

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

Proposal No	IA/OR/IND/217083/2021
Compliance ID	112829742
Compliance Number(For Tracking)	EC/M/COMPLIANCE/112829742/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	30-11-2024
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.	

DCBL/MOEFCC/001/2024-134
November 22, 2024

To,
**The Addl. Principal Chief Conservator 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 April 2024 to September 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 April 2024 to September 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 Dec(01 Apr - 30 Sep)****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	Category	Industrial Projects - 2
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	ODISHA	Entity's PAN	*****9414C
MoEF File No.	J-11011/352/2005-IA.II(I)	Entity name as per PAN	DALMIA CEMENT (BHARAT) LIMITED

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	
Reporting Period	01 Dec(01 Apr - 30 Sep)

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	Cement	Tons per Annum (TPA)	31/03/2025	4000000	2944016	4300000
2	Clinker	Tons per Annum (TPA)	31/03/2025	2900000	2253961	3300000
3	WHRB	MW	31/03/2025	11	47386	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.
<p>PPs Submission: Complied</p> <p>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 as supporting document.</p>		Date: 28/11/2024
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) and data is being transmitted to the Board server. Manual monitoring data is submitted to OSPCB monthly.</p>		Date: 28/11/2024
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 as well as noise levels monitored are well within the stipulated standards and reports are submitted to the statutory body on a regular basis. One ambient air quality monitoring station has been installed in downwind direction.</p>		Date: 28/11/2024
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 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 are 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. Raw material is stored covered with tarpaulin. f. Mist Cannon for dust suppressions been provided at raw material handling areas.</p>		<p>Date: 28/11/2024</p>
5	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 fogging through mist cannon is done on the coal stockpiles to control fugitive dust.</p>		<p>Date: 28/11/2024</p>
6	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>1. The total water consumption does not exceed the permitted quantity. 2. No ground water is used for industrial purposes. 3. Wastewater generated after treatment is recycled and reused for dust suppression, green belt development and other low end uses. 4. Domestic effluent is treated in the Sewage Treatment Plant.</p>		<p>Date: 28/11/2024</p>
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.
<p>PPs Submission: Complied</p> <p>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.</p>		<p>Date: 28/11/2024</p>
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.
<p>PPs Submission: Complied</p> <p>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.</p>		<p>Date: 28/11/2024</p>

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: 28/11/2024
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: 28/11/2024
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: 28/11/2024
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: 28/11/2024
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: 28/11/2024
General Conditions		
Sr.No.	Condition Type	Condition Details
1	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 conform 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: 28/11/2024
2	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.
<p>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.</p>		<p>Date: 28/11/2024</p>
3	MISCELLANEOUS	1. The project authority must adhere to the stipulation made by Orissa State Pollution Control Board and State Government.
<p>PPs Submission: Complied Noted and will be strictly adhered to from time to time.</p>		<p>Date: 28/11/2024</p>
4	MISCELLANEOUS	2. No expansion or modification of the plant should be carried out without prior approval of this Ministry.
<p>PPs Submission: Complied Noted and approval from the Ministry will be obtained prior to expansion or modification of the plant.</p>		<p>Date: 28/11/2024</p>
5	AIR QUALITY MONITORING AND PRESERVATION	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 SO ₂ and NO _X 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>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.</p>		<p>Date: 28/11/2024</p>
6	WATER QUALITY MONITORING AND PRESERVATION	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>PPs Submission: Complied Wastewater generated in the plant is treated in the effluent treatment plant (ETP) conforming to the standards and is re-used in the plant for machineries cooling, dust suppression on roads and plantation purposes.</p>		<p>Date: 28/11/2024</p>
7	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.
<p>PPs Submission: Complied The grant of Environmental Clearance has been published in two local newspapers i.e. The Samaj</p>		<p>Date: 28/11/2024</p>

(Odia) and The New Indian Express (English) dated 11.04.2007.		
8	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: 28/11/2024
9	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: 28/11/2024
10	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: 28/11/2024
11	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: 28/11/2024
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		The detailed environment monitoring report for the period April 2024 to September 2024 is attached as additional attachment.
<p style="text-align: center;">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.</p>		

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

APRIL 2024 – SEPTEMBER 2024

FOR

DALMIA CEMENT BHARAT LIMITED

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



Prepared By:

Cleenviron Private Limited

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

Tele: 0661 – 2475746

Email: cleenviron@gmail.com

1. DATA ANALYSIS

1.1 Micro-meteorological Study:

1.1.1 Wind Speed & Wind Direction

During the entire period from 1st April to 30th September all total 4392 no. of data are recorded by the instrument and after interpretation of the collected data it was found that Calm condition prevailed over 6.85%, while considering the 24 hourly data. 7.41% calm condition prevailed from morning 6 hrs to 14hrs for the entire study period, 9.53% calm condition prevailed from 14hrs to 22hrs and 3.34% calm condition prevailed from 22hrs to 06hrs. The predominant wind directions were from NE, NE, SE & NE with average wind speed 3.79 m/sec. The wind rose diagram for the entire study period are depicted on the **Figure No: 1.1, 1.2, 1.3 & 1.4.**

1.1.2 Temperature

The maximum & minimum temperature during the entire study period were divided in to two parts as the study period was covering summer as well as monsoon seasons. The Minimum temperature during the summer season was found to be 16.52°C and the Maximum temperature was found to be 44.23°C up to the end of 30th June.

The minimum and maximum temperature during the monsoon season i.e. from July to September was found to be 23.45°C and 36.50°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 April to 30th September was observed to be 749.9 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

Sl No	Parameters	From April – September 2024
1	Predominant Wind Direction	From NE, NE, NE & SE
2	Calm Condition %	6.85%
3	Average Wind Speed m/sec	3.79
4	Temperature °C	
	Summer Season	
	Minimum	16.52
	Maximum	44.23
	Monsoon Season	
	Minimum	23.45
	Maximum	36.50
5	Rain Fall in mm	
	April	10.2
	May	56.6
	June	145.7
	July	120.4
	August	273.4
	September	143.6
	Total	749.9

Figure No: 1.2 Wind Rose Diagram for 24 Hours

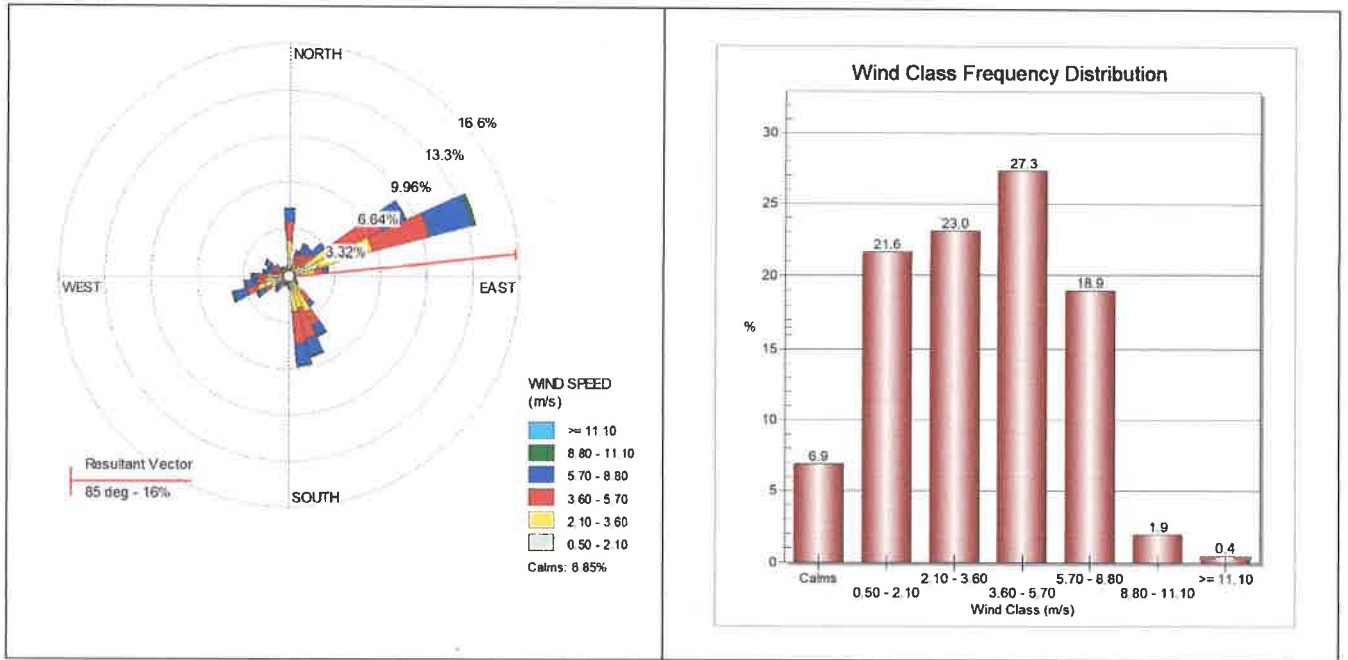


Figure No: 1.2 Wind Rose Diagram from 06 – 14 Hours

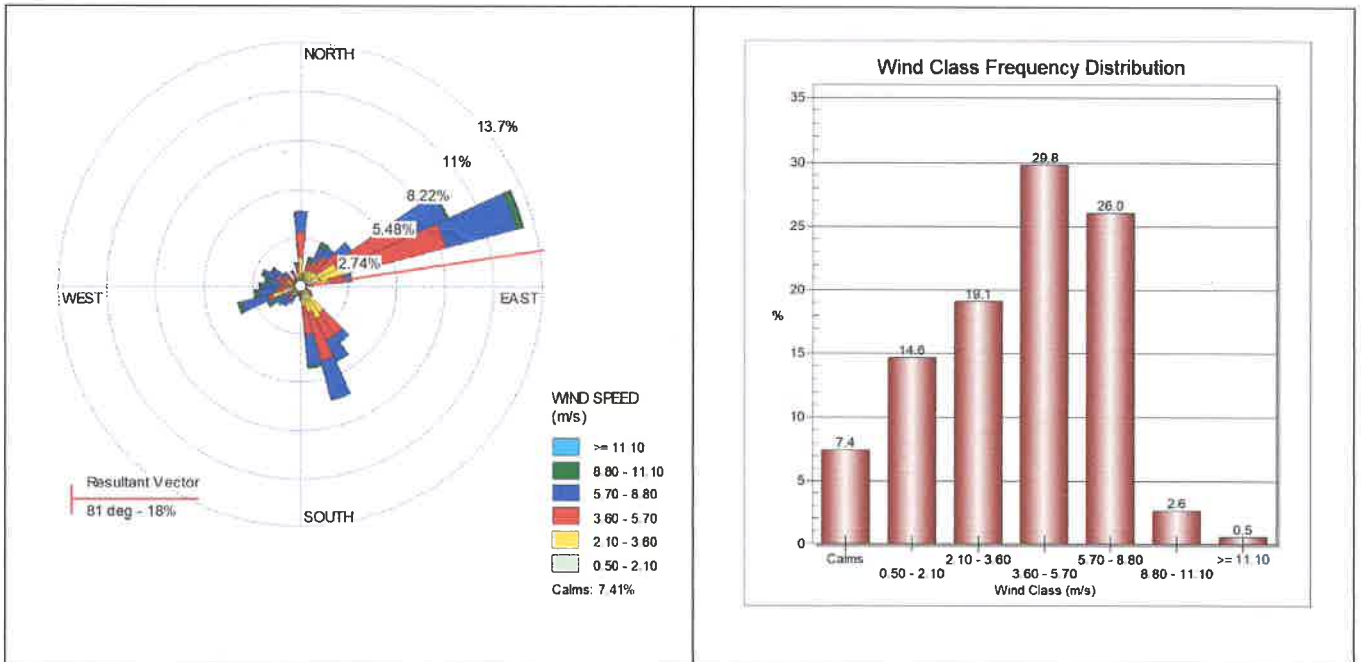


Figure No: 1.3

Wind Rose Diagram from 14 – 22 Hours

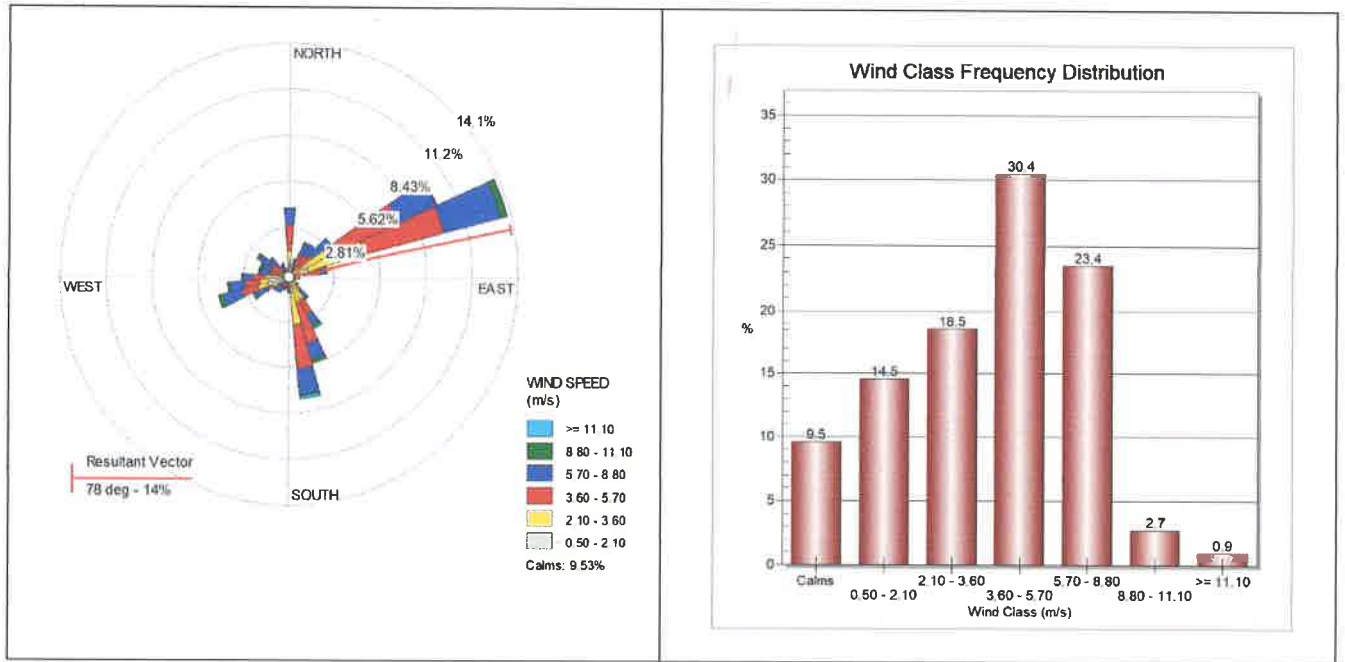


Figure No: 1.4

Wind Rose Diagram from 22 – 06 Hours

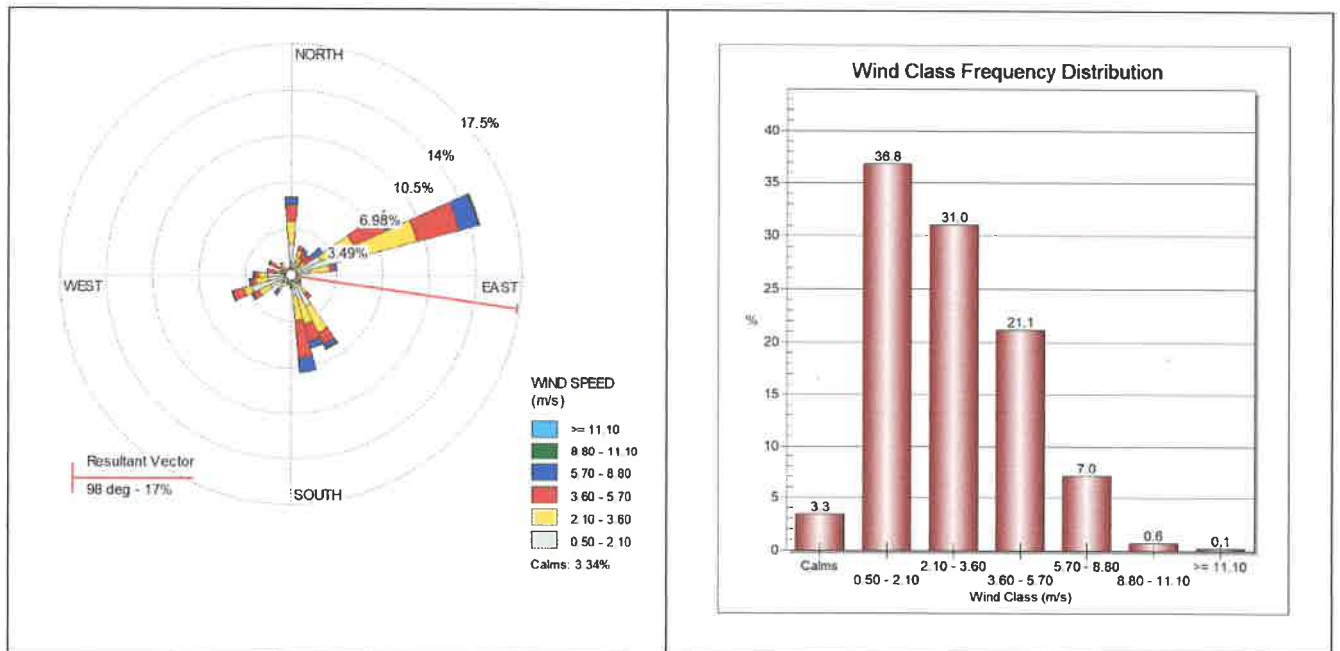


Table No: 1

AMBIENT AIR QUALITY DATA
From 01.04.2024 to 30.09.2024

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
April	23	67	04	25	< 0.1
	25	73	03	22	< 0.1
	22	62	05	29	< 0.1
	29	78	07	30	< 0.1
	26	71	07	28	< 0.1
	20	69	03	30	< 0.1
	24	67	04	35	< 0.1
	27	79	06	27	< 0.1
May	21	70	18	19	< 0.1
	27	71	08	25	< 0.1
	21	60	07	20	< 0.1
	23	63	04	18	< 0.1
	23	60	03	12	< 0.1
	22	65	05	26	< 0.1
	24	62	06	22	< 0.1
	28	84	06	22	< 0.1
June	26	70	04	25	< 0.1
	23	74	05	20	< 0.1
	28	82	04	25	< 0.1
	24	72	03	25	< 0.1
	26	78	06	22	< 0.1
	27	85	06	25	< 0.1
	25	70	07	23	< 0.1
	22	73	08	26	< 0.1
July	27	80	05	28	< 0.1
	24	70	05	22	< 0.1
	23	64	04	20	< 0.1
	15	50	06	22	< 0.1
	20	57	04	23	< 0.1
	23	60	05	28	< 0.1
	26	68	06	23	< 0.1
	21	62	03	18	< 0.1
August	19	58	< 03	19	< 0.1
	22	69	03	20	< 0.1
	18	49	04	30	< 0.1
	11	32	07	24	< 0.1
	18	56	03	32	< 0.1
	20	64	03	19	< 0.1
	21	61	03	22	< 0.1
	11	33	03	26	< 0.1
17	47	03	16	< 0.1	
22	63	03	13	< 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
September	04	11	04	17	< 0.1
	22	62	05	13	< 0.1
	27	78	09	28	< 0.1
	18	53	07	21	< 0.1
	20	57	07	29	< 0.1
	14	40	06	35	< 0.1
	22	62	05	21	< 0.1
	26	73	04	19	< 0.1
	16	45	08	24	< 0.1

Table No: 2

AMBIENT AIR QUALITY DATA

From 01.04.2024 to 30.09.2024

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
April	22	64	03	16	< 0.1
	26	70	05	29	< 0.1
	28	75	08	30	< 0.1
	26	77	05	28	< 0.1
	24	75	06	22	< 0.1
	24	72	04	32	< 0.1
	25	70	05	35	< 0.1
	22	64	06	19	< 0.1
May	24	69	06	28	< 0.1
	20	57	04	15	< 0.1
	26	73	06	25	< 0.1
	21	62	08	24	< 0.1
	23	72	06	19	< 0.1
	25	62	07	22	< 0.1
	22	69	05	20	< 0.1
	22	68	06	28	< 0.1
June	23	69	03	25	< 0.1
	22	68	05	28	< 0.1
	26	73	04	20	< 0.1
	29	82	04	20	< 0.1
	25	74	05	22	< 0.1
	28	84	08	32	< 0.1
	21	60	06	24	< 0.1
	24	76	03	26	< 0.1
July	23	77	06	22	< 0.1
	23	66	< 03	16	< 0.1
	23	68	03	22	< 0.1
	24	70	04	18	< 0.1
	22	68	03	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
	26	73	05	20	< 0.1
	25	74	05	18	< 0.1
	21	60	06	19	< 0.1
	20	60	04	17	< 0.1
	27	75	06	21	< 0.1
August	10	25	04	14	< 0.1
	11	31	05	34	< 0.1
	06	20	07	17	< 0.1
	21	61	< 03	11	< 0.1
	19	41	03	29	< 0.1
	24	69	03	18	< 0.1
	13	44	03	29	< 0.1
	25	68	06	20	< 0.1
September	24	67	03	27	< 0.1
	12	36	04	19	< 0.1
	20	57	04	17	< 0.1
	22	61	04	15	< 0.1
	24	69	04	17	< 0.1
	13	36	04	27	< 0.1
	26	74	05	21	< 0.1
	28	80	07	24	< 0.1
10	26	06	19	< 0.1	

Table No: 3

AMBIENT AIR QUALITY DATA
From 01.04.2024 to 30.09.2024

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
April	27	81	07	25	< 0.1
	29	83	03	19	< 0.1
	23	70	05	21	< 0.1
	34	82	08	25	< 0.1
	30	85	04	28	< 0.1
	28	79	06	29	< 0.1
	28	72	05	37	< 0.1
	29	82	07	22	< 0.1
May	27	77	07	29	< 0.1
	29	83	07	24	< 0.1
	28	76	08	27	< 0.1
	29	83	08	28	< 0.1
	25	69	08	32	< 0.1
	26	70	06	20	< 0.1
	30	86	05	22	< 0.1
	26	85	07	25	< 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
June	27	79	05	28	< 0.1
	26	78	06	22	< 0.1
	28	80	06	25	< 0.1
	27	81	07	25	< 0.1
	30	81	04	22	< 0.1
	32	88	09	28	< 0.1
	29	83	05	20	< 0.1
	25	76	03	19	< 0.1
	28	82	08	26	< 0.1
July	25	72	03	21	< 0.1
	27	77	04	28	< 0.1
	22	67	05	24	< 0.1
	25	72	04	22	< 0.1
	27	77	03	20	< 0.1
	23	68	05	25	< 0.1
	26	70	06	23	< 0.1
	24	66	03	25	< 0.1
	26	70	06	23	< 0.1
August	10	29	09	27	< 0.1
	14	39	03	10	< 0.1
	13	39	03	46	< 0.1
	17	47	06	32	< 0.1
	14	40	03	26	< 0.1
	16	47	04	17	< 0.1
	20	58	03	18	< 0.1
	23	67	04	19	< 0.1
	19	55	03	36	< 0.1
September	19	52	04	18	< 0.1
	14	39	07	22	< 0.1
	20	59	03	25	< 0.1
	23	66	03	25	< 0.1
	21	61	08	46	< 0.1
	28	79	09	28	< 0.1
	23	68	08	33	< 0.1
	11	32	04	18	< 0.1

Table No: 4

AMBIENT AIR QUALITY DATA
From 01.04.2024 to 30.09.2024

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
April	28	84	08	23	< 0.1
	32	88	06	30	< 0.1
	27	82	05	29	< 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
	30	84	09	29	< 0.1
	30	85	09	35	< 0.1
	25	79	04	26	< 0.1
	30	85	06	35	< 0.1
	24	76	05	20	< 0.1
May	29	86	04	15	< 0.1
	28	73	06	26	< 0.1
	24	71	07	26	< 0.1
	29	80	07	32	< 0.1
	26	77	04	19	< 0.1
	25	75	08	30	< 0.1
	27	72	03	20	< 0.1
	23	70	06	21	< 0.1
June	27	76	05	22	< 0.1
	28	83	05	25	< 0.1
	26	77	05	20	< 0.1
	28	83	05	25	< 0.1
	24	77	04	28	< 0.1
	27	78	04	22	< 0.1
	25	70	06	22	< 0.1
	27	79	07	26	< 0.1
July	26	79	03	24	< 0.1
	28	78	04	20	< 0.1
	25	74	06	24	< 0.1
	26	72	06	20	< 0.1
	23	66	04	20	< 0.1
	24	68	05	24	< 0.1
	23	70	06	22	< 0.1
	23	64	03	26	< 0.1
August	12	65	04	23	< 0.1
	27	76	03	21	< 0.1
	25	72	05	19	< 0.1
	24	70	05	19	< 0.1
	10	29	05	20	< 0.1
	20	57	04	21	< 0.1
	15	42	04	22	< 0.1
	21	60	05	20	< 0.1
September	06	18	04	18	< 0.1
	21	59	04	13	< 0.1
	17	49	03	31	< 0.1
	23	66	04	19	< 0.1
	24	70	03	21	< 0.1
	24	68	03	22	< 0.1
	25	67	05	18	< 0.1
	25	71	04	33	< 0.1
19	55	04	21	< 0.1	
24	69	03	22	< 0.1	
20	58	07	25	< 0.1	

Table No: 5

AMBIENT AIR QUALITY DATA
From 01.04.2024 to 30.09.2024

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
April	28	81	04	29	< 0.1
	26	75	03	32	< 0.1
	30	83	05	27	< 0.1
	28	72	06	30	< 0.1
	25	72	04	26	< 0.1
	27	79	06	28	< 0.1
	29	78	04	29	< 0.1
	26	76	07	28	< 0.1
May	24	76	03	11	< 0.1
	23	75	04	18	< 0.1
	21	60	08	26	< 0.1
	27	79	07	25	< 0.1
	26	78	04	23	< 0.1
	25	72	05	27	< 0.1
	22	65	06	20	< 0.1
	28	80	04	29	< 0.1
30	87	04	32	< 0.1	
June	28	75	05	27	< 0.1
	25	70	03	21	< 0.1
	25	70	03	21	< 0.1
	24	85	04	23	< 0.1
	26	78	04	28	< 0.1
	22	68	07	26	< 0.1
	26	78	06	28	< 0.1
	27	80	05	24	< 0.1
July	24	70	04	15	< 0.1
	22	65	03	19	< 0.1
	23	67	04	25	< 0.1
	25	71	06	21	< 0.1
	26	68	05	18	< 0.1
	25	72	06	22	< 0.1
	20	60	< 03	16	< 0.1
	21	62	05	16	< 0.1
19	55	03	20	< 0.1	
August	24	69	08	30	< 0.1
	10	27	03	13	< 0.1
	24	68	06	20	< 0.1
	24	68	08	28	< 0.1
	08	23	< 03	17	< 0.1
	11	31	04	16	< 0.1
	19	55	04	18	< 0.1
	18	51	03	27	< 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
September	21	61	03	19	< 0.1
	12	35	04	11	< 0.1
	24	67	04	28	< 0.1
	20	57	04	19	< 0.1
	16	47	05	21	< 0.1
	12	36	04	25	< 0.1
	24	68	03	30	< 0.1
	17	47	04	30	< 0.1
	15	43	04	16	< 0.1

Table No: 6

AMBIENT AIR QUALITY DATA

From 01.04.2024 to 30.09.2024

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
April	24	70	06	21	< 0.1
	30	81	08	25	< 0.1
	28	83	07	24	< 0.1
	31	79	08	24	< 0.1
	26	78	05	30	< 0.1
	25	73	07	32	< 0.1
	25	78	03	36	< 0.1
	24	68	06	27	< 0.1
May	24	68	04	19	< 0.1
	25	73	08	26	< 0.1
	29	81	06	18	< 0.1
	22	65	08	28	< 0.1
	25	76	06	23	< 0.1
	23	70	05	22	< 0.1
	26	72	04	20	< 0.1
	27	73	05	22	< 0.1
June	26	78	05	29	< 0.1
	28	72	05	22	< 0.1
	25	74	06	25	< 0.1
	26	75	04	20	< 0.1
	24	70	03	18	< 0.1
	24	73	05	22	< 0.1
	23	69	08	23	< 0.1
	27	73	07	21	< 0.1
July	29	80	06	28	< 0.1
	21	65	04	18	< 0.1
	20	58	05	20	< 0.1
	24	68	03	20	< 0.1
	22	66	05	24	< 0.1
25	78	03	28	< 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	67	06	19	< 0.1
	26	73	08	25	< 0.1
	22	63	04	20	< 0.1
	24	70	07	22	< 0.1
August	23	72	07	26	< 0.1
	24	67	05	20	< 0.1
	07	19	05	32	< 0.1
	23	67	07	33	< 0.1
	17	48	05	16	< 0.1
	09	27	04	29	< 0.1
	23	66	03	27	< 0.1
	21	60	05	29	< 0.1
September	23	66	03	27	< 0.1
	21	60	05	21	< 0.1
	21	60	07	24	< 0.1
	17	49	04	25	< 0.1
	21	60	07	21	< 0.1
	18	51	04	21	< 0.1
	24	69	05	19	< 0.1
	22	64	03	31	< 0.1
	11	30	03	27	< 0.1

Table No 7:

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
April	Coal Mill – 1 Bag Filter	15	-	-	-
	Cooler ESP – 1	24	-	-	-
	CVRM – 1 Bag Filter	05	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	06	-	-	-
	Cooler ESP – 2	08	-	-	-
	Kiln & VRM ESP – 1	10	26.71	230.29	-
	Kiln & VRM – 2 RABH	08	14.62	197.53	-
	Boiler 1 & 2 ESP Stack	32	484.36	211.65	< 0.02
	Clinker Cooler Attached To ESP (DSP Unit)	16	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	06	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	08	61.08	173.01	-
May	Coal Mill – 1 Bag Filter	08	08	-	-
	Cooler ESP – 1	19	19	-	-
	CVRM – 1 Bag Filter	06	06	-	-
	CVRM – 2 Bag Filter	07	07	-	-
	CVRM – 3 Bag Filter	05	05	-	-
	Coal Mill – 2 Bag Filter	18	18	-	-
	Cooler ESP – 2	12	12.00	-	-
	Kiln & VRM ESP – 1	07	48.82	235.96	-

Months	Location of sampling	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ mg/Nm ³	Hg mg/Nm ³
	Kiln & VRM – 2 RABH	04	29.30	206.7	-
	Boiler 1 & 2 ESP Stack	10	452.95	224.2	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	27	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	17	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	08	51.84	167.6	-
June	Coal Mill – 1 Bag Filter	07	-	-	-
	Cooler ESP – 1	16	-	-	-
	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	08	-	-	-
	CVRM – 3 Bag Filter	06	-	-	-
	Coal Mill – 2 Bag Filter	21	-	-	-
	Cooler ESP – 2	24	-	-	-
	Kiln & VRM ESP – 1	07	31.71	270.62	-
	Kiln & VRM – 2 RABH	06	41.44	213.14	-
	Boiler 1 & 2 ESP Stack	22	469.44	304.35	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	06	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	18	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	07	57.87	159.60	-
	July	Coal Mill – 1 Bag Filter	14	-	-
Cooler ESP – 1		19	-	-	-
CVRM – 1 Bag Filter		11	-	-	-
CVRM – 2 Bag Filter		09	-	-	-
CVRM – 3 Bag Filter		06	-	-	-
Coal Mill – 2 Bag Filter		21	-	-	-
Cooler ESP – 2		19	-	-	-
Kiln & VRM ESP – 1		12	41.83	193.74	-
Kiln & VRM – 2 RABH		06	61.7	232.48	-
Boiler 1 & 2 ESP Stack		09	444.88	265.37	< 0.02
Clinker Cooler Attached To ESP(DSP Unit)		14	-	-	-
Coal Mill Attached To Bag Filter(DSP Unit)		06	-	-	-
Kiln & Raw Mill RABH (DSP Unit)		15	25.44	167.99	-
August	Coal Mill – 1 Bag Filter	18	-	-	-
	Cooler ESP – 1	28	-	-	-
	CVRM – 1 Bag Filter	12	-	-	-
	CVRM – 2 Bag Filter	09	-	-	-
	CVRM – 3 Bag Filter	23	-	-	-
	Coal Mill – 2 Bag Filter	25	-	-	-
	Cooler ESP – 2	08	-	-	-
	Kiln & VRM ESP – 1	12	47.26	222.32	-
	Kiln & VRM – 2 RABH	10	38.61	201.35	-
	Boiler 1 & 2 ESP Stack	34	460.66	319.51	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	24	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	08	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	21	41.42	180.30	-
September	Coal Mill – 1 Bag Filter	06	-	-	-
	Cooler ESP – 1	15	-	-	-
	CVRM – 1 Bag Filter	11	-	-	-
	CVRM – 2 Bag Filter	10	-	-	-
	CVRM – 3 Bag Filter	06	-	-	-

Months	Location of sampling	PM mg/Nm ³	SO ₂ mg/Nm ³	NO ₂ mg/Nm ³	Hg mg/Nm ³
	Coal Mill – 2 Bag Filter	26	-	-	-
	Cooler ESP – 2	08	-	-	-
	Kiln & VRM ESP – 1	16	28.71	157.30	-
	Kiln & VRM – 2 RABH	10	45.54	200.19	-
	Boiler 1 & 2 ESP Stack	19	434.26	307.44	< 0.02
	Clinker Cooler Attached To ESP(DSP Unit)	21	-	-	-
	Coal Mill Attached To Bag Filter(DSP Unit)	12	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	09	18.06	171.60	-

Table No 8:

GROUND WATER QUALITY RESULT FOR THE MONTH OF APRIL 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 DailyMarket	Tube Well Village Rani Bandha		
1	Turbidity	3.1	3.5	5.2	0.60	0.10	NTU	5.0
2	pH Value	7.09	6.62	6.83	6.89	6.56	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	448.8	175.44	333.25	375.16	167.28	mg/l	600
4	Iron (as Fe)	0.10	0.14	0.28	0.19	0.11	mg/l	0.3
5	Chlorides (as Cl)	267.07	15.76	73.91	57.16	42.38	mg/l	1000
6	Total Dissolved Solids	1094	238	546	550	266	mg/l	2000
7	Electrical Conductivity	1843	377	868	873	422	µS/cm	-
8	Calcium (as Ca)	89.94	44.15	81.44	121.01	47.42	mg/l	200
9	Magnesium (as Mg)	54.53	15.86	31.60	17.85	11.89	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)	166.64	21.11	91.54	103.69	25.34	mg/l	400
13	Total Nitrate (as NO ₃)	40.12	3.93	8.73	16.64	6.23	mg/l	45
14	Total Alkalinity (as CaCO ₃)	408	148	216	204	132	mg/l	600
15	Acidity	46	20	28	32	28	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)	39.02	4.73	33.99	18.68	8.09	mg/l	-
18	Potassium (as K)	3.18	2.26	1.33	3.18	1.30	mg/l	-
19	Fluoride (as F)	0.90	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	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 9:

GROUND WATER QUALITY RESULT FOR THE MONTH OF MAY 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	3.1	2.4	4.2	0.80	1.6	NTU	5.0
2	pH Value	7.20	6.72	6.80	6.99	6.56	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	170.69	134.41	345.44	333.25	146.30	mg/l	600
4	Iron (as Fe)	0.07	0.28	0.26	0.29	0.09	mg/l	0.3
5	Chlorides (as Cl)	15.76	19.71	57.16	62.08	34.49	mg/l	1000
6	Total Dissolved Solids	239	200	478	546	246	mg/l	2000
7	Electrical Conductivity	408	328	747	848	390	µS/cm	-
8	Calcium (as Ca)	53.75	45.61	81.44	81.44	45.61	mg/l	200
9	Magnesium (as Mg)	8.88	5.01	34.56	31.60	7.89	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)	30.18	17.10	40.64	90.19	23.67	mg/l	400
13	Total Nitrate (as NO ₃)	< 2.20	3.98	3.46	5.92	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	100	96	228	232	108	mg/l	600
15	Acidity	04	28	46	40	38	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)	17.56	8.06	24.08	34.11	10.46	mg/l	-
18	Potassium (as K)	2.32	1.61	2.76	2.99	0.89	mg/l	-
19	Fluoride (as F)	0.70	1.0	0.90	1.0	0.60	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	30.4	30.1	30.3	30.6	30.2	°C	-
32	Residual Free Chlorine	0.09	0.14	0.76	0.24	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 10:

GROUND WATER QUALITY RESULT FOR THE MONTH OF JUNE 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	2.4	2.4	3.9	0.70	1.4	NTU	5.0
2	pH Value	6.69	6.86	6.62	6.87	6.49	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	390.14	532.38	316.99	256.03	134.41	mg/l	600
4	Iron (as Fe)	0.20	0.21	0.26	0.24	0.26	mg/l	0.3
5	Chlorides (as Cl)	56.17	260.17	50.26	46.32	21.68	mg/l	1000
6	Total Dissolved Solids	523	996	470	436	184	mg/l	2000
7	Electrical Conductivity	853	1651	779	675	328	µS/cm	-
8	Calcium (as Ca)	89.58	182.43	79.81	68.41	45.61	mg/l	200
9	Magnesium (as Mg)	40.48	18.76	28.64	14.81	5.01	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)	81.04	134.70	89.11	79.10	16.10	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 Gate	Tube Well Village Ranibandha		
13	Total Nitrate (as NO ₃)	25.95	30.14	3.58	5.49	3.98	mg/l	45
14	Total Alkalinity (as CaCO ₃)	200	308	180	200	132	mg/l	600
15	Acidity	26	20	14	24	28	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)	26.82	47.24	34.41	20.19	8.99	mg/l	-
18	Potassium (as K)	0.95	3.18	1.15	0.79	1.62	mg/l	-
19	Fluoride (as F)	1.0	0.80	1.0	0.90	0.70	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	29.6	32.7	32.6	31.6	30.2	°C	-
32	Residual Free Chlorine	0.19	0.16	0.20	0.32	0.12	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 11:

GROUND WATER QUALITY RESULT FOR THE MONTH OF JULY 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	3.1	2.9	4.1	0.50	0.40	NTU	5.0
2	pH Value	6.80	6.67	6.96	6.93	6.55	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	522.19	174.06	311.69	380.51	206.45	mg/l	600
4	Iron (as Fe)	0.24	0.11	0.24	0.19	0.22	mg/l	0.3
5	Chlorides (as Cl)	201.55	11.74	35.22	51.86	32.29	mg/l	1000
6	Total Dissolved Solids	891	214	426	492	250	mg/l	2000
7	Electrical Conductivity	1396	342	705	795	401	µS/cm	-
8	Calcium (as Ca)	194.69	47.05	74.63	116.82	51.91	mg/l	200
9	Magnesium (as Mg)	8.85	13.77	30.49	21.64	18.68	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)	150.29	13.01	64.11	81.16	21.46	mg/l	400
13	Total Nitrate (as NO ₃)	40.24	3.93	5.49	23.09	2.23	mg/l	45
14	Total Alkalinity (as CaCO ₃)	252	128	176	164	112	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)	39.42	8.40	35.52	30.36	13.54	mg/l	-
18	Potassium (as K)	2.10	2.64	2.49	1.49	1.20	mg/l	-
19	Fluoride (as F)	0.90	0.70	1.0	1.0	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

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of
		Agreeable	Agreeable	Agreeable	Agreeable	Agreeable		
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	30.3	30.4	30.4	30.4	30.4	°C	-
32	Residual Free Chlorine	0.32	0.20	0.28	0.26	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 12:

GROUND WATER QUALITY RESULT FOR THE MONTH OF AUGUST 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	3.8	2.5	4.4	0.40	0.40	NTU	5.0
2	pH Value	6.64	6.79	6.76	6.78	6.66	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	425.04	137.63	275.26	352.18	210.49	mg/l	600
4	Iron (as Fe)	0.22	0.22	0.10	0.29	0.29	mg/l	0.3
5	Chlorides (as Cl)	79.25	21.53	45.01	54.79	31.31	mg/l	1000
6	Total Dissolved Solids	568	220	435	492	252	mg/l	2000
7	Electrical Conductivity	901	360	692	770	410	µS/cm	-
8	Calcium (as Ca)	84.37	47.05	71.39	110.33	53.54	mg/l	200
9	Magnesium (as Mg)	52.14	4.92	23.61	18.69	18.69	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO ₄)	104.26	19.20	62.48	80.16	23.34	mg/l	400
13	Total Nitrate (as NO ₃)	29.91	3.46	4.43	10.85	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	196	112	208	192	108	mg/l	600
15	Acidity	20	22	30	24	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)	14.96	8.52	27.94	21.20	13.49	mg/l	-
18	Potassium (as K)	2.52	1.74	2.24	1.34	1.56	mg/l	-
19	Fluoride (as F)	0.70	0.97	0.76	0.84	0.49	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	26.9	28.1	26.9	26.9	28.1	°C	-
32	Residual Free Chlorine	0.28	0.20	0.24	0.21	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 13:

GROUND WATER QUALITY RESULT FOR THE MONTH OF SEPTEMBER 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	2.9	2.7	4.4	0.30	1.4	NTU	5.0
2	pH Value	6.59	6.63	6.62	6.89	6.78	-	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 Surudih	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
3	Total Hardness (as CaCO ₃)	504	189.50	310.46	379.01	322.56	mg/l	600
4	Iron (as Fe)	0.32	0.10	0.10	0.27	0.22	mg/l	0.3
5	Chlorides (as Cl)	98.82	18.59	43.05	64.58	50.88	mg/l	1000
6	Total Dissolved Solids	794	243	468	567	407	mg/l	2000
7	Electrical Conductivity	1349	372	717	871	680	µS/cm	-
8	Calcium (as Ca)	92.11	51.71	77.56	108.27	84.03	mg/l	200
9	Magnesium (as Mg)	66.63	14.69	28.41	26.46	27.43	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)	109.41	13.82	51.02	92.25	56.55	mg/l	400
13	Total Nitrate (as NO ₃)	40.12	3.05	5.43	20.24	3.27	mg/l	45
14	Total Alkalinity (as CaCO ₃)	352	148	240	224	160	mg/l	600
15	Acidity	32	12	16	28	10	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)	24.89	7.79	26.46	20.05	20.76	mg/l	-
18	Potassium (as K)	9.64	2.45	11.62	10.14	2.66	mg/l	-
19	Fluoride (as F)	0.95	0.74	0.94	0.83	0.76	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	28.3	28.6	28.4	28.9	28.5	°C	-
32	Residual Free Chlorine	0.24	0.17	0.16	0.11	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 APRIL 2024

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012	
		General Office Ground Floor drinking water	Drinking Water Point VRM Area (Line - 2)	Atithi Niwas drinking Water (L - 2)	General Office 2 nd Floor Drinking Water Point (Line - 1)	Drinking Water Point Near New Weigh Bridge (DSP Unit)			Drinking Water Near CCR Building Canteen (DSP Unit)
1	Turbidity	0.80	0.60	0.20	0.10	0.90	1.1	NTU	5.0
2	pH Value	7.46	7.60	7.79	7.79	7.28	7.73	-	6.5 - 8.5
3	Total Hardness (as CaCO ₃)	191.76	182.88	183.6	182.88	191.76	195.84	mg/l	600
4	Iron (as Fe)	0.28	0.24	0.29	0.14	0.28	0.26	mg/l	0.3
5	Chlorides (as Cl)	36.46	20.69	19.71	18.72	8.87	21.68	mg/l	1000
6	Total Dissolved Solids	282	266	269	235	264	263	mg/l	2000
7	Electrical Conductivity	436	415	424	373	416	423	µS/cm	-
8	Calcium (as Ca)	53.96	40.72	42.52	40.72	47.42	42.52	mg/l	200
9	Magnesium (as Mg)	13.88	19.75	34.28	19.75	17.84	21.81	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO ₄)	18.36	18.96	19.59	12.37	19.16	19.44	mg/l	400
13	Total Nitrate (as NO ₃)	2.95	3.36	< 2.20	< 2.20	3.15	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	164	172	160	152	184	168	mg/l	600
15	Acidity	14	04	10	< 2.0	10	10	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)	7.41	9.27	7.48	10.31	7.44	7.45	mg/l	-
18	Potassium (as K)	3.27	5.24	3.43	1.56	3.35	3.28	mg/l	-
19	Fluoride (as F)	0.60	0.50	0.70	0.30	0.60	0.80	mg/l	1.5

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		General Office Ground Floor drinking water	Drinking Water Point VRM Area (Line - 2)	Atithi Niwas drinking Water (L - 2)	General Office 2 nd Floor Drinking Water Point(Line - 1)	Drinking Water Point Near New Weigh Bridge(DSP Unit)	Drinking Water Near CCR Building Canteen (DSP Unit)		
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	24.3	24.3	24.3	24.3	26.9	27.3	°C	-
32	Residual Free Chlorine	0.19	0.20	0.18	0.24	0.16	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 MAY 2024

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near Cooler Drinking Water Point(Line - 1)	Drinking Water Near CCR Building Canteen(Line - 1)	Workers' CanteenDrinking Water Point (Line - 2)	CCR Building 1 st Floor Pantry Room Drinking Water(Line - 1)	Drinking Water Point Near Cooler(DSP Unit)	Drinking Water Near General Store (DSP Unit)		
1	Turbidity	1.0	0.10	0.10	0.10	0.10	0.80	NTU	5.0
2	pH Value	7.57	7.56	7.36	7.75	7.40	7.54	-	6.5 - 8.5
3	Total Hardness (as CaCO ₃)	182.88	174.75	211.33	166.62	207.26	182.88	mg/l	600
4	Iron (as Fe)	0.16	0.26	0.10	0.29	0.14	0.28	mg/l	0.3
5	Chlorides (as Cl)	23.65	20.69	23.65	15.76	22.66	12.8	mg/l	1000
6	Total Dissolved Solids	242	240	238	229	248	236	mg/l	2000
7	Electrical Conductivity	384	384	377	363	394	393	µS/cm	-
8	Calcium (as Ca)	40.72	43.97	47.24	47.24	48.86	42.35	mg/l	200
9	Magnesium (as Mg)	19.75	15.79	22.71	11.84	20.74	18.76	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)	13.56	19.46	15.49	14.24	14.68	15.29	mg/l	400
13	Total Nitrate (as NO ₃)	< 2.20	< 2.20	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	128	132	108	128	124	132	mg/l	600
15	Acidity	18	< 2.0	< 2.0	06	< 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)	8.11	4.94	11.96	4.24	12.11	4.73	mg/l	-
18	Potassium (as K)	3.14	1.98	3.46	2.24	3.38	2.26	mg/l	-
19	Fluoride (as F)	0.60	0.70	0.30	0.60	0.40	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	30.8	30.8	30.6	30.7	30.7	30.8	°C	-
32	Residual Free Chlorine	0.11	0.19	0.16	0.14	0.14	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 JUNE 2024

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near CPP Office (Line - 2)	Drinking Water Near Clinker Silo (Line - 1)	Central Workshop/Drinking Water Point (Line - 2)	Near AFR Area Drinking Water Point (Line - 2)	Drinking Water Point Near Workers' Canteen (DSP Unit)	Drinking Water Near Coal Mill (DSP Unit)		
1	Turbidity	1.1	0.70	0.50	0.10	0.10	0.30	NTU	5.0
2	pH Value	6.86	7.61	7.55	7.47	7.32	7.49	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	223.52	219.46	207.26	211.33	170.69	199.14	mg/l	600
4	Iron (as Fe)	0.26	0.22	0.26	0.18	0.24	0.29	mg/l	0.3
5	Chlorides (as Cl)	20.69	19.71	18.72	16.75	21.68	22.66	mg/l	1000
6	Total Dissolved Solids	324	298	288	243	295	295	mg/l	2000
7	Electrical Conductivity	532	495	465	495	506	508	µS/cm	-
8	Calcium (as Ca)	50.49	58.64	47.24	47.24	53.75	45.61	mg/l	200
9	Magnesium (as Mg)	23.70	17.77	21.72	22.71	8.88	20.74	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)	44.61	18.56	21.11	29.06	49.11	20.69	mg/l	400
13	Total Nitrate (as NO ₃)	< 2.20	3.62	8.35	3.93	< 2.20	14.15	mg/l	45
14	Total Alkalinity (as CaCO ₃)	180	180	172	152	153	172	mg/l	600
15	Acidity	10	04	< 2.0	08	06	08	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)	12.92	12.84	12.61	14.62	14.26	17.11	mg/l	-
18	Potassium (as K)	7.71	8.06	8.46	3.29	8.79	9.06	mg/l	-
19	Fluoride (as F)	0.60	0.70	0.80	0.50	0.40	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	30.5	30.5	30.5	30.5	30.5	30.5	°C	-
32	Residual Free Chlorine	0.19	0.11	0.09	0.14	0.21	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 17:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF JULY 2024

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Near KHD Section Workers' Canteen (Line - 1)	Drinking Water Point Near General Office Ground Floor	Drinking Water Point Near CPP Workers' Canteen (Line - 2)	Drinking Water Point Near Main Gate (Line - 2)	Drinking Water Point Near New Weigh Bridge (DSP Unit)	Drinking Water Point Near CCR Building 2 nd Floor Pantry Room (DSP Unit)		
1	Turbidity	0.20	0.10	0.20	0.20	0.30	0.40	NTU	5.0
2	pH Value	7.49	6.79	7.75	7.46	7.84	7.83	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	287.41	230.74	214.54	222.64	384.56	234.78	mg/l	600
4	Iron (as Fe)	0.16	0.11	0.29	0.27	0.22	0.26	mg/l	0.3
5	Chlorides (as Cl)	64.58	31.31	23.48	26.42	21.53	27.39	mg/l	1000
6	Total Dissolved Solids	295	293	268	280	274	274	mg/l	2000
7	Electrical Conductivity	476	455	442	445	438	443	µS/cm	-
8	Calcium (as Ca)	56.79	50.29	47.05	35.69	66.52	40.56	mg/l	200
9	Magnesium (as Mg)	35.41	25.58	23.61	32.46	53.11	32.46	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
		Drinking Water Near KHD Section Workers' Canteen (Line - 1)	Drinking Water Point Near General Office Ground Floor	Drinking Water Point Near CPP Workers' Canteen(Line - 2)	Drinking Water Point Near Main Gate (Line - 2)	Drinking Water Point Near New Weigh Bridge (DSP Unit)	Drinking Water Point Near CCR Building 2 nd Floor Pantry Room (DSP Unit)		
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO ₄)	15.24	14.42	15.76	19.52	13.96	21.15	mg/l	400
13	Total Nitrate (as NO ₃)	< 2.20	< 2.20	2.87	4.66	2.93	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	104	180	160	164	100	160	mg/l	600
15	Acidity	08	08	08	06	08	06	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)	12.11	11.01	10.41	13.46	10.01	9.88	mg/l	-
18	Potassium (as K)	3.38	3.24	3.14	2.41	5.16	1.68	mg/l	-
19	Fluoride (as F)	0.70	0.30	0.90	0.90	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	25.0	25.0	25.0	25.0	25.0	25.8	°C	-
32	Residual Free Chlorine	0.11	0.19	0.12	0.10	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 18:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF AUGUST 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		CCR Building Ground Floor Canteen Drinking Water Point (Line - 1)	Drinking Water Point Near CVRM - 2(Line - 1)	CCR Building 1 st Floor Pantry Room Drinking Water Point (Line - 2)	Workers' Canteen Drinking Water Point (Line - 2)	Drinking Water Point Near New General Store (DSP Unit)	Drinking Water Point Near Cooler Area(DSP Unit)		
1	Turbidity	0.10	0.10	0.10	0.90	0.10	1.0	NTU	5.0
2	pH Value	7.63	7.52	7.92	7.96	7.66	7.78	-	6.5 - 8.5
3	Total Hardness (as CaCO ₃)	202.4	259.07	194.30	226.69	222.64	198.35	mg/l	600
4	Iron (as Fe)	0.29	0.28	0.24	0.29	0.21	0.28	mg/l	0.3
5	Chlorides (as Cl)	17.61	10.76	16.75	24.46	10.76	23.48	mg/l	1000
6	Total Dissolved Solids	233	330	245	275	241	263	mg/l	2000
7	Electrical Conductivity	389	549	389	441	415	424	µS/cm	-
8	Calcium (as Ca)	45.43	58.41	43.81	53.54	40.56	32.45	mg/l	200
9	Magnesium (as Mg)	21.64	27.54	20.66	22.63	26.55	28.53	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)	23.40	94.20	22.41	16.32	41.23	12.04	mg/l	400
13	Total Nitrate (as NO ₃)	3.27	< 2.20	3.05	3.19	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	120	124	144	156	128	176	mg/l	600
15	Acidity	2.0	08	< 2.0	08	04	10	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)	9.76	5.79	9.42	13.41	3.49	9.94	mg/l	-
18	Potassium (as K)	1.52	2.42	1.56	3.54	1.24	7.04	mg/l	-
19	Fluoride (as F)	0.64	0.72	0.58	0.84	0.56	0.64	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

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		CCR Building Ground Floor Canteen Drinking Water Point (Line – 1)	Drinking Water Point Near CVRM – 2(Line – 1)	CCR Building 1 st Floor Pantry Room Drinking Water Point (Line – 2)	Workers' Canteen Drinking Water Point (Line – 2)	Drinking Water Point Near New General Store (DSP Unit)	Drinking Water Point Near Cooler Area(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	26.9	26.9	26.9	26.9	26.9	26.9	°C	-
32	Residual Free Chlorine	0.11	0.09	0.14	0.11	0.19	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 19:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF SEPTEMBER 2024

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Main Gate Canteen Drinking Water Point(Line – 1)	Drinking Water Point Near General Store Workers' Canteen(Line – 1)	Near AFR Area Drinking Water Point (Line – 2)	CPP Office 2 nd Floor Pantry Room Drinking Water Point(Line – 2)	Drinking Water Point Near Workers' Canteen (DSP Unit)	Drinking Water Point Near Coal Mill Area(DSP Unit)		
1	Turbidity	0.40	0.40	0.10	0.20	0.60	0.50	NTU	5.0
2	pH Value	7.36	7.24	7.29	7.36	7.38	7.45	-	6.5 – 8.5
3	Total Hardness (as CaCO ₃)	217.73	205.63	201.6	209.66	217.73	225.79	mg/l	600
4	Iron (as Fe)	0.29	0.28	0.16	0.14	0.22	0.26	mg/l	0.3
5	Chlorides (as Cl)	20.55	19.56	18.59	18.59	19.56	28.37	mg/l	1000
6	Total Dissolved Solids	255	243	243	248	248	252	mg/l	2000
7	Electrical Conductivity	403	400	378	381	394	408	µS/cm	-
8	Calcium (as Ca)	45.25	48.48	50.09	51.71	46.86	50.09	mg/l	200
9	Magnesium (as Mg)	25.48	20.57	18.62	19.59	24.49	24.49	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)	44.42	30.56	30.93	30.25	21.77	25.01	mg/l	400
13	Total Nitrate (as NO ₃)	3.62	< 2.20	3.93	< 2.20	3.05	< 2.20	mg/l	45
14	Total Alkalinity (as CaCO ₃)	104	120	116	124	132	120	mg/l	600
15	Acidity	04	02	06	02	04	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)	7.82	7.49	8.18	7.85	7.91	7.58	mg/l	-
18	Potassium (as K)	2.46	2.26	3.29	3.21	3.14	3.28	mg/l	-
19	Fluoride (as F)	0.89	0.51	0.50	0.74	0.82	0.65	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	28.5	28.5	27.9	28.4	28.7	28.8	°C	-
32	Residual Free Chlorine	0.11	0.14	0.08	0.10	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 20:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF APRIL 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	7.37	7.62	7.63	8.90	-	6.5 – 8.5
2	Electrical Conductivity	799	751	798	49.4	µS/cm	-
3	Total Dissolved Solids	479	451	478	32	mg/l	1500
4	Total Hardness (as CaCO ₃)	265.2	285.6	281.52	28.56	mg/l	-
5	Chlorides (as Cl)	62.08	64.06	64.06	3.94	mg/l	600
6	Sulfate (as SO ₄)	61.91	57.57	56.52	1.19	mg/l	400
7	Total Nitrate (as NO ₃)	2.76	3.76	3.14	< 2.20	mg/l	50
8	Fluoride (as F)	0.80	0.80	0.90	0.20	mg/l	1.5
9	Calcium (as Ca)	57.23	65.41	57.23	4.91	mg/l	-
10	Magnesium (as Mg)	29.74	29.74	33.71	3.96	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.39	0.54	0.44	0.10	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	6.2	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)	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 21:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF MAY 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	7.54	7.51	7.51	7.69	-	6.5 – 8.5
2	Electrical Conductivity	748	740	933	440	µS/cm	-
3	Total Dissolved Solids	449	444	560	264	mg/l	1500
4	Total Hardness (as CaCO ₃)	264.16	276.35	345.44	199.14	mg/l	-
5	Chlorides (as Cl)	62.08	49.28	62.08	23.65	mg/l	600
6	Sulfate (as SO ₄)	61.91	31.62	46.29	10.75	mg/l	400
7	Total Nitrate (as NO ₃)	3.93	3.11	2.46	2.69	mg/l	50
8	Fluoride (as F)	0.60	0.60	0.80	0.70	mg/l	1.5
9	Calcium (as Ca)	60.26	50.49	81.44	42.35	mg/l	-
10	Magnesium (as Mg)	27.65	36.54	34.56	22.72	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.39	0.42	0.39	0.19	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	6.0	6.1	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)	14.08	3.52	8.8	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 22:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JUNE 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	7.41	7.69	7.59	7.62	-	6.5 – 8.5
2	Electrical Conductivity	666	748	801	490	µS/cm	-
3	Total Dissolved Solids	400	449	480	299	mg/l	1500
4	Total Hardness (as CaCO ₃)	276.35	251.97	264.16	199.14	mg/l	-
5	Chlorides (as Cl)	48.29	45.33	52.23	21.68	mg/l	600
6	Sulfate (as SO ₄)	29.26	29.94	41.20	10.79	mg/l	400
7	Total Nitrate (as NO ₃)	< 2.20	2.69	2.39	2.24	mg/l	50
8	Fluoride (as F)	0.60	0.40	0.40	0.50	mg/l	1.5
9	Calcium (as Ca)	50.49	68.41	60.26	43.98	mg/l	-
10	Magnesium (as Mg)	36.54	19.75	27.65	21.73	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.19	0.24	0.41	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.)	6.2	6.0	6.1	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)	10.56	5.28	7.04	< 0.01	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	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	100	1000	100	Nos/100ml	5000

Table No 23:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JULY 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 (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.67	7.56	7.39	7.27	-	6.5 – 8.5
2	Electrical Conductivity	612	623	387	346	µS/cm	-
3	Total Dissolved Solids	367	374	645	208	mg/l	1500
4	Total Hardness (as CaCO ₃)	259.07	267.16	275.26	165.96	mg/l	-
5	Chlorides (as Cl)	33.26	34.24	36.20	22.50	mg/l	600
6	Sulfate (as SO ₄)	30.35	39.41	49.52	16.71	mg/l	400
7	Total Nitrate (as NO ₃)	3.40	3.0	2.98	2.76	mg/l	50
8	Fluoride (as F)	0.70	0.80	0.90	1.0	mg/l	1.5
9	Calcium (as Ca)	74.63	76.25	79.49	55.16	mg/l	-
10	Magnesium (as Mg)	17.70	18.68	18.68	6.75	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.46	0.50	0.51	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	6.2	6.1	6.2	mg/l	4
25	BOD 5 days at 20°C	01	01	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	< 0.01	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	100	1000	1000	100	Nos/100ml	5000

Table No 24:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF AUGUST 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 (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.44	7.69	7.71	7.96	-	6.5 – 8.5
2	Electrical Conductivity	620	649	692	494	µS/cm	-
3	Total Dissolved Solids	366	389	415	296	mg/l	1500
4	Total Hardness (as CaCO ₃)	259.07	271.22	319.79	246.93	mg/l	-

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
5	Chlorides (as Cl)	35.47	50.88	49.89	25.44	mg/l	600
6	Sulfate (as SO ₄)	32.17	38.42	36.64	16.04	mg/l	400
7	Total Nitrate (as NO ₃)	< 2.20	< 2.20	2.88	2.67	mg/l	50
8	Fluoride (as F)	0.62	0.76	0.70	0.84	mg/l	1.5
9	Calcium (as Ca)	74.63	63.28	79.49	55.16	mg/l	-
10	Magnesium (as Mg)	17.70	27.54	29.51	26.56	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.51	0.57	0.56	0.18	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	02	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	14.08	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	100	1000	1000	100	Nos/100ml	5000

Table No 25:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF SEPTEMBER 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	7.24	7.40	7.27	7.05	-	6.5 – 8.5
2	Electrical Conductivity	298	321	366	354	µS/cm	-
3	Total Dissolved Solids	179	193	220	212	mg/l	1500
4	Total Hardness (as CaCO ₃)	145.15	165.31	169.34	165.31	mg/l	-
5	Chlorides (as Cl)	15.65	13.69	17.61	12.72	mg/l	600
6	Sulfate (as SO ₄)	19.64	24.93	25.84	17.16	mg/l	400
7	Total Nitrate (as NO ₃)	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	50
8	Fluoride (as F)	0.58	0.60	0.61	0.64	mg/l	1.5
9	Calcium (as Ca)	37.17	42.02	38.78	38.78	mg/l	-
10	Magnesium (as Mg)	12.74	14.69	17.64	16.66	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.28	0.31	0.39	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

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	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	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)	3.52	5.28	3.52	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	100	1000	1000	100	Nos/100ml	5000

Table No 26:

26.1 EFFLUENT WATER QUALITY RESULT OF ETP INLET

SI No	Parameters	Results Obtained						Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	pH Value	7.56	7.34	7.42	7.51	7.37	7.43	-
2.	Total Suspended Solids	12.5	22.5	< 2.5	27.7	24.8	6.6	mg/l
3.	Oil & Grease	2.2	2.6	2.1	< 2.0	12.0	< 2.0	mg/l
4.	BOD 5days at 20°C	60	40	30	36	40	30	mg/l
5.	COD	184.60	122.36	92.16	110.16	24.8	92.61	mg/l

26.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET

SI No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER		
1	pH Value	7.79	7.30	7.37	7.65	7.26	7.56	5.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	2.5	< 2.5	16.8	15.6	< 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	04	12	14	08	17	11	-	mg/l
5.	COD	15.267	37.26	43.160	25.624	52.612	34.68	-	mg/l

Table No 27 :

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

SI No	Parameters	Results Obtained						Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	pH Value	7.21	7.28	8.93	8.42	8.03	7.95	-
2.	Total Suspended Solids	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	COD	55.260	42.610	38.16	45.624	44.260	46.249	mg/l
5.	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l
6.	Iron (as Fe)	0.18	0.20	0.18	0.26	0.22	0.12	mg/l

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

Sl No	Parameters	Results Obtained						Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	pH Value	7.49	6.90	7.45	7.36	8.60	7.90	-
2.	Total Suspended Solids	12.4	10.8	9.4	11.6	10.2	9.8	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	Total Nitrate (as NO ₃)	6.88	5.89	4.68	5.24	4.88	5.24	mg/l
5.	Phosphate (as PO ₄)	2.432	2.012	1.86	2.01	1.84	7.35	mg/l
6.	Total Chromium (as Cr)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
7.	Zinc (as Zn)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
8.	Residual Chlorine (as Cl ₂)	0.28	0.20	0.19	0.21	0.24	0.18	

Table No 28 :

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

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		APR	MAY	JUN	JULY	AUG	SEPT		
1	pH Value	7.50	7.46	7.82	7.62	7.25	7.38	6.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	< 2.5	< 2.5	9.4	8.2	7.8	100	mg/l
3.	BOD 5days at 20°C	10	08	06	16	24	15	30	mg/l
4.	COD	37.610	25.62	20.16	50.462	62.612	46.419	-	mg/l
5.	Fecal coliform	100	100	1000	1000	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
		APR	MAY	JUN	JULY	AUG	SEPT		
1	pH Value	7.46	7.38	7.41	7.41	7.35	7.43	6.5 – 9.0	-
2.	Total Suspended Solids	8.2	6.4	4.2	4.2	15.8	14.6	100	mg/l
3.	BOD 5days at 20°C	05	16	05	05	20	25	30	mg/l
4.	COD	16.610	49.69	16.46	16.46	52.160	91.64	-	mg/l
5.	Fecal Coliform	100	100	100	100	100	100	1000	mg/l

Table No 30:

SOIL QUALITY RESULT FOR THE MONTH OF APRIL 2024

Sl. No.	Parameter	Unit	ETP Area (Line – 1)	Truck Parking Area	STP Area (DSP Unit)
1.	Colour	-	Brownish	Greyish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.63	1.49	1.52
5.	pH (1:2 Suspension)	-	7.88	8.15	8.15
6.	Iron	mg/kg	5.2	5.4	3.92
7.	Calcium	mg/kg	182	176	158
8.	Available Potassium (as K ₂ O)	Kg/ha	153.04	224.64	273.72

Sl. No.	Parameter	Unit	ETP Area (Line – 1)	Truck Parking Area	STP Area (DSP Unit)
9.	Organic Carbon	%	0.90	1.3	0.88
10.	Available Nitrogen (as N)	Kg/ha	175.62	75.26	50.18
11.	Manganese	mg/kg	7.30	5.24	4.11
12.	Infiltration Rate	cm/hr	2.44	2.23	3.39
13.	Porosity	mg/m ³	0.25	0.28	0.192
14.	Moisture Content	%	15.6	18.6	18.9
16.	Chloride	mg/kg	0.14	0.21	0.26
17.	Sulphate	mg/kg	0.70	0.62	0.54

Table No 31:

SOIL QUALITY RESULT FOR THE MONTH OF MAY 2024

Sl. No.	Parameter	Unit	AFR Area (Line – 1)	STP Area(Line -2)	Konark Vihar Area	STP 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 Clay Loam	Silty Loam
4.	Bulk Density	gm/cm ³	1.38	1.32	1.32	1.6
5.	pH (1:2 Suspension)	-	8.30	8.32	8.14	8.06
6.	Iron	mg/kg	5.2	5.4	5.4	4.92
7.	Calcium	mg/kg	162	157	146	162
8.	Available Potassium (as K ₂ O)	Kg/ha	122.04	198.08	286.2	310.76
9.	Organic Carbon	%	0.65	0.84	1.07	0.94
10.	Available Nitrogen (as N)	Kg/ha	125.44	137.98	62.72	100.35
11.	Manganese	mg/kg	9.30	6.82	6.74	4.24
12.	Infiltration Rate	cm/hr	1.44	2.17	2.19	4.49
13.	Porosity	mg/m ³	0.28	0.21	0.24	0.192
14.	Moisture Content	%	17.6	22.4	24.2	19.6
16.	Chloride	mg/kg	0.13	0.19	0.22	0.18
17.	Sulphate	mg/kg	0.70	0.62	0.62	0.41

Table No 32:

SOIL QUALITY RESULT FOR THE MONTH OF JUNE 2024

Sl. No.	Parameter	Unit	Inside Store Yard (Line – 1)	Near AFR Area (Line – 2)	Near Weigh Bridge 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	1.24	1.38	1.32
5.	pH (1:2 Suspension)	-	7.50	8.48	7.86
6.	Iron	mg/kg	5.2	5.4	3.92
7.	Calcium	mg/kg	172	167	153
8.	Available Potassium (as K ₂ O)	Kg/ha	258.48	318	153.04
9.	Organic Carbon	%	1.23	1.10	0.88
10.	Available Nitrogen (as N)	Kg/ha	100.35	125.44	25.08
11.	Manganese	mg/kg	8.90	5.82	5.12
12.	Infiltration Rate	cm/hr	1.64	2.09	3.24
13.	Porosity	mg/m ³	0.18	0.23	0.15
14.	Moisture Content	%	16.9	21.8	13.6
16.	Chloride	mg/kg	0.17	0.27	0.17

Sl. No.	Parameter	Unit	Inside Store Yard (Line – 1)	Near AFR Area (Line – 2)	Near Weigh Bridge DSP Unit
17.	Sulphate	mg/kg	0.73	0.52	0.26

Table No 33:

SOIL QUALITY RESULT FOR THE MONTH OF JULY 2024

Sl. No.	Parameter	Unit	Water Harvesting Pond (LINE – 2)	In Front Of HR Office (Line – 1)	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	1.3	1.2	1.2
5.	pH (1:2 Suspension)	-	8.12	8.10	8.38
6.	Iron	mg/kg	4.8	5.21	5.08
7.	Calcium	mg/kg	174	179	168
8.	Available Potassium (as K ₂ O)	Kg/ha	324.96	198.08	318
9.	Organic Carbon	%	0.81	0.47	0.88
10.	Available Nitrogen (as N)	Kg/ha	238.34	62.72	112.89
11.	Manganese	mg/kg	9.61	9.23	6.02
12.	Infiltration Rate	cm/hr	6.54	4.26	5.61
13.	Porosity	mg/m ³	0.19	0.22	0.12
14.	Moisture Content	%	21.2	22.5	23.4
16.	Chloride	mg/kg	0.11	0.08	0.16
17.	Sulphate	mg/kg	0.60	0.50	0.60

Table No 34:

SOIL QUALITY RESULT FOR THE MONTH OF AUGUST 2024

Sl. No.	Parameter	Unit	ETP Area (Line – 1)	132 KVA Substation (Line – 2)	Kiskindhaban Area (Line – 1)	STP 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	1.3	1.2	1.4	1.2
5.	pH (1:2 Suspension)	-	7.36	8.02	7.60	6.42
6.	Iron	mg/kg	4.5	5.14	6.18	5.08
7.	Calcium	mg/kg	164	172	186	168
8.	Available Potassium (as K ₂ O)	Kg/ha	780.96	411.72	419.16	768.48
9.	Organic Carbon	%	0.5	1.84	1.34	2.47
10.	Available Nitrogen (as N)	Kg/ha	163.07	50.176	188.16	62.72
11.	Manganese	mg/kg	9.61	9.23	9.76	6.02
12.	Infiltration Rate	cm/hr	5.48	5.26	4.87	5.61
13.	Porosity	mg/m ³	0.31	0.29	0.26	0.12
14.	Moisture Content	%	21.2	21.6	20.25	23.4
16.	Chloride	mg/kg	0.18	0.28	0.26	0.16
17.	Sulphate	mg/kg	0.62	0.54	0.48	0.60

Table No 35:

SOIL QUALITY RESULT FOR THE MONTH OF SEPTEMBER 2024

Sl. No.	Parameter	Unit	Store Yard (Line – 1)	STP Area (Line – 2)	STP 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	1.3	1.3	1.2
5.	pH (1:2 Suspension)	-	7.52	8.08	8.40
6.	Iron	mg/kg	4.8	6.05	5.21
7.	Calcium	mg/kg	174	179	179
8.	Available Potassium (as K ₂ O)	Kg/ha	250.68	224.64	300.72
9.	Organic Carbon	%	1.10	1.62	0.81
10.	Available Nitrogen (as N)	Kg/ha	87.80	163.07	125.44
11.	Manganese	mg/kg	174	179	179
12.	Infiltration Rate	cm/hr	9.61	9.76	9.23
13.	Porosity	mg/m ³	6.54	4.77	4.26
14.	Moisture Content	%	0.18	0.33	0.19
16.	Chloride	mg/kg	21.26	22.84	22.57
17.	Sulphate	mg/kg	0.11	0.10	0.08

Table No: 36:

NOISE LEVEL MONITORING DATA

From 01.04.2024 to 30.09.2024

Month	Location	Leq dB(A) Day Time	Leq dB(A) Night Time
Apr	Main gate Near Canteen (Line – 1)	55.3	53.6
	General Store (Line – 1)	62.9	62.5
	Guest House Area	55.6	48.1
	Konark Vihar	45.1	45.0
	CPP Area (Line – 2)	64.0	62.9
	Lime Stone Transfer Point (Line – 2)	64.1	63.7
	Project Gate Area (DSP Unit)	58.1	57.4
	General Store Area (DSP Unit)	59.0	57.1
May	Main gate Near Canteen (Line – 1)	67.0	66.1
	General Store (Line – 1)	62.0	60.2
	Guest House Area	55.0	48.9
	Konark Vihar	47.7	44.4
	CCR Building Area (Line – 2)	72.4	71.9
	Workshop Area (Line – 2)	60.7	60.8
	STP Area (DSP Unit)	61.2	58.5
	AFR Storage Area (DSP Unit)	60.6	58.6
Jun	Main gate Near Canteen (Line – 1)	55.2	52.1
	B .G Loco Gate Area (Line – 1)	61.5	60.7
	Guest House Area	54.7	51.1
	Konark Vihar	53.2	56.0
	CPP Area(Line – 2)	66.3	62.5
	CCR Office Building Area (Line – 2)	63.8	63.6
	General Store Area (DSP Unit)	61.2	60.6
	Project Gate Area (DSP Unit)	62.2	60.4
Jul	Main gate Near Canteen (Line – 1)	55.2	52.1
	B .G Loco Gate Area (Line – 1)	61.5	60.7
	Guest House Area	54.7	51.1

Month	Location	L _{eq} dB(A) Day Time	L _{eq} dB(A) Night Time
	Konark Vihar	53.2	56.0
	CPP Area(Line – 2)	66.3	62.5
	CCR Office Building Area (Line – 2)	63.8	63.6
	General Store Area (DSP Unit)	61.2	60.6
	Project Gate Area (DSP Unit)	62.2	60.4
Aug	Main gate Near Canteen (Line – 1)	58.8	63.7
	B .G Loco Gate Area (Line – 1)	62.1	58.1
	Guest House Area	56.9	52.8
	Konark Vihar	49.4	42.7
	CPP Area(Line – 2)	62.6	61.6
	Atithi Niwas Arae (Line – 2)	62.3	51.9
	Project Gate Area (DSP Unit)	59.2	57.9
	General Store Area (DSP Unit)	58.6	57.2
	Sept	General Store (Line – 1)	61.4
B .G Loco Gate Area (Line – 1)		66.8	66.5
Guest House Area		61.5	44.3
Konark Vihar		51.5	37.9
CPP Area(Line – 2)		73.8	69.8
Work Shop Area (Line – 2)		58.9	57.1
AFR Storage Area (DSP Unit)		61.3	60.4
STP Area (DSP Unit)		68.4	68.0
