Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/OR/IND/217083/2021
Compliance ID	125809427
Compliance Number(For Tracking)	EC/M/COMPLIANCE/125809427/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	29-04-2025
RO/SRO Name	ARTATRANA MISHRA
RO/SRO Email	jhk109@ifs.nic.in
State	ODISHA
RO/SRO Office Address	Integrated Regional Offices, Bhubaneswar
Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, ODISHA with Notification to Project Proponent.	

Dalmia cement
FUTURE TODAY

cement! sugar! refractories! power!

DCBL/MOEFCC/001/2025-26/024
April 29, 2025

Deputy Director General of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office (EZ),
A/3, Chandrasekharpur,
Bhubaneswar – 751 023

Sub: **Submission of six-monthly compliance report of the Environmental clearance for M/s Dalmia Cement Bharat Limited (Line 1 & 2), At/Po. – Rajgangpur, Dist. – Sundargarh, Odisha for the period October 2024 to March 2025.**

Ref: Environmental Clearance vide File No. J-11011/352/2005-IA. II (I) dated 05.04.2007.

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 M/s Dalmia Cement Bharat Limited (Line 1 & 2), At/Po. – Rajgangpur, Dist. – Sundargarh, Odisha for the period October 2024 to March 2025.

Thanking you,

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

Akmishra.

Ashok Kumar Mishra
Head - Environment

Encl: As above.

CC:
1. The Director, Impact Assessment Division, MoEF&CC, New Delhi.
2. The Member Secretary, CPCB, New Delhi.
3. The Member Secretary, OSPCB, Bhubaneswar, Odisha.

Half Yearly Compliance Report
2025
01 Jun(01 Oct - 31 Mar)

Acknowledgement

Proposal Name	Expansion of Clinker Production (1.20 to 2.90 MTPA) and Cement Plant (2.00 to 4.00 MTPA) at Rajgangpur, Sundargarh, Odisha by M/s Dalmia Cement Bharat Limited
Name of Entity / Corporate Office	Dalmia Cement (Bharat) Limited
Village(s)	N/A
District	SUNDARGARH

Proposal No.	IA/OR/IND/217083/2021
Plot / Survey / Khasra No.	N/A
State	ODISHA
MoEF File No.	J-11011/352/2005-IA.II(I)

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

Compliance Reporting Details

Reporting Year 2025

Remarks (if any)

Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

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

	Project Area as per EC Granted	Actual Project Area in Possession
Private	0	0
Revenue Land	91.95	91.95
Forest	0	0
Others	0	0
Total	91.95	91.95

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Clinker	Tons per Annum (TPA)	31/03/2028	2900000	2637076	3300000
2	Cement	Tons per Annum (TPA)	31/03/2028	4000000	3186973	4300000
3	WHRB	MW	31/03/2028	11	55292	11

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	1. The gaseous and particulate matter emissions from various units shall confirm to the standards prescribed by the Orissa State Pollution Control Board (OSPCB). At no time the particulate emissions shall exceed OSPCB limit. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit is shut down automatically.

PPs Submission: Complied The gaseous and particulate matter emissions from various units are well within the standards as prescribed by OSPCB. PCEs are provided with automated interlocking facilities. The monitored results of emissions are attached.	Date: 29/04/2025

2	AIR QUALITY MONITORING AND PRESERVATION	2. Continuous on-line monitoring system to monitor gaseous emission shall be controlled with in 50 mg/Nm3 by installing adequate air pollution control system. On-line monitoring data shall be submitted to the OSPCB and CPCB regularly.

PPs Submission: Complied CEMS have been installed to monitor the gaseous emissions and connected to the Board server, Online Data is submitted to SPCB and CPCB.	Date: 29/04/2025

3	AIR QUALITY MONITORING AND PRESERVATION	3. Ambient Air Quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emission shall be carried out regularly in consultation with OSPCB and report submitted to the OSPCB quarterly and to the ministry's Regional office at Bhubaneswar half -yearly. One ambient air quality monitoring station shall be installed in downwind direction.

PPs Submission: Complied The Ambient Air Quality as well as noise levels monitored are well within the stipulated standards and reports are submitted to the statutory body on a regular basis. The ambient AAQ station has been installed in downwind direction.	Date: 29/04/2025

4	AIR QUALITY MONITORING AND PRESERVATION	4. The company shall install adequate dust collection and extraction system to control fugitive dust emission at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. ESP to Cooler, cyclone & bag filter to kiln, CVRM and bag filters shall be provided in the coal mill and cement mills to control air emissions less than 50 mg/ Nm3. Jet pulse bag filters/ dust extraction system shall be provided to control fugitive emissions in raw material, coal handling & cement grinding areas. Dust suppression system at unloading

		hoppers, discharge gate of silos and totally closed operations for all belt conveyors & storage etc. shall be used. Raw materials shall store in closed roof sheds & clinker in silos.
PPs Submission: Complied Air pollution control measures and systems are adopted: a. Bag filters have been installed at various transfer points such as loading/ unloading areas. Raw materials are transported through closed conveyor belts. b. Cement grinding units are equipped with bag filters to control fugitive dust emissions. c. Road sweeping machines have been deployed for regular cleaning of roads. Internal roads are concreted, and truck mounted mist cannon has been deployed to control fugitive emissions. d. Clinker is stored in clinker silo and transported in rakes through hatch adopter system. e. Mist Cannon for dust suppressions been provided at raw material handling areas.		Date: 29/04/2025
5	AIR QUALITY MONITORING AND PRESERVATION	5. Asphalting/concerning of roads and water spray all around the coal stockpiles shall be carried out to control fugitive emissions.
PPs Submission: Complied Roads are mostly concreted and water fogging through mist cannon is done on the coal stockpiles to control fugitive dust.		Date: 29/04/2025
6	WATER QUALITY MONITORING AND PRESERVATION	6. Total water requirement from the Nakti nala and ground water source shall not exceed 5,788 m3/d including 785 m3/d respectively and prior permission for the drawl of ground water from the State water resources/Minor irrigation Deptt./CGWA shall be obtained. All the treated waste water shall be recycled and reused in the process, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic effluent treated in Sewage Treatment Plant (STP) shall be used for green belt development within the plant and colony area
PPs Submission: Complied a. The total water consumption does not exceed the permitted quantity. b. No ground water is used for industrial purposes. c. Wastewater generated is recycled and reused for dust suppression, green belt development and other low end uses. d. Domestic post treatment effluent is treated in the Sewage Treatment Plant.		Date: 29/04/2025
7	WASTE MANAGEMENT	7. All the cement dust collected from pollution control devices shall be recycled and reutilized in the process. Char from sponge iron plant of M/s. OCL shall be used as raw material in manufacturing cement and mixed with feed. Hazardous waste viz. Used oil from gear boxes and automotive batteries, etc shall be properly stored in a designated area and sold to authorized recyclers/ re processors.
PPs Submission: Complied a. Dust collected from pollution control devices is re-utilized back in the process. b. Char is used as raw material based on availability. c. Used oil and batteries are stored at designated places before being disposed off to authorized recyclers/re-processors.		Date: 29/04/2025
8	WATER QUALITY MONITORING AND PRESERVATION	8. The company must harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
PPs Submission: Complied Surface Run Off is collected and stored in an earthen reservoir to facilitate recharge of ground water and the water stored is being reused for various activities thereby reducing fresh water requirement.		Date: 29/04/2025
9	GREENBELT	9. Green belt shall be developed in at least 28.0 ha out of total 91.15 ha land in consultation with the local DFO as per the CPCB

		guidelines.
PPs Submission: Complied Green cover has been developed in and around the plant premises. Gap filling has been done this year with local species plantation.		Date: 29/04/2025
10	Corporate Environmental Responsibility	10. The company shall undertake eco- development measures including community welfare measures in the project area.
PPs Submission: Complied We are continuously engaging with the local community and surrounding villages through our CSR team for community development programs.		Date: 29/04/2025
11	Corporate Environmental Responsibility	11. All the recommendation mentioned in the Charter on the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.
PPs Submission: Complied All the CREP recommendations as per the Charter are being followed.		Date: 29/04/2025
12	WASTE MANAGEMENT	12. High calorific hazardous waste shall be used as fuel in the cement kiln. Accordingly, provision to be made in the kiln.
PPs Submission: Complied High calorific hazardous waste received from various industries PAN India is used as fuel in cement kiln as alternate fuel		Date: 29/04/2025
13	Statutory compliance	13. Prior permission from the State Forest Department shall be obtained regarding likely impact of proposed expansion on the reserve forest viz. Gudiali RF (3km), Tunmura RF (6.5 km) Chudia RF (6.5 km) and Hathidhara R.F. (4 km) and recommendations/ suggestion, if any shall be implemented in a time bound manner.
PPs Submission: Complied No such impact is envisaged due to proposed expansion as all raw material transportation is being done through closed circuit conveyor belts from our captive mines to cement plant. Maximum transportation is being done through railway rakes.		Date: 29/04/2025

General Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	1. The project authority must adhere to the stipulation made by Orissa State Pollution Control Board and State Government.
PPs Submission: Complied Noted and will be strictly adhered to from time to time.		Date: 29/04/2025
2	MISCELLANEOUS	2. No expansion or modification of the plant should be carried out without prior approval of this Ministry.
PPs Submission: Complied Noted and approval from the Ministry will be obtained prior to expansion or modification of the plant.		Date: 29/04/2025
3	AIR QUALITY MONITORING AND	3. Adequate number of ambient air quality- monitoring stations shall be established in the downward direction as well as where

	PRESERVATION	maximum ground level concentration of SO2 and NOX are anticipated in consultation with the OSPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including Regional Office at Bhubaneswar and OSPCB once in six months.
PPs Submission: Complied Ambient air quality monitoring stations have been installed covering upwind and downwind directions in consultation with OSPCB and monitored data on ambient air quality and stack emission is submitted to OSPCB monthly and Regional Office of Ministry every six months.		Date: 29/04/2025
4	WATER QUALITY MONITORING AND PRESERVATION	4. Industrial wastewater shall be properly collected, treated so as to confirm to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. The treated waste water shall be recycled in the plant as well as utilization for plantation purposes.
PPs Submission: Complied Wastewater generated in the plant is re-used in the plant and utilized for plantation post treatment.		Date: 29/04/2025
5	WASTE MANAGEMENT	5. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management and Handling) Rules, 2003. Authorization from the OSPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.
PPs Submission: Complied Hazardous Wastes are being handled, stored, transported and disposed off as per HOWM Rules, 2016 and amendments thereof. Authorization from OSPCB has been obtained in this regard.		Date: 29/04/2025
6	Noise Monitoring & Prevention	6. The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under EPA Rules, 1986 viz. 75 dBA (day time) and 70 dBA (night time).
PPs Submission: Complied The overall noise levels in and around the plant area are within the prescribed limit. Acoustic hoods, silencers and enclosures have been provided in high noise areas. The monitored data are enclosed in the monitoring report attached.		Date: 29/04/2025
7	MISCELLANEOUS	7. The project proponent shall comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment / Environmental management Plan.
PPs Submission: Complied All the environmental protection measures and safeguards recommended in EIA/EMP are being complied with		Date: 29/04/2025
8	MISCELLANEOUS	8. As proposed in EIA / EMP, Rs.31.82 Crores and Rs.2.64 Crores earmarked toward the capital cost and recurring the expenditure / annum for environmental protection measures shall be used judiciously to implement the conditions as well as Ministry of Environment and forests as well as the State Government. The funds so provided shall not be diverted for any other purposes.

PPs Submission: Complied The funds earmarked for environmental protection have been utilized for implementation of protection measures and have not been diverted for any other purpose.		Date: 29/04/2025
9	MISCELLANEOUS	9. The Regional Office of this Ministry at Bhubaneswar / Central Pollution Control Board / OSPCB shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly
PPs Submission: Complied The six-monthly compliance reports including the monitored data are submitted to the statutory bodies periodically.		Date: 29/04/2025
10	Statutory compliance	10. The project authorities should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the state pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http:/envfor.nic.in This shall be advertised within seven days from the date of issues of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.
PPs Submission: Complied The grant of Environmental Clearance has been published in two local newspapers i.e. The Samaj (Odia) and The New Indian Express (English) dated 11.04.2007		Date: 29/04/2025
11	MISCELLANEOUS	11. The project Authorities shall inform the Regional Office as well as The Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
PPs Submission: Complied Noted and date of financial closure will be intimated.		Date: 29/04/2025

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	The detailed environment monitoring report for the period October 2024 to March 2025 is attached as additional attachment.

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

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

OCTOBER 2024 – MARCH 2025

FOR

DALMIA CEMENT BHARAT LIMITED

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

Prepared By:

Cleenviron Private Limited

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

Tele: 0661 – 2475746

Email:cleenviron@gmail.com

1. DATA ANALYSIS

1.1 Micro-meteorological Study:

1.1.1 Wind Speed & Wind Direction

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

1.1.2 Temperature

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

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

1.1.3 Rainfall

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

Table No: 1.1

A SUMMARY OF THE MICRO-METEOROLOGICAL DATA

Project Site : DALMIA DSP UNIT
Location : CCR BUILDING

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

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

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

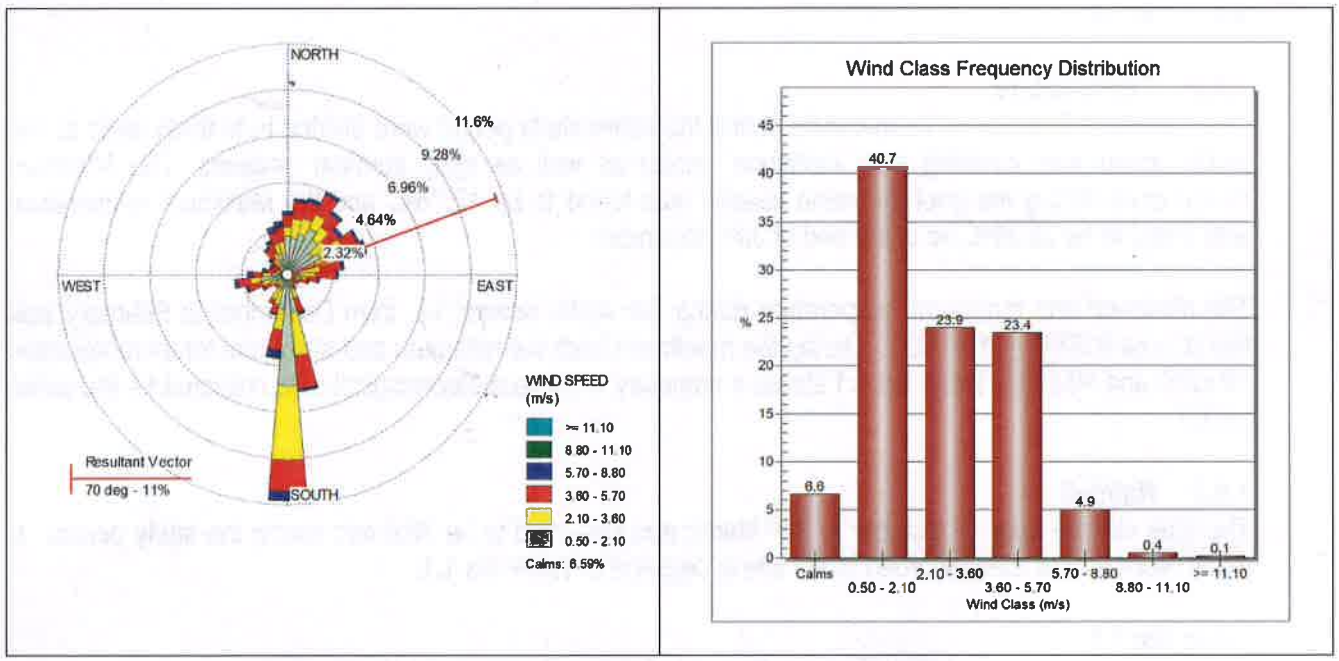

Figure No: 1.2 **Wind Rose Diagram from 06 – 14 Hours**

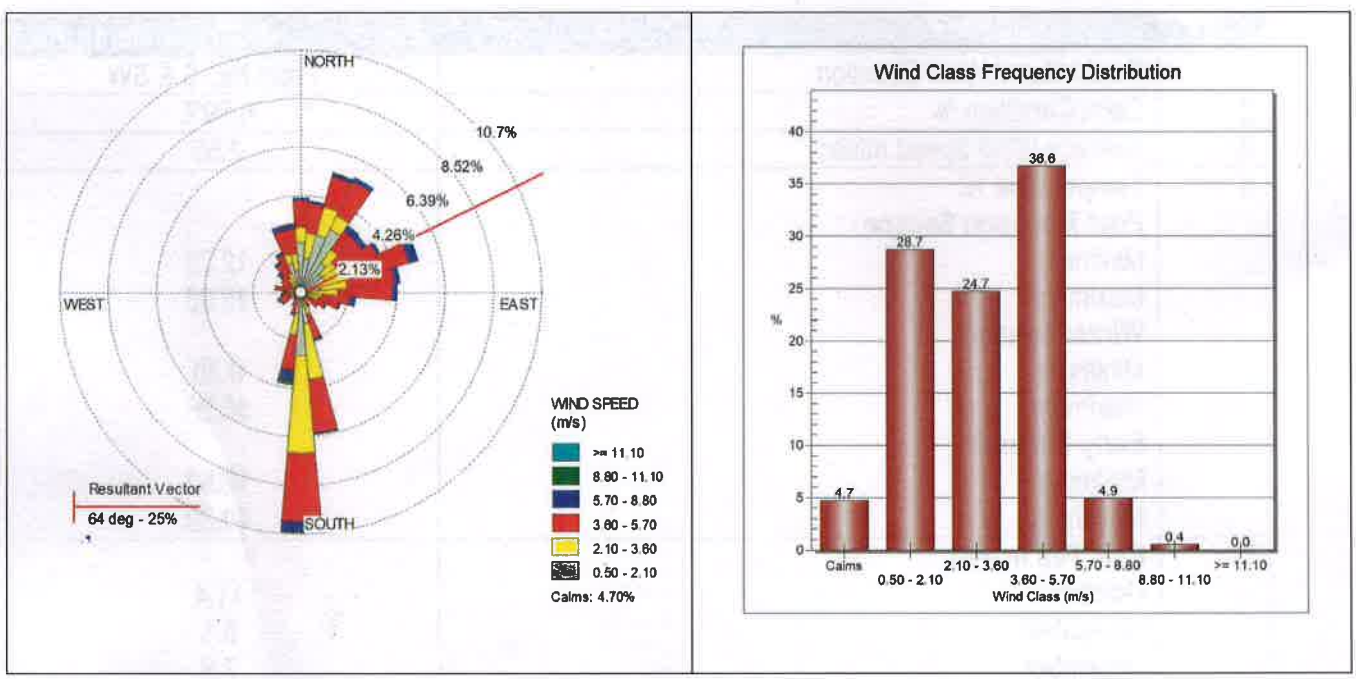

Figure No: 1.3 **Wind Rose Diagram from 14 – 22 Hours**

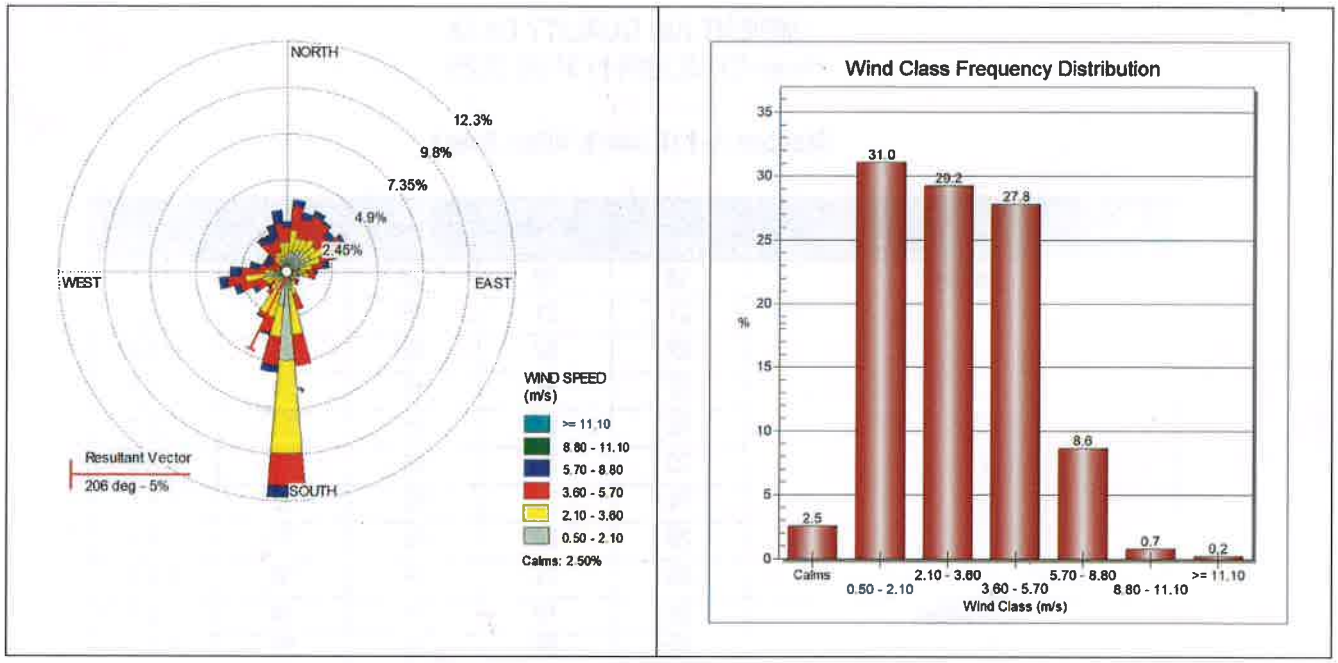

Figure No: 1.4 **Wind Rose Diagram from 22 – 06 Hours**

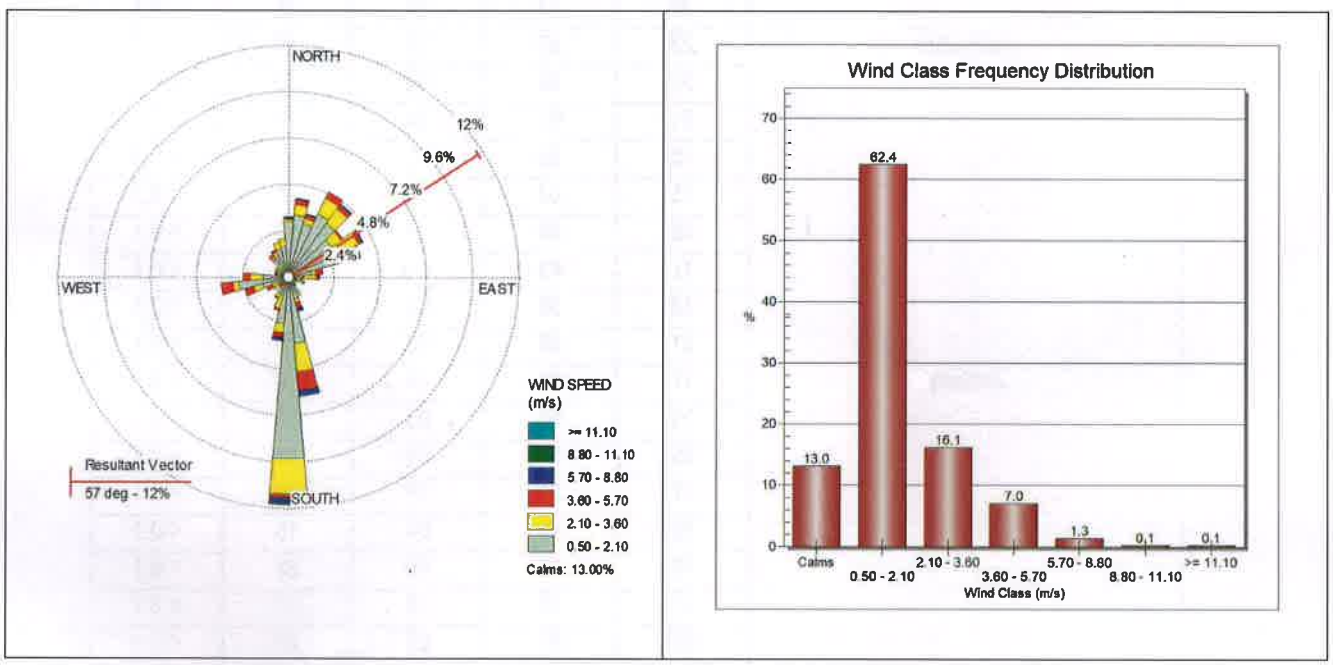

Table No: 1

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

Station: A-1 (Konark Vihar Area)

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

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

Table No: 2

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

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

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

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

Table No: 3

AMBIENT AIR QUALITY DATA
From 01.10.2024 to 31.03.2025

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

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

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

Table No: 4

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

Station: A-4 (Near Refractory Main Gate)

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

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

Table No: 5

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

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

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

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

Table No: 6

AMBIENT AIR QUALITY DATA
From 01.10.2024 to 31.03.2025

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

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

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

Table No 7:

STACK EMISSION MONITORING RESULTS

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

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

Table No 8:

GROUND WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

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

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

Table No 9:

GROUND WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

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

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

Table No 10:

GROUND WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

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

Table No 11:

GROUND WATER QUALITY RESULT FOR THE MONTH OFJANUARY 2025

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

Table No 12:

GROUND WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

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

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

Table No 13:

GROUND WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

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

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

Table No 14:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

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

Table No 15:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

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

Table No 16:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

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

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

Table No 17:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2025

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

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

Table No 18:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

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

Table No 19:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

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

Table No 20:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

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

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

Table No 21:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

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

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

Table No 22:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

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

Table No 23:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2025

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

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

Table No 24:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

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

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

Table No 25:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

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

Table No 26:

26.1 EFFLUENT WATER QUALITY RESULT OF ETP INLET

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

26.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET

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

Table No 27 :

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

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

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

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

Table No 28 :

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

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

Table No 29:

EFFLUENT WATER QUALITY RESULT OF STP OUTLET (DSP UNIT)

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

Table No 30:

SOIL QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

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

Table No 31:

SOIL QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

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

Table No 32:

SOIL QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

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

Table No 33:

SOIL QUALITY RESULT FOR THE MONTH OF JANUARY 2025

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

Table No 34:

SOIL QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

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

Table No 35:

SOIL QUALITY RESULT FOR THE MONTH OF MARCH 2025

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

Table No: 36:

NOISE LEVEL MONITORING DATA

From 01.10.2024 to 31.03.2025

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

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

***