

Your (**Environment Clearance**) application has been **Submitted** with following details

Proposal No	IA/OR/IND/217083/2021
Compliance ID	71691511
Compliance Number(For Tracking)	EC/M/COMPLIANCE/71691511/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	28-05-2024
IRO Name	ARTATRANA MISHRA
IRO Email	jhk109@ifs.nic.in
State	ODISHA
IRO Office Address	Integrated Regional Offices, Bhubaneswar
Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, ODISHA with Notification to Project Proponent.	

DCBL/MOEFCC/001/2024-032
May 28, 2024

To,
**The Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office (EZ),
A/3, Chandrasekharapur,
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-2023 to March-2024.

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-2023 to March-2024.

Thanking you,

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



**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, OSPCCB, Bhubaneswar, Odisha.

Half Yearly Compliance Report**2024****01 Jun(01 Oct - 31 Mar)****Acknowledgment**

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	Category	Industrial Projects - 2
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	ODISHA	Entity's PAN	NA
MoEF File No.	J-11011/352/2005-IA.II(I)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year	2024
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	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Cement	Tons per Annum (TPA)	31/03/2025	4000000	3259171	4000000
2	WHRB	MW	31/03/2025	11	40001	11
3	Clinker	Tons per Annum (TPA)	31/03/2025	2900000	1377691	2900000

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.
<p>PPs Submission: Complied</p> <p>The gaseous and particulate matter emissions from various units conform to the standards as prescribed by OSPCB. The monitored results are attached. Interlocking facility has been provided in the PCE such that in case of failure, the unit will shut down automatically.</p>		Date: 28/05/2024
2	AIR QUALITY MONITORING AND PRESERVATION	2. Continuous on-line monitoring system to monitor gaseous emission shall be controlled with in 50 mg/Nm ³ by installing adequate air pollution control system. On-line monitoring data shall be submitted to the OSPCB and CPCB regularly.
<p>PPs Submission: Complied</p> <p>The gaseous emissions are being monitored by an online continuous emission monitoring system (CEMS) installed and monitored data is being transmitted to the Board servers. Online monitoring data is being transmitted to the Board server. Reports are submitted to OSPCB monthly and to Regional Office, MoEF&CC every 6 months.</p>		Date: 28/05/2024
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.
<p>PPs Submission: Complied</p> <p>The Ambient Air Quality Monitoring data as well as noise levels are well within the stipulated standards. Reports are submitted to the statutory body regularly. One ambient air quality monitoring station has been installed in downwind direction.</p>		Date: 28/05/2024
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/ Nm ³ . 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.
<p>PPs Submission: Complied</p> <p>Air pollution control measures & systems are adopted: a. Dust collection extraction system (Bag filters) have been installed and maintained at various transfer points such as loading/ unloading areas. Raw materials are transported through closed conveyor belts. b. Coal handling, cement grinding units are equipped with bag filters to control fugitive dust emissions. c. Bag house have been installed for CVRM & Coal mill to maintain stack emission as per standard. d. Road sweeping machines are deployed for regular cleaning of roads. Internal roads are concreted and water sprinkling on the roads are also carried out. e. Belt conveyors are thoroughly hood covered. f. Clinker is stored in clinker silo & transported in rakes through hatch adopter system. g. Raw material is covered with tarpaulin. h. Water sprinkling for dust suppression is done at raw material handling areas.</p>		Date: 28/05/2024
5	Corporate Environmental Responsibility	11. All the recommendation mentioned in the Charter on the Corporate Responsibility for Environmental Protection (CREP) shall be strictly followed.
<p>PPs Submission: Complied</p> <p>All the CREP recommendations as per the Charter are adhered to.</p>		Date: 28/05/2024
6	WASTE MANAGEMENT	12. High calorific hazardous waste shall be used as fuel in the cement kiln. Accordingly, provision to be made in the kiln.
<p>PPs Submission: Complied</p> <p>High calorific hazardous waste is used as fuel in cement kiln as alternate fuel.</p>		Date: 28/05/2024
7	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.
<p>PPs Submission: Complied</p> <p>All raw material transportation is being done through closed circuit conveyor belts from mines to cement plant. Maximum transportation is being done through railway rakes. Hence, no such impact is envisaged.</p>		Date: 28/05/2024
8	AIR QUALITY MONITORING AND PRESERVATION	5. Asphaltting/concerning of roads and water spray all around the coal stockpiles shall be carried out to control fugitive emissions.
<p>PPs Submission: Complied</p> <p>Roads are mostly concreted and water spraying is done on the coal stockpiles to control fugitive dust emissions.</p>		Date: 28/05/2024
9	WATER QUALITY MONITORING AND PRESERVATION	6. Total water requirement from the Nakti nala and ground water source shall not exceed 5,788 m ³ /d including 785 m ³ /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
<p>PPs Submission: Complied</p> <p>• The total water consumption is well within the permitted quantity. • No ground water is used for industrial purposes. • Wastewater generated after treatment is recycled and reused for dust suppression, green belt development and other low end uses. • Domestic sewage is treated in the STP.</p>		<p>Date: 28/05/2024</p>
10	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.
<p>PPs Submission: Complied</p> <p>a.) Dust collected from pollution control devices is recycled back in the process. b.) Char is used as raw material, as per availability. c.) Used oil & batteries are stored at designated places before being disposed off to authorized recyclers/re-processors</p>		<p>Date: 28/05/2024</p>
11	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.
<p>PPs Submission: Complied</p> <p>Rainwater from roof tops and storm water drains is collected and stored in an earthen reservoir to facilitate recharge of ground water and the water is being reused for various activities within the plant premises.</p>		<p>Date: 28/05/2024</p>
12	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.
<p>PPs Submission: Complied</p> <p>Green cover has been developed in and around the plant premises. We have planted around 14251 saplings in FY 2023-24.</p>		<p>Date: 28/05/2024</p>
13	Corporate Environmental Responsibility	10. The company shall undertake eco- development measures including community welfare measures in the project area.
<p>PPs Submission: Complied</p> <p>We are continuously engaging with the community through our CSR team for community development programs.</p>		<p>Date: 28/05/2024</p>
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.
<p>PPs Submission: Complied</p> <p>All stipulations made by OSPCB and State Govt. are being strictly adhered to.</p>		<p>Date: 28/05/2024</p>
2	MISCELLANEOUS	2. No expansion or modification of the plant should be carried out without prior approval of this Ministry.

<p>PPs Submission: Complied No expansion or modification of the plant will be carried out without prior approval of the Ministry.</p>		<p>Date: 28/05/2024</p>
3	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>3. Adequate number of ambient air quality- monitoring stations shall be established in the downward direction as well as where 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.</p>
<p>PPs Submission: Complied Four numbers of ambient air quality monitoring stations have been installed covering upwind and downwind directions in consultation with OSPCB. Data is being transmitted to the Board server on a continuous basis.</p>		<p>Date: 28/05/2024</p>
4	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>4. Industrial wastewater shall be properly collected, treated so as to conform 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.</p>
<p>PPs Submission: Complied Wastewater generated in the plant is treated in the effluent treatment plant (ETP) and the treated water conforms to the prescribed limits as specified by OSPCB in the consent order. The treated water is utilized in the plant for machineries cooling, dust suppression on roads & plantation purposes.</p>		<p>Date: 28/05/2024</p>
5	<p>WASTE MANAGEMENT</p>	<p>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.</p>
<p>PPs Submission: Complied The Hazardous Wastes are being handled and disposed off as per HOWM Rules, 2016 and amendments thereof.</p>		<p>Date: 28/05/2024</p>
6	<p>Noise Monitoring & Prevention</p>	<p>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 conform to the standards prescribed under EPA Rules, 1986 viz. 75 dBA (day time) and 70 dBA (night time).</p>
<p>PPs Submission: Complied The overall noise levels in and around the plant area are within the prescribed limit. The data conforming to the same are enclosed in the monitoring report.</p>		<p>Date: 28/05/2024</p>
7	<p>MISCELLANEOUS</p>	<p>7. The project proponent shall comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment / Environmental management Plan.</p>
<p>PPs Submission: Complied All the environmental protection measures and safeguards as recommended in EIA/EMP are being complied with.</p>		<p>Date: 28/05/2024</p>

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 the funds have not been diverted for any other purpose.		Date: 28/05/2024
9	MISCELLANEOUS	9. The Regional Office of this Ministry at Bhubaneswar / Central Pollution Control Board / OSPCCB 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 along with the monitored data are submitted to the statutory bodies regularly within the stipulated timeframe.		Date: 28/05/2024
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: 28/05/2024
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 The Regional Office as well as the Ministry were intimated regarding the project approval and date of commencing the land development work.		Date: 28/05/2024
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		The detailed environment monitoring report for the period October 2023 to March 2024 is attached as additional attachment.

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

OCTOBER 2023 – MARCH 2024

FOR

DALMIA CEMENT BHARAT LIMITED

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



Prepared By:

Cleenviron Private Limited

D-124, KOELNAGAR, ROURKELA, ODISHA

Tele fax: 0661 – 2475746

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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 4395 no. of data are recorded by the instrument and after interpretation of the collected data it was found that Calm condition prevailed over 6.81%, while considering the 24 hourly data. 6.32% calm condition prevailed from morning 6 hrs to 14hrs for the entire study period, 4.41% calm condition prevailed from 14hrs to 22hrs and 9.06% calm condition prevailed from 22hrs to 06hrs. The predominant wind directions were from SE with average wind speed 2.37 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 seasons and early summer season also. The Minimum temperature during the post-monsoon season was found to be 14.45°C and the Maximum temperature was found to be 36.24°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 9.84°C and 33.56°C. During the month of March the minimum and maximum temperature was found to be 10.98°C and 37.45°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 248.8 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 : Lanjiberna Limestone & Dolomite Mines
Location : Magazine Hill Top

SI No	Parameters	From October – March 2024
1	Predominant Wind Direction	From South - East
2	Calm Condition %	6.81%
3	Average Wind Speed m/sec	2.37
4	Temperature °C	
	Post-monsoon Season	
	Minimum	14.45
	Maximum	36.24
	Winter Season	
	Minimum	9.84
	Maximum	33.56
	Early Summer Season	
	Minimum	10.98
	Maximum	37.45
5	Rain Fall in mm	
	October	82.2
	November	35.0
	December	47.6

SI No	Parameters	From October – March 2024
	January	14.8
	February	18.6
	March	50.6
	Total	248.8

Figure No: 1.2 Wind Rose Diagram for 24 Hours

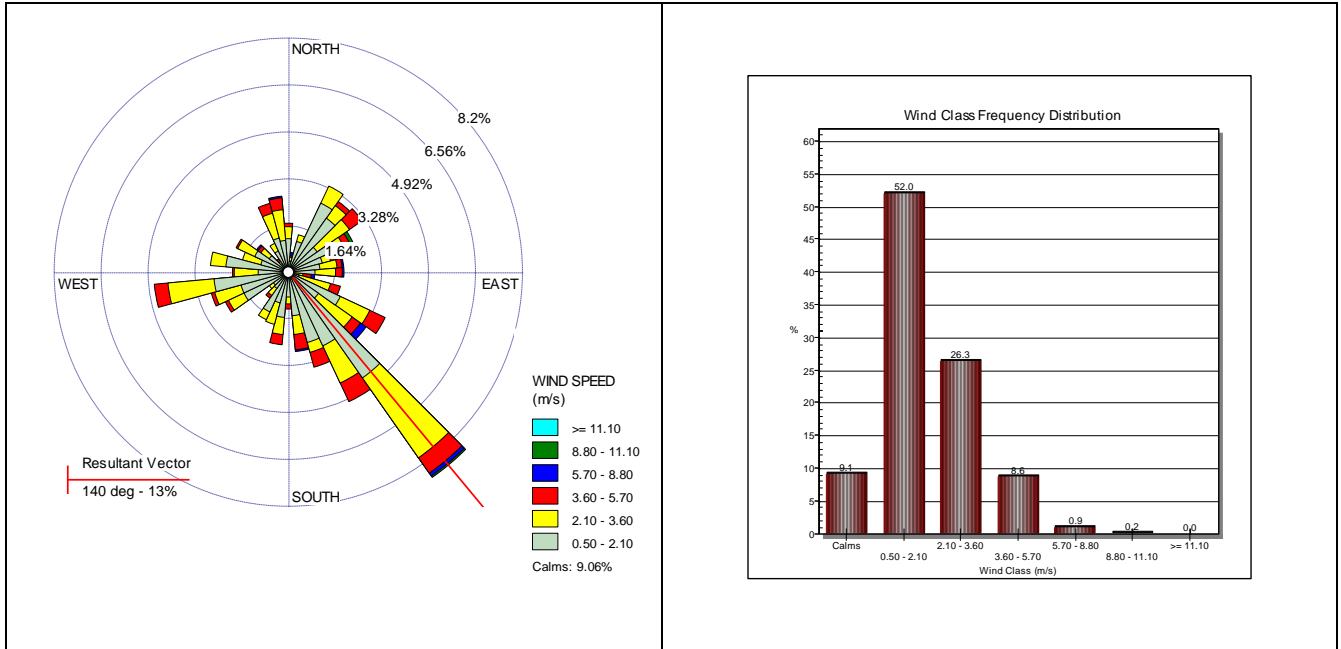


Figure No: 1.2 Wind Rose Diagram from 06 – 14 Hours

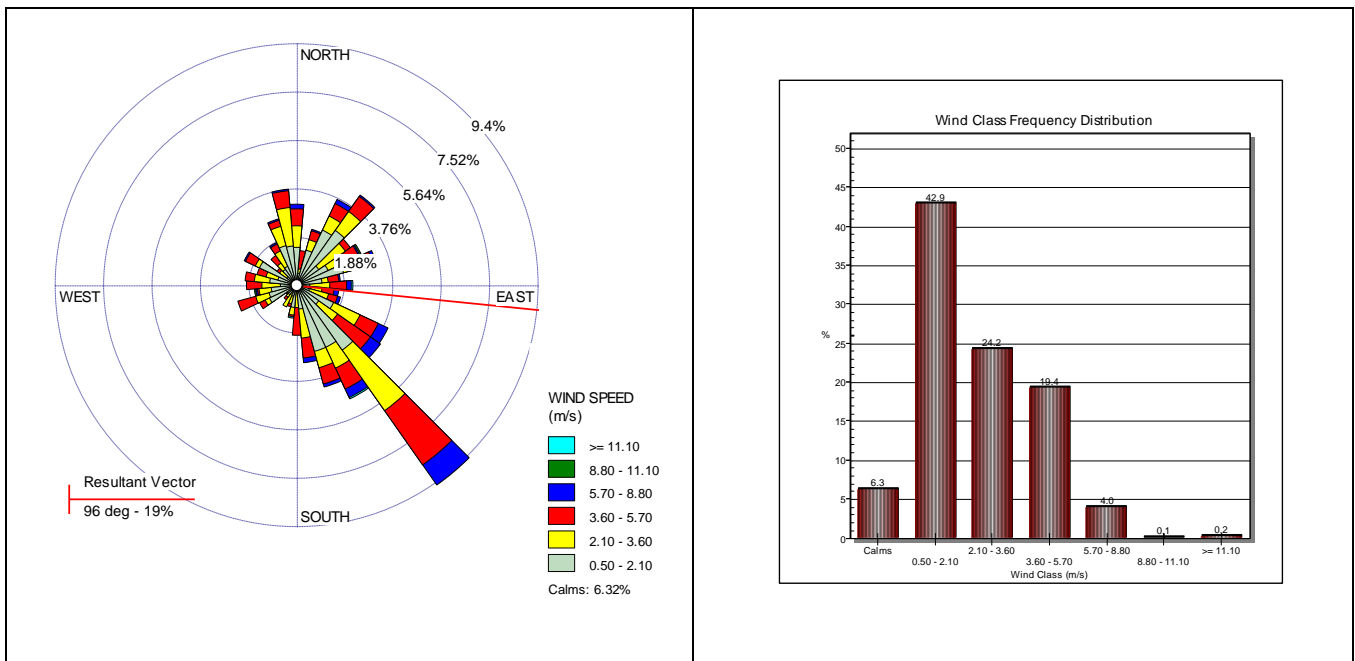


Figure No: 1.3 Wind Rose Diagram from 14 – 22 Hours

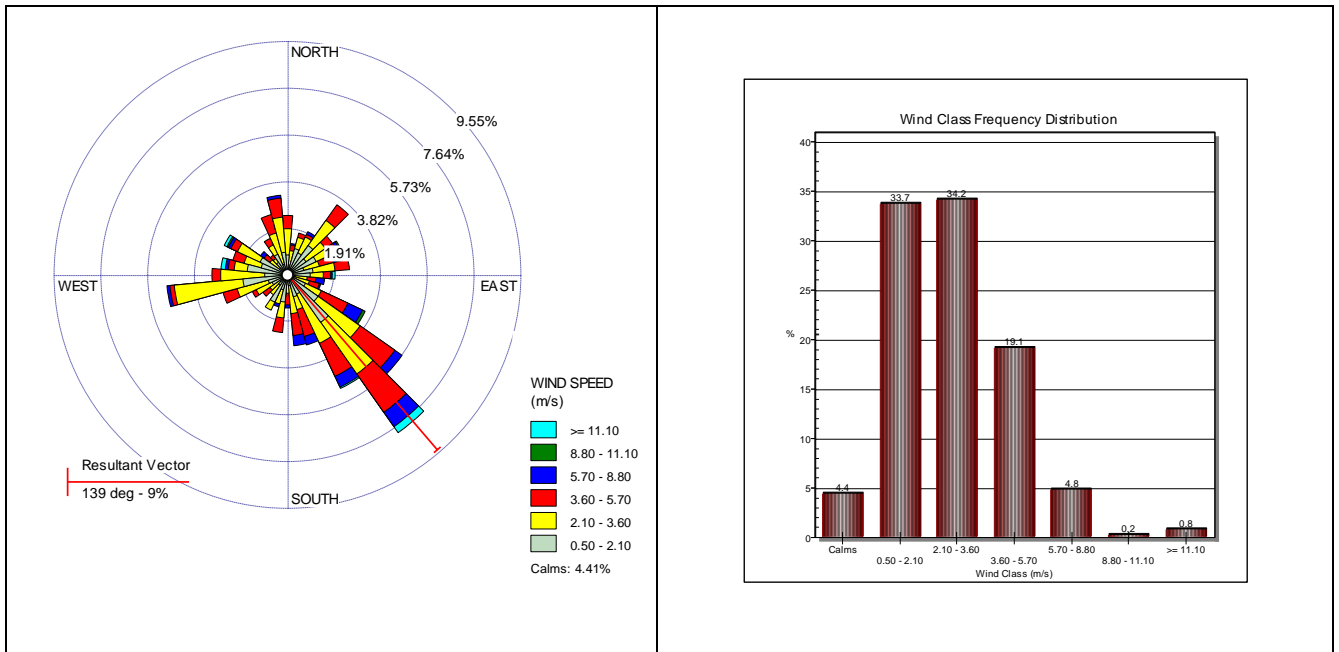


Figure No: 1.4 Wind Rose Diagram from 22 – 06 Hours

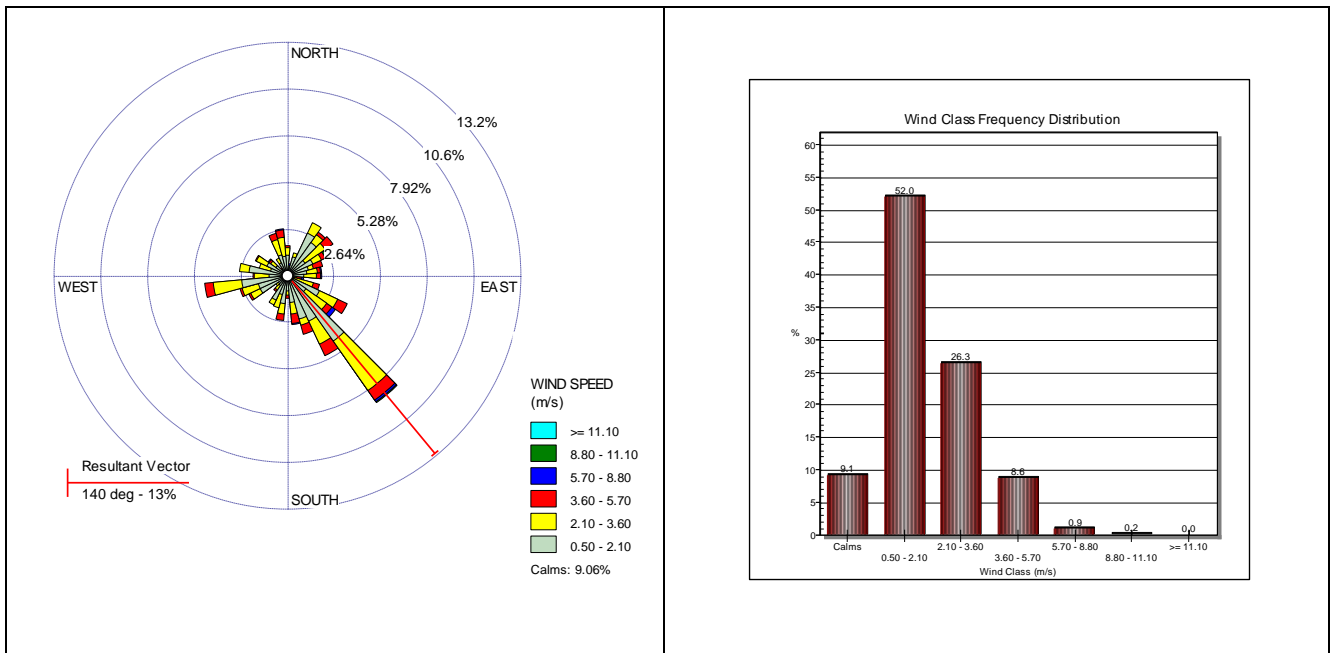


Table No: 1

AMBIENT AIR QUALITY DATA
 From 01.10.2023 to 31.03.2024
Station: A-1 (Konark Vihar Area)

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
October	10	23	04	15	< 0.1
	11	33	08	21	< 0.1
	27	69	09	21	< 0.1
	21	62	12	31	< 0.1
	22	73	07	30	< 0.1
	23	68	07	30	< 0.1
	29	70	06	21	< 0.1
	26	74	06	17	< 0.1
	19	55	06	22	< 0.1
November	21	62	06	20	< 0.1
	23	66	06	18	< 0.1
	23	63	< 3	12	< 0.1
	22	69	06	18	< 0.1
	24	68	04	14	< 0.1
	20	60	03	17	< 0.1
	25	70	05	17	< 0.1
	26	73	08	16	< 0.1
December	17	49	07	27	< 0.1
	16	40	04	22	< 0.1
	20	62	07	23	< 0.1
	24	75	06	20	< 0.1
	26	72	04	15	< 0.1
	24	71	04	24	< 0.1
	20	67	06	23	< 0.1
	22	70	05	25	< 0.1
January	19	55	08	25	< 0.1
	28	76	04	16	< 0.1
	24	69	06	29	< 0.1
	26	72	05	20	< 0.1
	22	63	03	31	< 0.1
	24	70	07	14	< 0.1
	23	65	04	12	< 0.1
	21	62	08	25	< 0.1
February	20	58	05	22	< 0.1
	23	66	06	19	< 0.1
	26	69	04	13	< 0.1
	24	73	07	28	< 0.1
	23	67	06	30	< 0.1
	22	64	08	22	< 0.1
	20	62	05	24	< 0.1
	25	72	03	25	< 0.1
27	71	09	29	< 0.1	
21	60	06	26	< 0.1	

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
March	34	84	05	17	< 0.1
	24	70	05	32	< 0.1
	26	73	06	25	< 0.1
	27	75	06	20	< 0.1
	24	70	06	21	< 0.1
	23	67	03	12	< 0.1
	13	38	09	29	< 0.1
	25	72	04	22	< 0.1
	28	76	07	28	< 0.1

Table No: 2

AMBIENT AIR QUALITY DATA
From 01.10.2023 to 31.03.2024
Station: A-2 (General Store Area, Line – 1)

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
October	12	30	09	22	< 0.1
	24	69	07	20	< 0.1
	22	67	11	39	< 0.1
	28	76	04	22	< 0.1
	28	79	06	21	< 0.1
	27	77	04	18	< 0.1
	25	76	07	35	< 0.1
	22	67	09	30	< 0.1
	28	77	06	26	< 0.1
November	24	70	04	16	< 0.1
	23	68	08	20	< 0.1
	24	70	04	22	< 0.1
	26	75	08	21	< 0.1
	26	70	04	16	< 0.1
	27	73	06	23	< 0.1
	25	72	05	24	< 0.1
	22	60	03	18	< 0.1
December	19	60	07	29	< 0.1
	25	72	05	20	< 0.1
	23	67	08	28	< 0.1
	24	70	03	11	< 0.1
	23	70	07	24	< 0.1
	21	67	07	22	< 0.1
	26	71	06	23	< 0.1
	20	62	07	25	< 0.1
	22	63	04	25	< 0.1
January	22	62	03	20	< 0.1
	26	70	06	16	< 0.1
	25	72	04	28	< 0.1
	23	67	06	32	< 0.1
	24	73	05	18	< 0.1

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	26	75	08	13	< 0.1
	26	74	09	29	< 0.1
	24	69	05	21	< 0.1
	25	71	07	23	< 0.1
February	26	70	05	17	< 0.1
	21	68	04	24	< 0.1
	19	58	07	21	< 0.1
	25	73	08	29	< 0.1
	23	71	06	35	< 0.1
	27	75	09	28	< 0.1
	22	62	09	30	< 0.1
March	24	73	03	23	< 0.1
	26	71	03	20	< 0.1
	24	70	08	26	< 0.1
	20	62	04	22	< 0.1
	19	56	04	15	< 0.1
	22	68	03	10	< 0.1
	13	37	06	27	< 0.1
	19	63	07	24	< 0.1
21	65	05	29	< 0.1	
25	74	09	33	< 0.1	

Table No: 3

AMBIENT AIR QUALITY DATA
From 01.10.2023 to 31.03.2024
Station: A-3 (Material Gate, DSP Unit)

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
October	13	38	03	28	< 0.1
	23	64	03	19	< 0.1
	22	71	10	30	< 0.1
	32	81	08	29	< 0.1
	24	68	05	18	< 0.1
	23	70	06	29	< 0.1
	25	79	05	23	< 0.1
	29	82	05	16	< 0.1
	17	52	04	16	< 0.1
November	23	66	05	16	< 0.1
	25	71	08	25	< 0.1
	28	82	05	07	< 0.1
	20	63	05	30	< 0.1
	26	75	07	22	< 0.1
	21	65	05	28	< 0.1
	24	68	06	23	< 0.1
24	69	09	24	< 0.1	
December	17	54	08	27	< 0.1
	27	76	08	22	< 0.1

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	23	66	06	20	< 0.1
	27	79	08	22	< 0.1
	23	61	07	26	< 0.1
	24	71	05	24	< 0.1
	28	77	09	23	< 0.1
	25	73	10	25	< 0.1
	26	70	04	15	< 0.1
January	25	72	06	21	< 0.1
	29	82	04	16	< 0.1
	27	77	03	21	< 0.1
	28	80	07	24	< 0.1
	27	78	08	21	< 0.1
	27	79	06	23	< 0.1
	28	80	10	32	< 0.1
February	26	75	07	19	< 0.1
	28	81	05	20	< 0.1
	29	80	10	31	< 0.1
	28	84	09	34	< 0.1
	27	72	08	20	< 0.1
	24	70	11	26	< 0.1
	26	74	06	22	< 0.1
March	25	71	05	25	< 0.1
	25	72	06	20	< 0.1
	23	68	04	23	< 0.1
	28	79	03	19	< 0.1
	27	77	04	22	< 0.1
	23	67	06	20	< 0.1
	25	71	03	22	< 0.1
25	72	05	18	< 0.1	
	29	80	07	25	< 0.1
	25	73	06	20	< 0.1
	26	78	08	24	< 0.1
	24	75	09	20	< 0.1

Table No: 4

AMBIENT AIR QUALITY DATA
From 01.10.2023 to 31.03.2024
Station: A-4 (Near Refractory Main Gate)

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
October	16	43	05	20	< 0.1
	22	68	04	16	< 0.1
	28	80	06	24	< 0.1
	28	79	06	19	< 0.1
	26	78	04	29	< 0.1
	25	72	07	22	< 0.1
	25	69	03	11	< 0.1

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
	24	71	04	16	< 0.1
	26	78	07	32	< 0.1
November	24	67	06	22	< 0.1
	24	72	07	21	< 0.1
	25	73	06	20	< 0.1
	24	68	04	22	< 0.1
	23	63	08	29	< 0.1
	24	78	04	14	< 0.1
	26	75	09	24	< 0.1
	25	70	03	24	< 0.1
December	16	51	05	18	< 0.1
	28	73	04	26	< 0.1
	25	70	08	28	< 0.1
	23	70	05	31	< 0.1
	16	50	04	16	< 0.1
	22	69	03	21	< 0.1
	25	70	05	23	< 0.1
	20	62	06	22	< 0.1
	21	64	07	24	< 0.1
January	23	67	07	20	< 0.1
	27	75	08	26	< 0.1
	26	74	04	35	< 0.1
	22	60	03	28	< 0.1
	24	70	07	17	< 0.1
	23	66	05	17	< 0.1
	24	68	06	21	< 0.1
	25	71	07	23	< 0.1
	24	72	05	27	< 0.1
February	26	75	07	24	< 0.1
	23	68	06	27	< 0.1
	25	69	03	11	< 0.1
	22	65	04	20	< 0.1
	24	71	05	22	< 0.1
	27	76	08	25	< 0.1
	21	68	06	23	< 0.1
	28	74	04	21	< 0.1
March	28	78	06	18	< 0.1
	29	82	05	30	< 0.1
	26	74	08	36	< 0.1
	27	77	04	18	< 0.1
	21	64	04	14	< 0.1
	26	70	08	11	< 0.1
	23	65	07	25	< 0.1
	25	72	03	28	< 0.1
	22	68	06	22	< 0.1

Table No: 5

AMBIENT AIR QUALITY DATA
 From 01.10.2023 to 29.02.2024
Station: A-5 (Pay Loader Garage Area, Line – 1)

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
October	13	40	08	33	< 0.1
	25	75	05	19	< 0.1
	29	78	06	32	< 0.1
	16	49	06	24	< 0.1
	16	55	03	16	< 0.1
	27	73	05	14	< 0.1
	29	78	07	12	< 0.1
	18	62	03	10	< 0.1
	22	68	05	27	< 0.1
November	22	64	07	14	< 0.1
	22	65	03	25	< 0.1
	26	74	03	29	< 0.1
	21	67	05	22	< 0.1
	24	71	09	30	< 0.1
	28	76	04	23	< 0.1
	23	68	06	26	< 0.1
	25	72	06	15	< 0.1
December	23	67	06	15	< 0.1
	22	68	05	18	< 0.1
	29	79	09	27	< 0.1
	22	63	11	33	< 0.1
	22	68	08	28	< 0.1
	25	73	06	22	< 0.1
	26	75	07	24	< 0.1
	24	72	10	20	< 0.1
	24	72	04	23	< 0.1
January	24	68	02	15	< 0.1
	28	79	05	20	< 0.1
	27	77	06	25	< 0.1
	25	71	07	21	< 0.1
	25	70	04	18	< 0.1
	26	76	03	12	< 0.1
	27	80	09	28	< 0.1
	24	69	05	17	< 0.1
	26	75	07	25	< 0.1
February	26	77	07	26	< 0.1
	25	72	06	31	< 0.1
	22	68	05	27	< 0.1
	20	62	08	24	< 0.1
	27	71	08	26	< 0.1
	23	70	04	28	< 0.1
	24	70	07	31	< 0.1
	25	74	03	16	< 0.1

Table No: 6

AMBIENT AIR QUALITY DATA
 From 01.03.2023 to 31.03.2024
Station: A-5 (B. G Loco Gate, Line – 1)

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
March	25	73	03	13	< 0.1
	28	79	06	29	< 0.1
	26	76	03	24	< 0.1
	26	71	07	21	< 0.1
	23	75	08	23	< 0.1
	24	77	09	31	< 0.1
	28	78	07	23	< 0.1
	27	74	05	25	< 0.1
	27	74	05	26	< 0.1

Table No: 7

AMBIENT AIR QUALITY DATA
 From 01.10.2023 to 31.03.2024
Station: A-6 (Workshop Area, Line – 2)

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
October	13	37	06	28	< 0.1
	16	46	06	23	< 0.1
	23	65	08	26	< 0.1
	24	75	08	25	< 0.1
	11	32	04	23	< 0.1
	28	87	08	16	< 0.1
	27	86	04	18	< 0.1
	27	77	05	22	< 0.1
	22	66	03	09	< 0.1
November	22	65	07	24	< 0.1
	25	70	08	27	< 0.1
	24	72	04	32	< 0.1
	21	62	03	27	< 0.1
	23	71	08	26	< 0.1
	15	48	10	25	< 0.1
	26	73	05	28	< 0.1
	20	60	06	22	< 0.1
December	26	78	07	26	< 0.1
	20	62	06	26	< 0.1
	22	68	04	20	< 0.1
	24	78	08	27	< 0.1
	22	67	05	19	< 0.1
	26	74	04	22	< 0.1
	22	68	05	22	< 0.1
	23	70	09	23	< 0.1
	25	72	03	20	< 0.1

Months	PM2.5 µg/m ³	PM10 µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³
January	17	48	06	23	< 0.1
	22	62	05	19	< 0.1
	27	74	05	19	< 0.1
	25	71	04	21	< 0.1
	18	51	06	18	< 0.1
	22	65	08	18	< 0.1
	20	58	03	15	< 0.1
	22	63	07	22	< 0.1
	25	72	04	20	< 0.1
February	21	65	07	25	< 0.1
	22	68	04	22	< 0.1
	24	74	08	25	< 0.1
	18	56	07	20	< 0.1
	19	59	06	23	< 0.1
	20	61	05	21	< 0.1
	23	68	11	35	< 0.1
	25	72	09	29	< 0.1
March	23	60	04	15	< 0.1
	24	69	03	13	< 0.1
	23	66	05	29	< 0.1
	21	60	06	23	< 0.1
	20	63	05	19	< 0.1
	18	54	06	19	< 0.1
	27	78	03	10	< 0.1
	22	68	04	12	< 0.1
	25	74	07	20	< 0.1

Table No 8:

STACK EMISSION MONITORING RESULTS

Months	Location of sampling	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ mg/Nm ³	Hg mg/Nm ³
October	Coal Mill – 1 Bag Filter	23	-	-	-
	Cooler ESP – 1	19	-	-	-
	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	16	-	-	-
	Cooler ESP – 2	05	-	-	-
	Kiln & VRM ESP – 1	14	43.59	213.49	-
	Kiln & VRM – 2 RABH	13	38.80	211.3	-
	Boiler 1 & 2 ESP Stack	23	339.41	231.88	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	12	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	06	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	05	53.86	204.15	-
November	Coal Mill – 1 Bag Filter	14	-	-	-
	Cooler ESP – 1	09	-	-	-
	CVRM – 1 Bag Filter	06	-	-	-
	CVRM – 2 Bag Filter	05	-	-	-

Months	Location of sampling	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ mg/Nm ³	Hg mg/Nm ³
	CVRM – 3 Bag Filter	22	-	-	-
	Coal Mill – 2 Bag Filter	24	-	-	-
	Cooler ESP – 2	06	-	-	-
	Kiln & VRM ESP – 1	13	18.22	248.04	-
	Kiln & VRM – 2 RABH	05	25.95	214.29	-
	Boiler 1 & 2 ESP Stack	13	410.94	212.56	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	28	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	07	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	10	74.35	204.04	-
December	CVRM – 1 Bag Filter	08	-	-	-
	CVRM – 2 Bag Filter	06	-	-	-
	CVRM – 3 Bag Filter	07	-	-	-
	Coal Mill – 2 Bag Filter	11	-	-	-
	Cooler ESP – 2	14	-	-	-
	Kiln & VRM – 2 RABH	12	42.06	134.64	-
	Boiler 1 & 2 ESP Stack	24	326.56	241.57	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	26	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	09	-	-	-
Kiln & Raw Mill RABH (DSP Unit)	11	67.66	230.99	-	
January	Coal Mill – 1 Bag Filter	23	-	-	-
	Cooler ESP – 1	19	-	-	-
	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	16	-	-	-
	Cooler ESP – 2	05	-	-	-
	Kiln & VRM ESP – 1	14	43.59	213.49	-
	Kiln & VRM – 2 RABH	13	38.80	211.3	-
	Boiler 1 & 2 ESP Stack	23	339.41	231.88	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	12	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	06	-	-	-
Kiln & Raw Mill RABH (DSP Unit)	05	53.86	204.15	-	
February	Coal Mill – 1 Bag Filter	13	-	-	-
	Cooler ESP – 1	16	-	-	-
	CVRM – 1 Bag Filter	08	-	-	-
	CVRM – 2 Bag Filter	06	-	-	-
	CVRM – 3 Bag Filter	09	-	-	-
	Coal Mill – 2 Bag Filter	19	-	-	-
	Cooler ESP – 2	17	-	-	-
	Kiln & VRM ESP – 1	10	24.79	-	-
	Kiln & VRM – 2 RABH	13	27.44	-	-
	Boiler 1 & 2 ESP Stack	36	385.58	214.25	<0.02
	Clinker Cooler Attached To ESP(DSP Unit)	11	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	09	-	-	-
Kiln & Raw Mill RABH (DSP Unit)	08	61.66	204.81	-	
March	Coal Mill – 1 Bag Filter	15	-	-	-
	Cooler ESP – 1	23	-	-	-
	CVRM – 1 Bag Filter	07	-	-	-
	CVRM – 2 Bag Filter	17	-	-	-

Months	Location of sampling	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ mg/Nm ³	Hg mg/Nm ³
	CVRM – 3 Bag Filter	13	-	-	-
	Coal Mill – 2 Bag Filter	14	-	-	-
	Cooler ESP – 2	18	-	-	-
	Kiln & VRM ESP – 1	05	22.22	218.66	-
	Kiln & VRM – 2 RABH	08	14.52	188.55	-
	Boiler 1 & 2 ESP Stack	37	308.71	248.77	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	13	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	06	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	07	24.04	158.34	-

Table No 9:
GROUND WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2023

SI 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 DailyMarket	Tube Well Village Rani Bandha		
1	Turbidity	3.9	4.6	5.0	0.70	2.1	NTU	5.0
2	pH Value	6.76	6.66	6.69	6.84	6.35	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	452	184	320	376	308	mg/l	600
4	Iron (as Fe)	0.22	0.12	0.26	0.26	0.10	mg/l	0.3
5	Chlorides (as Cl)	78.84	16.75	50.26	47.30	54.20	mg/l	1000
6	Total Dissolved Solids	540	219	471	495	406	mg/l	2000
7	Electrical Conductivity	900	370	759	788	675	µS/cm	-
8	Calcium (as Ca)	92.99	57.72	80.16	97.79	70.54	mg/l	200
9	Magnesium (as Mg)	53.46	9.72	29.16	32.08	32.08	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)	86.03	19.66	89.54	87.50	58.67	mg/l	400
13	Total Nitrate (as NO ₃)	8.75	3.93	3.58	5.49	6.11	mg/l	45
14	Total Alkalinity (as CaCO ₃)	200	120	180	200	160	mg/l	600
15	Acidity	14	14	2.0	14	26	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	17.18	17.54	33.92	23.19	22.06	mg/l	-
18	Potassium (as K)	1.25	2.47	1.15	0.79	1.52	mg/l	-
19	Fluoride (as F)	1.0	0.90	1.0	0.90	0.50	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	20.5	30.4	30.5	30.5	30.5	°C	-
32	Residual Free Chlorine	0.24	0.22	0.16	0.24	0.11	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 10:

GROUND WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2023

SI 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	3.5	0.2	4.4	0.1	0.1	NTU	5.0
2	pH Value	6.59	6.54	6.61	6.81	6.58	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	580	412	308	380	156	mg/l	600
4	Iron (as Fe)	0.28	0.19	0.29	0.27	0.11	mg/l	0.3
5	Chlorides (as Cl)	278.91	61.10	40.40	54.20	34.49	mg/l	1000
6	Total Dissolved Solids	996	496	402	478	207	mg/l	2000
7	Electrical Conductivity	1629	827	647	772	344	µS/cm	-
8	Calcium (as Ca)	176.35	115.43	76.95	96.19	51.30	mg/l	200
9	Magnesium (as Mg)	34.02	30.13	28.19	34.02	6.80	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)	141.17	38.13	52.34	100.47	18.68	mg/l	400
13	Total Nitrate (as NO ₃)	157.8	53.48	28.73	14.85	6.23	mg/l	45
14	Total Alkalinity (as CaCO ₃)	148	172	148	240	80	mg/l	600
15	Acidity	30	16	24	20	24	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	39.83	22.12	23.99	19.46	7.96	mg/l	-
18	Potassium (as K)	1.73	2.31	1.33	0.72	0.74	mg/l	-
19	Fluoride (as F)	1.0	0.9	1.0	0.9	0.4	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	27.3	27.2	27.2	27.2	27.3	°C	-
32	Residual Free Chlorine	0.24	0.16	0.26	0.23	0.22	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 11:

GROUND WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2023

SI 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	3.7	2.5	4.9	0.60	1.9	NTU	5.0
2	pH Value	6.62	6.67	6.52	6.93	6.94	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	580	540	316	368	340	mg/l	600
4	Iron (as Fe)	0.10	0.18	0.10	0.19	0.21	mg/l	0.3
5	Chlorides (as Cl)	261.92	260.92	40.98	55.98	49.98	mg/l	1000
6	Total Dissolved Solids	1030	991	436	534	424	mg/l	2000
7	Electrical Conductivity	1700	1625	702	853	677	µS/cm	-
8	Calcium (as Ca)	181.16	187.57	91.38	125.05	81.76	mg/l	200
9	Magnesium (as Mg)	31.10	17.49	21.38	13.61	33.05	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)	140.0	133.53	53.77	84.04	40.21	mg/l	400

SI 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		
13	Total Nitrate (as NO ₃)	40.24	30.14	5.43	25.95	10.87	mg/l	45
14	Total Alkalinity (as CaCO ₃)	320	308	196	200	204	mg/l	600
15	Acidity	48	46	26	26	16	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	48.42	48.61	29.17	26.82	8.55	mg/l	-
18	Potassium (as K)	3.10	3.08	2.59	0.95	4.13	mg/l	-
19	Fluoride (as F)	0.90	0.60	1.0	1.0	0.8	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	21.8	23.2	23.1	21.8	21.8	°C	-
32	Residual Free Chlorine	0.29	0.18	0.24	0.18	0.20	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 12:
GROUND WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2024

SI 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	3.4	3.1	4.6	0.5	0.4	NTU	5.0
2	pH Value	6.59	6.65	6.68	6.86	6.59	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	536	176.70	313.25	392	208.83	mg/l	600
4	Iron (as Fe)	0.12	0.10	0.46	0.19	0.24	mg/l	0.3
5	Chlorides (as Cl)	203.94	11.99	35.98	52.98	32.99	mg/l	1000
6	Total Dissolved Solids	909	215	432	511	252	mg/l	2000
7	Electrical Conductivity	1442	341	680	810	393	µS/cm	-
8	Calcium (as Ca)	193.15	46.68	75.65	117.03	51.51	mg/l	200
9	Magnesium (as Mg)	13.60	14.64	30.25	24.3	19.52	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)	157.62	13.46	66.05	93.16	21.87	mg/l	400
13	Total Nitrate (as NO ₃)	41.11	3.93	5.49	0.19	2.23	mg/l	45
14	Total Alkalinity (as CaCO ₃)	252	132	180	164	108	mg/l	600
15	Acidity	36	10	12	16	16	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	39.49	9.12	37.49	32.31	13.54	mg/l	-
18	Potassium (as K)	2.37	2.17	2.36	1.14	1.18	mg/l	-
19	Fluoride (as F)	0.9	0.8	1.0	1.0	0.4	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

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	22.3	22.3	22.2	22.2	22.2	°C	-
32	Residual Free Chlorine	0.26	0.24	0.29	0.20	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 13:

GROUND WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2024

SI 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	3.6	2.4	5.8	0.5	1.9	NTU	5.0
2	pH Value	6.63	6.72	6.69	6.91	6.44	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	393.57	305.22	273.08	397.58	317.26	mg/l	600
4	Iron (as Fe)	0.20	0.14	0.10	0.20	0.22	mg/l	0.3
5	Chlorides (as Cl)	252.92	116.96	45.98	54.98	56.98	mg/l	1000
6	Total Dissolved Solids	941	732	433	530	430	mg/l	2000
7	Electrical Conductivity	1429	11.86	680	842	666	µS/cm	-
8	Calcium (as Ca)	90.13	99.79	70.82	127.16	70.82	mg/l	200
9	Magnesium (as Mg)	40.99	13.66	23.42	19.52	34.15	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)	138.95	129.33	61.25	85.36	57.74	mg/l	400
13	Total Nitrate (as NO ₃)	41.6	25.95	4.43	15.46	3.11	mg/l	45
14	Total Alkalinity (as CaCO ₃)	308	332	196	200	184	mg/l	600
15	Acidity	32	64	30	26	24	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	42.65	39.41	27.85	24.72	19.88	mg/l	-
18	Potassium (as K)	2.79	1.25	2.20	1.27	2.58	mg/l	-
19	Fluoride (as F)	1.0	0.6	0.9	1.0	0.8	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	24.7	24.6	24.3	24.7	24.3	°C	-
32	Residual Free Chlorine	0.26	0.18	0.21	0.19	0.20	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 14:

GROUND WATER QUALITY RESULT FOR THE MONTH OF MARCH 2024

SI 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	2.8	2.4	4.1	0.40	0.60	NTU	5.0
2	pH Value	7.36	6.84	6.56	6.78	6.59	-	6.5 – 8.5

SI 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		
3	Total Hardness (as CaCO ₃)	420.24	187.68	297.84	350.88	208.08	mg/l	600
4	Iron (as Fe)	0.22	0.12	0.26	0.27	0.11	mg/l	0.3
5	Chlorides (as Cl)	79.83	13.79	35.48	56.17	35.48	mg/l	1000
6	Total Dissolved Solids	565	221	420	498	243	mg/l	2000
7	Electrical Conductivity	897	356	655	788	385	µS/cm	-
8	Calcium (as Ca)	81.76	55.60	65.41	109.59	42.52	mg/l	200
9	Magnesium (as Mg)	52.55	11.89	32.72	18.54	24.79	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO ₄)	102.40	5.01	52.51	84.73	10.86	mg/l	400
13	Total Nitrate (as NO ₃)	35.44	3.86	2.29	10.85	6.23	mg/l	45
14	Total Alkalinity (as CaCO ₃)	196	144	200	192	136	mg/l	600
15	Acidity	20	16	32	24	20	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	14.40	5.12	27.17	22.96	9.01	mg/l	-
18	Potassium (as K)	2.49	2.45	12.88	1.34	1.46	mg/l	-
19	Fluoride (as F)	1.0	0.90	0.50	0.80	0.40	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	27.3	24.6	27.2	27.4	27.3	°C	-
32	Residual Free Chlorine	0.27	0.18	0.22	0.23	0.22	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 15:
DRINKING WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2023

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		General Office Ground Floor drinking water	Atithi Niwas drinking Water (L – 2)	Drinking Water Near KHD Section Office (L – 1)	Drinking Water Near Cooler (Line – 1)	Drinking Water Point VRM Area (Line – 2)	Drinking Water Point General Store		
1	Turbidity	0.40	0.20	1.0	1.90	0.60	0.20	NTU	5.0
2	pH Value	7.45	7.58	7.52	7.61	7.72	7.82	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	136	128	128	140	128	140	mg/l	600
4	Iron (as Fe)	0.29	0.22	0.22	0.20	0.24	0.29	mg/l	0.3
5	Chlorides (as Cl)	11.83	11.83	11.83	12.81	11.83	9.86	mg/l	1000
6	Total Dissolved Solids	165	162	161	163	169	165	mg/l	2000
7	Electrical Conductivity	275	279	281	278	277	281	µS/cm	-
8	Calcium (as Ca)	40.08	35.27	40.08	22.44	35.27	40.08	mg/l	200
9	Magnesium (as Mg)	8.75	9.72	6.80	20.41	9.72	9.72	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)	< 0.50	15.15	12.83	15.19	3.45	9.43	mg/l	400
13	Total Nitrate (as NO ₃)	4.91	2.43	2.20	2.24	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	104	88	84	92	120	96	mg/l	600
15	Acidity	04	02	02	04	2.0	04	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	7.50	7.48	7.63	7.15	7.30	7.52	mg/l	-
18	Potassium (as K)	1.27	1.22	1.18	1.17	1.19	1.19	mg/l	-
19	Fluoride (as F)	0.60	0.70	0.70	0.40	0.50	0.90	mg/l	1.5

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		General Office Ground Floor drinking water	Atithi Niwas drinking Water (L – 2)	Drinking Water Near KHD Section Office (L – 1)	Drinking Water Near Cooler (Line – 1)	Drinking Water Point VRM Area (Line – 2)	Drinking Water Point General Store		
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	26.8	26.4	26.4	26.7	27.0	26.2	°C	-
32	Residual Free Chlorine	0.18	0.22	0.11	0.08	0.11	0.20	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 16:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2023

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		CCR Ground Floor Canteen Drinking Water(L – 1)	CCR First Floor Pantry Drinking Water (L – 2)	HR Office Drinking water Point	General Store Drinking Water Point (Line – 1)	General Office 2nd Floor Drinking Water point	CCR First Floor Pantry Drinking Water (L – 3)		
1	Turbidity	0.1	0.1	0.1	0.1	0.1	1.3	NTU	5.0
2	pH Value	7.63	7.86	7.92	7.88	7.99	7.93	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	200	192	204	200	188	192	mg/l	600
4	Iron (as Fe)	0.28	0.29	0.29	0.29	0.11	0.26	mg/l	0.3
5	Chlorides (as Cl)	17.99	16.99	16.99	16.99	17.99	17.99	mg/l	1000
6	Total Dissolved Solids	218	242	220	224	220	219	mg/l	2000
7	Electrical Conductivity	376	380	382	376	380	377	µS/cm	-
8	Calcium (as Ca)	44.88	43.28	35.27	35.27	36.87	51.30	mg/l	200
9	Magnesium (as Mg)	21.38	20.41	28.19	27.22	23.33	15.55	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)	< 0.50	21.21	29.25	23.09	20.13	21.15	mg/l	400
13	Total Nitrate (as NO ₃)	3.27	3.05	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	100	140	100	108	120	108	mg/l	600
15	Acidity	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	9.89	9.36	9.68	9.92	10.33	9.88	mg/l	-
18	Potassium (as K)	1.66	1.61	1.66	1.71	1.69	1.68	mg/l	-
19	Fluoride (as F)	0.6	0.5	0.9	0.11	0.3	0.8	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	27.3	27.3	27.3	27.2	27.2	27.2	°C	-
32	Residual Free Chlorine	0.11	0.12	0.12	0.11	0.10	0.13	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 17:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2023

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Central Workshop Drinking Water Point (L-1)	Near Clinker Silo Drinking Water Point (L-1)	CPP Canteen Drinking Water Point(L-2)	Workshop Drinking Water Point (Line-2)	Near Coal Mill Drinking Water Point (L-3)	General Store Drinking Water Point (L-3)		
1	Turbidity	0.50	0.90	1.8	1.0	0.40	0.90	NTU	5.0
2	pH Value	8.12	8.13	8.16	8.11	8.07	8.15	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	208	208	208	208	204	216	mg/l	600
4	Iron (as Fe)	0.20	0.29	0.22	0.25	0.29	0.22	mg/l	0.3
5	Chlorides (as Cl)	18.99	20.99	19.99	19.99	20.99	19.99	mg/l	1000
6	Total Dissolved Solids	269	273	263	264	260	270	mg/l	2000
7	Electrical Conductivity	434	436	422	419	430	429	µS/cm	-
8	Calcium (as Ca)	40.08	52.91	44.89	36.87	51.30	36.87	mg/l	200
9	Magnesium (as Mg)	26.24	18.47	23.33	28.19	18.45	30.13	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)	19.98	16.59	15.77	17.29	17.46	19.70	mg/l	400
13	Total Nitrate (as NO ₃)	3.35	3.62	2.87	2.96	4.15	4.95	mg/l	45
14	Total Alkalinity (as CaCO ₃)	172	168	160	164	148	164	mg/l	600
15	Acidity	< 2.0	< 2.0	< 2.0	6.0	< 2.0	< 2.0	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	11.67	11.84	11.38	12.11	11.52	11.45	mg/l	-
18	Potassium (as K)	3.50	3.55	3.66	3.78	3.57	3.60	mg/l	-
19	Fluoride (as F)	0.80	0.70	0.90	0.90	0.70	0.50	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	23.2	23.3	23.0	23.0	23.3	23.3	°C	-
32	Residual Free Chlorine	0.09	0.11	0.13	0.11	0.15	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 18:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2024

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near AFR Drinking Water Point (L-2)	Colony Drinking Water Point	Guest House Canteen Drinking Water Point	Near CVRM - 2 Drinking Water Point (Line-1)	Near Main Gate Canteen Drinking Water Point (Line-2)	Near Cooler Drinking Water Point(L-3)		
1	Turbidity	0.1	0.1	2.9	0.1	0.9	1.6	NTU	5.0
2	pH Value	7.48	7.91	7.97	7.96	7.87	7.92	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	212.85	220.88	216.86	228.91	204.82	220.88	mg/l	600
4	Iron (as Fe)	0.19	0.03	0.28	0.26	0.29	0.29	mg/l	0.3
5	Chlorides (as Cl)	15.99	21.99	17.99	17.99	17.99	17.99	mg/l	1000
6	Total Dissolved Solids	272	282	278	269	275	278	mg/l	2000
7	Electrical Conductivity	431	441	440	430	436	439	µS/cm	-
8	Calcium (as Ca)	51.51	48.28	33.80	41.85	49.89	43.45	mg/l	200
9	Magnesium (as Mg)	20.49	24.39	32.20	30.25	19.52	27.33	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near AFR Drinking Water Point (L - 2)	Colony Drinking Water Point	Guest House Canteen Drinking Water Point	Near CVRM - 2 Drinking Water Point (Line - 1)	Near Main Gate Canteen Drinking Water Point (Line - 2)	Near Cooler Drinking Water Point(L - 3)		
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)	24.06	24.06	23.54	18.83	21.04	23.32	mg/l	400
13	Total Nitrate (as NO ₃)	3.05	2.31	5.70	2.46	4.66	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	152	164	164	156	164	172	mg/l	600
15	Acidity	8.0	< 2.0	< 2.0	< 2.0	10	< 2.0	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	15.85	16.35	16.55	16.47	16.42	16.72	mg/l	-
18	Potassium (as K)	3.34	3.41	3.39	3.42	3.41	3.37	mg/l	-
19	Fluoride (as F)	0.5	0.6	0.6	0.8	1.0	0.70	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	22.1	22.2	22.2	22.2	22.2	22.2	°C	-
32	Residual Free Chlorine	0.12	0.09	0.09	0.15	0.13	0.19	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 19:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Spandan Dispensary Drinking Water Point	Drinking Water point General Office Ground Floor	Near Workers' Canteen Drinking Water Point (Line - 2)	Near Clay Gate Drinking Water Point(Line - 1)	Drinking Water point Near KHD section Office (Line - 1)	Near Workers' Canteen Drinking Water Point (DSP Unit)		
1	Turbidity	0.1	0.1	0.1	0.1	0.1	0.90	NTU	5.0
2	pH Value	7.76	7.92	7.87	8.05	7.90	7.96	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	216.86	216.86	216.86	216.86	204.82	224.89	mg/l	600
4	Iron (as Fe)	0.28	0.11	0.10	0.14	0.16	0.29	mg/l	0.3
5	Chlorides (as Cl)	27.99	24.99	26.99	28.99	24.99	24.99	mg/l	1000
6	Total Dissolved Solids	278	268	268	277	272	272	mg/l	2000
7	Electrical Conductivity	435	426	424	440	429	429	µS/cm	-
8	Calcium (as Ca)	54.73	46.68	40.24	43.45	35.41	53.12	mg/l	200
9	Magnesium (as Mg)	19.52	24.39	28.29	26.35	28.30	22.44	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)	17.36	16.81	16.47	16.36	15.68	14.11	mg/l	400
13	Total Nitrate (as NO ₃)	< 2.20	< 2.20	< 2.20	< 2.20	3.24	3.19	mg/l	45
14	Total Alkalinity (as CaCO ₃)	140	136	180	184	176	164	mg/l	600
15	Acidity	6.0	< 2.0	< 2.0	< 2.0	6.0	8.0	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	12.67	12.20	12.18	13.36	12.11	12.35	mg/l	-
18	Potassium (as K)	3.43	3.43	3.41	3.48	3.38	3.45	mg/l	-
19	Fluoride (as F)	0.7	0.2	0.3	0.6	0.7	0.90	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

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Spandan Dispensary Drinking Water Point	Drinking Water point General Office Ground Floor	Near Workers' Canteen Drinking Water Point (Line - 2)	Near Clay Gate Drinking Water Point (Line - 1)	Drinking Water point Near KHD section Office (Line - 1)	Near Workers' Canteen Drinking Water Point (DSP Unit)		
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	24.3	24.3	24.3	24.3	24.2	°C	-
32	Residual Free Chlorine	0.19	0.20	0.18	0.24	0.11	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 20:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF MARCH 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near Main Gate Drinking Water Point (Line - 1)	Drinking Water point CPP Office Pantry Room (Line - 2)	Drinking Water Point Near KHD Workers' Canteen (Line - 1)	Drinking Water Point near Cooler Area (Line - 2)	Drinking Water Point Near New Weigh Bridge (Dsp Unit)	Drinking Water Point Near Coal Mill (DSP Unit)		
1	Turbidity	0.70	0.30	0.10	1.0	0.90	0.30	NTU	5.0
2	pH Value	7.69	7.80	7.72	7.76	7.79	7.82	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	212.16	199.92	220.32	199.92	199.92	195.84	mg/l	600
4	Iron (as Fe)	0.29	0.18	0.14	0.20	0.22	0.28	mg/l	0.3
5	Chlorides (as Cl)	23.65	22.66	36.46	23.65	24.64	22.66	mg/l	1000
6	Total Dissolved Solids	269	265	294	264	272	262	mg/l	2000
7	Electrical Conductivity	424	420	461	419	428	412	µS/cm	-
8	Calcium (as Ca)	44.15	44.15	39.25	32.71	34.34	35.98	mg/l	200
9	Magnesium (as Mg)	24.78	21.81	29.74	28.75	27.76	25.77	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)	14.96	13.26	14.61	12.55	13.71	11.66	mg/l	400
13	Total Nitrate (as NO ₃)	4.66	< 2.20	3.39	2.93	2.93	4.15	mg/l	45
14	Total Alkalinity (as CaCO ₃)	164	168	176	164	168	168	mg/l	600
15	Acidity	8.0	< 2.0	< 2.0	< 2.0	< 2.0	8.0	mg/l	-
16	Sulphide (as H ₂ S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	11.14	10.31	10.98	10.63	10.47	10.42	mg/l	-
18	Potassium (as K)	9.81	6.87	5.04	6.88	6.87	4.84	mg/l	-
19	Fluoride (as F)	0.80	0.70	0.60	0.60	0.40	0.80	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	27.3	27.4	27.3	27.2	27.3	27.2	°C	-
32	Residual Free Chlorine	0.14	0.10	0.12	0.20	0.11	0.16	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 21:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2023

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.10	7.34	7.29	7.52	-	6.5 – 8.5
2	Electrical Conductivity	312	365	434	350	µS/cm	-
3	Total Dissolved Solids	187	215	256	207	mg/l	1500
4	Total Hardness (as CaCO ₃)	128	156	172	168	mg/l	-
5	Chlorides (as Cl)	10.84	14.78	24.64	13.79	mg/l	600
6	Sulfate (as SO ₄)	11.06	21.54	32.37	14.32	mg/l	400
7	Total Nitrate (as NO ₃)	< 2.20	3.20	< 2.20	2.70	mg/l	50
8	Fluoride (as F)	0.40	1.0	0.90	0.80	mg/l	1.5
9	Calcium (as Ca)	38.47	43.29	44.89	43.29	mg/l	-
10	Magnesium (as Mg)	7.78	11.66	14.58	14.58	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.39	0.59	0.46	0.11	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.)	6.3	6.1	6.4	6.4	mg/l	4
25	BOD 5 days at 20°C	01	03	02	02	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	3.52	7.04	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 ₆ H ₅ OH)	< 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	1000	1000	10	Nos/100ml	5000

Table No 22:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2023

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.36	7.45	7.21	7.34	-	6.5 – 8.5
2	Electrical Conductivity	401	406	514	405	µS/cm	-
3	Total Dissolved Solids	241	245	309	243	mg/l	1500
4	Total Hardness (as CaCO ₃)	172	184	232	200	mg/l	-
5	Chlorides (as Cl)	18.99	23.99	32.99	18.72	mg/l	600
6	Sulfate (as SO ₄)	23.61	28.39	41.41	24.93	mg/l	400
7	Total Nitrate (as NO ₃)	6.23	< 2.20	6.76	2.69	mg/l	50
8	Fluoride (as F)	0.8	1.0	0.9	0.8	mg/l	1.5
9	Calcium (as Ca)	40.08	49.69	62.53	40.08	mg/l	-
10	Magnesium (as Mg)	17.49	14.58	18.45	24.3	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.42	0.51	0.52	0.16	mg/l	50

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
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.)	6.3	6.3	6.4	6.4	mg/l	4
25	BOD 5 days at 20°C	03	4.0	02	2.0	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)	7.04	7.04	7.04	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 ₆ H ₅ OH)	< 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	1000	1000	10	Nos/100ml	5000

Table No 23:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2023

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.46	7.54	7.53	7.80	-	6.5 – 8.5
2	Electrical Conductivity	406	465	470	385	µS/cm	-
3	Total Dissolved Solids	244	279	282	231	mg/l	1500
4	Total Hardness (as CaCO ₃)	164	184	188	172	mg/l	-
5	Chlorides (as Cl)	16.99	24.99	24.99	17.99	mg/l	600
6	Sulfate (as SO ₄)	27.70	35.17	32.88	23.78	mg/l	400
7	Total Nitrate (as NO ₃)	< 2.20	2.76	3.01	2.69	mg/l	50
8	Fluoride (as F)	0.80	0.90	0.90	0.70	mg/l	1.5
9	Calcium (as Ca)	46.49	41.68	46.49	48.09	mg/l	-
10	Magnesium (as Mg)	11.66	19.44	17.49	12.64	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.46	0.51	0.49	0.14	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.)	6.3	6.2	6.2	6.3	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)	7.04	8.8	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

SI	Parameter	Results Obtained				Unit	Surface Water
30	Phenolic Compounds (as C ₆ H ₅ OH)	< 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	1000	1000	10	Nos/100ml	5000

Table No 24:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2024

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.60	7.68	7.35	7.78	-	6.5 – 8.5
2	Electrical Conductivity	597	643	752	515	µS/cm	-
3	Total Dissolved Solids	359	386	451	309	mg/l	1500
4	Total Hardness (as CaCO ₃)	220.88	273.09	281.12	240.96	mg/l	-
5	Chlorides (as Cl)	33.99	41.99	52.98	24.99	mg/l	600
6	Sulfate (as SO ₄)	32.35	41.19	56.94	24.79	mg/l	400
7	Total Nitrate (as NO ₃)	3.11	3.01	2.98	2.76	mg/l	50
8	Fluoride (as F)	0.8	0.9	0.9	0.7	mg/l	1.5
9	Calcium (as Ca)	45.06	45.06	51.51	69.21	mg/l	-
10	Magnesium (as Mg)	26.35	39.04	37.08	16.59	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.48	0.59	0.49	0.44	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.)	6.3	6.1	6.3	6.2	mg/l	4
25	BOD 5 days at 20°C	01	03	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)	7.04	10.56	12.32	< 1.0	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 ₆ H ₅ OH)	< 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	1000	1000	Absent	Nos/100ml	5000

Table No 25:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2024

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.39	7.69	7.64	7.82	-	6.5 – 8.5
2	Electrical Conductivity	610	676	691	492	µS/cm	-
3	Total Dissolved Solids	366	406	415	295	mg/l	1500
4	Total Hardness (as CaCO ₃)	257.02	269.07	317.26	244.97	mg/l	-
5	Chlorides (as Cl)	34.99	50.98	49.98	25.99	mg/l	600
6	Sulfate (as SO ₄)	30.77	39.97	37.73	16.76	mg/l	400

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
7	Total Nitrate (as NO ₃)	< 2.20	2.46	3.01	2.69	mg/l	50
8	Fluoride (as F)	0.9	0.9	0.8	0.7	mg/l	1.5
9	Calcium (as Ca)	74.04	64.38	80.48	54.73	mg/l	-
10	Magnesium (as Mg)	17.56	26.35	28.29	26.35	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.52	0.51	0.48	0.14	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.)	6.3	6.2	6.3	6.3	mg/l	4
25	BOD 5 days at 20°C	02	02	02	02	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)	14.08	8.8	10.56	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 ₆ H ₅ OH)	< 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	Absent	Absent	Absent	Nos/100ml	5000

Table No 26:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF MARCH 2024

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.53	7.46	6.61	7.60	-	6.5 – 8.5
2	Electrical Conductivity	675	682	830	425	µS/cm	-
3	Total Dissolved Solids	405	410	515	255	mg/l	1500
4	Total Hardness (as CaCO ₃)	281.82	277.44	314.16	199.92	mg/l	-
5	Chlorides (as Cl)	49.28	49.28	62.08	21.68	mg/l	600
6	Sulfate (as SO ₄)	30.52	31.62	47.25	10.75	mg/l	400
7	Total Nitrate (as NO ₃)	< 2.20	2.39	2.46	2.69	mg/l	50
8	Fluoride (as F)	0.50	0.60	0.50	0.40	mg/l	1.5
9	Calcium (as Ca)	67.05	50.69	53.96	40.88	mg/l	-
10	Magnesium (as Mg)	30.73	36.68	43.62	23.79	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.20	0.22	0.36	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	-	-

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.2	6.1	6.1	6.3	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)	7.04	10.56	10.56	8.80	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 ₆ H ₅ OH)	< 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	Absent	Absent	Absent	Nos/100ml	5000

Table No 27:

27.1 EFFLUENT WATER QUALITY RESULT OF ETP INLET

SI No	Parameters	Results Obtained						Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
1	pH Value	7.17	7.19	8.18	7.25	7.95	7.33	-
2.	Total Suspended Solids	26.1	386.9	4.2	20.8	4.0	279.3	mg/l
3.	Oil & Grease	2.6	2.2	2.2	2.2	2.2	2.4	mg/l
4.	BOD 5days at 20°C	140	120	115	120	110	80	mg/l
5.	COD	430.16	365.10	340.10	365.60	360.26	250.21	mg/l

27.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET

SI No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH		
1	pH Value	7.05	7.10	7.96	7.34	7.89	7.30	5.5 – 9.0	-
2.	Total Suspended Solids	15.8	< 2.5	< 2.5	6.3	2.6	< 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	80	50	52	50	50	05	-	mg/l
5.	COD	245.60	155.16	150.16	159.80	165.26	20.261	-	mg/l

Table No 28 :

EFFLUENT WATER QUALITY RESULT OF STP OUTLET

SI No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCT	NOV	DEC	JAN	FEB	MAR		
1	pH Value	7.31	7.48	7.48	7.39	7.51	7.45	6.5 – 9.0	-
2.	Total Suspended Solids	3.0	18.5	16.0	12.4	< 2.5	9.3	100	mg/l
3.	BOD 5days at 20°C	11	10	10	13	12	12	30	mg/l
4.	Fecal Coliform	100	100	100	100	100	37.260	1000	mg/l
5.	COD	35.16	32.160	30.15	40.160	38.160	100	-	mg/l

Table No 29:**EFFLUENT WATER QUALITY RESULT OF STP OUTLET DSP UNIT**

SI No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCT	NOV	DEC	JAN	FEB	MAR		
1	pH Value	7.25	7.51	7.30	7.18	7.26	7.40	6.5 – 9.0	-
2.	Total Suspended Solids	12.2	< 2.5	14.4	19.3	14.2	5.8	100	mg/l
3.	BOD 5days at 20°C	17	08	12	18	10	06	30	mg/l
4.	COD	54.12	26.160	40.16	55.160	35.36	19.160	-	mg/l
5.	Fecal Coliform	100	100	100	100	100	100	1000	mg/l

Table No 30:**SOIL QUALITY RESULT FOR THE MONTH OF OCTOBER 2023**

Sl. No.	Parameter	Unit	Konark Vihar Colony Area	In Front Of HR Office (Line – 1)	132 kv Station Area (Line – 2)	Line – 3 AFR Area (Near CAAQMS)
1.	Colour	-	Brownish	Greyish	Greyish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.6	1.8	1.5	1.4
5.	pH (1:2 Suspension)	-	7.85	8.09	7.89	7.82
6.	Iron	mg/kg	4.24	4.88	3.46	4.86
7.	Calcium	mg/kg	174	179	193	156
8.	Available Potassium (as K ₂ O)	Kg/ha	470.88	479.16	427.8	297.0
9.	Organic Carbon	%	0.95	1.98	1.65	0.68
10.	Available Nitrogen (as N)	Kg/ha	50.176	62.72	50.17	50.176
11.	Manganese	mg/kg	7.82	7.95	8.25	5.85
12.	Infiltration Rate	cm/hr	5.85	4.65	4.82	5.22
13.	Porosity	mg/m ³	0.22	0.20	0.22	0.13
14.	Moisture Content	%	18.42	16.56	19.82	17.86
16.	Chloride	mg/kg	0.24	0.18	0.22	0.18
17.	Sulphate	mg/kg	0.65	0.58	0.54	0.62

Table No 31:**SOIL QUALITY RESULT FOR THE MONTH OF NOVEMBER 2023**

Sl. No.	Parameter	Unit	Guest House Area	Tuck Parking Area(Line -2)	ETP Area	Near New Weigh Bridge
1.	Colour	-	Brownish	Greyish	Reddish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.3	1.2	1.3	1.4
5.	pH (1:2 Suspension)	-	7.45	8.02	7.91	8.05
6.	Iron	mg/kg	4.8	5.21	6.05	4.86
7.	Calcium	mg/kg	168	172	179	156
8.	Available Potassium (as K ₂ O)	Kg/ha	426.24	289.44	348.96	313.68
9.	Organic Carbon	%	1.3	1.01	0.88	0.8
10.	Available Nitrogen (as N)	Kg/ha	62.72	112.9	62.72	137.98
11.	Manganese	mg/kg	9.61	9.23	9.76	5.85
12.	Infiltration Rate	cm/hr	6.54	4.26	4.77	5.22
13.	Porosity	mg/m ³	0.1956	0.2008	0.2122	0.13

Sl. No.	Parameter	Unit	Guest House Area	Tuck Parking Area(Line -2)	ETP Area	Near New Weigh Bridge
14.	Moisture Content	%	21.26	22.57	22.84	17.86
16.	Chloride	mg/kg	0.13	0.18	0.10	0.18
17.	Sulphate	mg/kg	0.62	0.54	0.48	0.62

Table No 32:

SOIL QUALITY RESULT FOR THE MONTH OF DECEMBER 2023

Sl. No.	Parameter	Unit	Line 1 AFR Area	Khandakavya Garden	Water Harvesting pond Line – 2	Near Liquid AFR Area(DSP Unit)
1.	Colour	-	Brownish	Greyish	Reddish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Silty Clay Loam	Silty Clay Loam	Sandy Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.20	1.3	1.4	1.42
5.	pH (1:2 Suspension)	-	8.45	8.13	8.29	8.76
6.	Iron	mg/kg	3.88	4.18	5.27	5.08
7.	Calcium	mg/kg	194	222	198	188
8.	Available Potassium (as K ₂ O)	Kg/ha	124.44	273.72	363	182.88
9.	Organic Carbon	%	0.69	< 0.5	1.13	0.65
10.	Available Nitrogen (as N)	Kg/ha	100.35	150.53	175.62	125.44
11.	Manganese	mg/kg	10.04	9.43	10.22	9.02
12.	Infiltration Rate	cm/hr	5.84	6.15	3.42	9.64
13.	Porosity	mg/m ³	0.1992	0.2415	0.2210	0.1785
14.	Moisture Content	%	14.54	15.78	18.34	32.0
16.	Chloride	mg/kg	0.17	0.21	0.13	0.18
17.	Sulphate	mg/kg	0.84	0.68	0.41	0.76

Table No 33:

SOIL QUALITY RESULT FOR THE MONTH OF JANUARY 2024

Sl. No.	Parameter	Unit	STP AREA LINE – 2	KONARK VIHAR	HR OFFICE LINE – 1	AFR AREA (DSP UNIT)
1.	Colour	-	Greyish	Greyish	Greyish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.2	1.5	1.4	1.4
5.	pH (1:2 Suspension)	-	8.14	8.21	8.06	8.42
6.	Iron	mg/kg	4.8	5.21	6.05	7.02
7.	Calcium	mg/kg	169	170	163	157
8.	Available Potassium (as K ₂ O)	Kg/ha	582.24	310.76	186.24	143.4
9.	Organic Carbon	%	1.18	1.23	0.59	0.81
10.	Available Nitrogen (as N)	Kg/ha	188.16	75.26	75.26	75.26
11.	Manganese	mg/kg	9.61	9.23	9.76	5.02
12.	Infiltration Rate	cm/hr	6.54	4.26	4.77	7.39
13.	Porosity	mg/m ³	0.1857	0.1922	0.2004	0.1287
14.	Moisture Content	%	21.26	22.57	22.84	20.74
16.	Chloride	mg/kg	0.18	0.16	0.23	0.26
17.	Sulphate	mg/kg	0.62	0.71	0.8	0.67

Table No 34:**SOIL QUALITY RESULT FOR THE MONTH OF FEBRUARY 2024**

Sl. No.	Parameter	Unit	Inside Store Yard (Line – 1)	AFR Area (Line – 2)	Kiskindhaban Area	New Weigh Bridge(DSP Unit)
1.	Colour	-	Greyish	Greyish	Greyish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.4	1.4	1.3	1.8
5.	pH (1:2 Suspension)	-	7.60	8.50	7.30	7.90
6.	Iron	mg/kg	3.9	6.13	5.4	6.82
7.	Calcium	mg/kg	178	184	172	174
8.	Available Potassium (as K ₂ O)	Kg/ha	318	310.76	350.4	133.2
9.	Organic Carbon	%	3.27	0.94	1.90	< 0.50
10.	Available Nitrogen (as N)	Kg/ha	112.89	87.81	213.24	12.54
11.	Manganese	mg/kg	8.61	8.63	8.74	5.02
12.	Infiltration Rate	cm/hr	6.54	4.26	4.77	7.39
13.	Porosity	mg/m ³	0.2015	0.1978	0.21	0.1350
14.	Moisture Content	%	22.77	21.24	20.87	22.7
16.	Chloride	mg/kg	0.14	0.19	0.27	0.25
17.	Sulphate	mg/kg	0.58	0.61	0.79	0.77

Table No 35:**SOIL QUALITY RESULT FOR THE MONTH OF MARCH 2024**

Sl. No.	Parameter	Unit	HR Office	Guest House	132 KVA Station	AFR Line – 3
1.	Colour	-	Greyish	Greyish	Greyish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.6	1.7	1.5	1.9
5.	pH (1:2 Suspension)	-	8.08	7.40	8.01	8.30
6.	Iron	mg/kg	5.2	5.4	6.1	5.92
7.	Calcium	mg/kg	182	176	187	168
8.	Available Potassium (as K ₂ O)	Kg/ha	542.88	629.88	577.08	329.16
9.	Organic Carbon	%	0.79	1.52	1.98	< 0.50
10.	Available Nitrogen (as N)	Kg/ha	112.9	75.26	62.72	125.44
11.	Manganese	mg/kg	9.41	9.1	9.24	5.02
12.	Infiltration Rate	cm/hr	9.44	6.23	7.77	9.39
13.	Porosity	mg/m ³	0.25	0.198	0.21	0.192
14.	Moisture Content	%	18.62	17.24	16.8	18.9
16.	Chloride	mg/kg	0.14	0.21	0.22	0.35
17.	Sulphate	mg/kg	0.48	0.52	0.48	0.82

Table No: 36:**NOISE LEVEL MONITORING DATA**

From 01.10.2023 to 31.03.2024

Month	Location	L _{eq} dB(A) Day Time	L _{eq} dB(A) Night Time
Oct	Main gate Near Canteen (Line – 1)	56.3	54.1
	Payloader Garage (Line – 1)	61.3	57.0
	Guest House Area	57.2	53.1
	CCR Building(Line – 2)	72.5	72.3

Month	Location	L _{eq} dB(A) Day Time	L _{eq} dB(A) Night Time
	Konark Vihar	52.8	58.0
	Atithi Niwas	64.2	63.7
	STP Area(DSP Unit)	57.2	58.2
	AFR Area(DSP Unit)	56.8	45.7
Nov	Workshop Area(Line – 2)	61.5	61.1
	Lime Stone Transfer Point(Line – 2)	69.0	69.3
	Guest House Area	51.2	43.8
	Konark Vihar	49.2	43.8
	General Store (Line – 1)	63.9	63.7
	Refractory Main Gate	62.6	65.3
	Project Area(DSP Unit)	57.7	57.0
	Store Area(DSP Unit)	60.3	57.3
Dec	Main gate Near Canteen (Line – 1)	51.0	40.0
	Payloader Garage (Line – 1)	63.1	58.3
	Guest House Area	51.4	47.3
	Konark Vihar	46.1	37.1
	CCR Building(Line – 2)	71.4	71.1
	CPP Area(Line – 2)	59.2	57.8
	STP Area (DSP Unit)	68.2	65.7
	Near AFR Storage Area (DSP Unit)	67.5	65.4
Jan	Refractory Main Gate	66.3	67.5
	General Store (Line – 1)	62.7	62.0
	Guest House Area	54.0	43.8
	Konark Vihar	40.6	33.9
	Engineering Hostel	55.9	47.6
	Workshop Area(Line 2)	58.7	58.3
	Project Gate(DSP unit)	55.6	55.3
	General Store Area(DSP Unit)	61.1	59.2
Feb	CCR Building(Line – 2)	70.6	65.5
	CPP Area(Line – 2)	59.7	57.4
	Guest House Area	51.1	40.0
	Konark Vihar	43.1	38.0
	Main gate Near Canteen (Line – 1)	56.3	54.1
	Payloader Garage (Line – 1)	63.3	61.2
	STP Area (DSP Unit)	57.2	56.3
	Near AFR Storage Area (DSP Unit)	67.0	55.9
Mar	Work Shop (Line – 2)	59.8	57.9
	Engineering Hostel	57.3	53.4
	Guest House Area	56.3	49.7
	Konark Vihar Area	47.7	41.4
	General Store Area(Line 1)	66.6	66.5
	Refractory Main Gate Area	62.2	60.9
	General Store (DSP Unit)	50.9	45.7
	Project Gate (DSP Unit)	58.8	56.7