



TATA STEEL UTILITIES AND INFRASTRUCTURE SERVICES



Test Report of Water & Waste Water
TOWN LABORATORY
WATER MANAGEMENT DEPT.
WATER WORKS, JAIL CHOWK
GANDAK ROAD, SAKCHI JAMSHEDPUR-831001

Ref. No. WMD/LAB/TL -35/ 669 / 23
Date : 08.06.23

ULR No. TC74722300000669F

Name and Address of Customer Mr. Sanjeev Singh, Jharia Div	
Reference No. :	SAMPLING METHOD Chemical: Internal-IS 3025/External by client Microbiology: APHA 23rd Ed/External by client
SAMPLE DESCRIPTION: Water Samples SAMPLE CONDITION: Sterilised bottle SAMPLE TEMPERATURE (°C) 24.3 SAMPLE HUMIDITY (RH %) 75 TEST START DATE: 29.04.23 TEST COMPLETION DATE: 16.05.23	

CHEMICAL ANALYSIS FINDINGS :								
(Results expressed in mg / l except pH)								
Particulars	Test Method	WHO/ BIS / CPCB Norms	Sample Sl. No.					
			1	2	3	4	5	6
Turbidity (mg/l)	IS-3025: 1984, Part 10	≤ 1.0	8.1	0.8	0.9	6.5	0.8	0.7
pH	IS-3025: 1983, Part 11	7.0-8.0/ 6.5-8.5	7.8	7.4	7.4	7.8	7.4	7.4
Free Chlorine (mg/l)	IS-3025 Part 26	≥ 0.2	--	Trace	Trace	--	Trace	Trace
Calcium (mg/l)	IS-3025 Part 40	≤ 75	94.2	98.4	40.6	96.0	62.8	60.2
Alkalinity (mg/l)	IS-3025 Part 23	≤ 200	420.0	336.0	350.0	218.0	212.0	208.0
Iron (mg/l)	APHA 23rd Ed.	≤ 0.3	0.06	<0.03	<0.03	0.05	<0.03	<0.03
Aluminum (mg/l)	APHA Standard Methods 3500Al-B 23rd Ed, 2017	≤ 0.2/≤ 0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Hardness (mg/l)	IS-3025: 1983, Part 21	≤ 500/≤ 200	580.0	240.0	256.0	288.0	186.0	180.0
Total Dissolved Solid (me/l)	IS-3025: 1984, Part 16	≤ 1000 / ≤ 500	959	849	854	562	442.0	439.0
Magnesium (mg/l)	IS-3025	≤ 30	83.7	35.1	37.5	11.6	7.0	7.1
Chloride (mg/l)	IS-3025: 1988, Part 32	≤ 250	150.0	128.0	135.0	68.0	44.0	40.0

Sl. No	Lab. No.	Type of Test	Source	Collection	Arrival
				Date/ Time	Date/ Time
1	A0429174	Chem/ Bact	Raw water, WTP Malkhera	29.04.23 --	29.04.23 11.30 am
2	A0429175	Chem/ Bact	Drinking water, SQ/4 Malkhera	29.04.23 --	29.04.23 11.30 am
3	A0429176	Chem/ Bact	Drinking water, WTP, Malkhera	29.04.23 --	29.04.23 11.30 am
4	A0429177	Chem/ Bact	Raw Water, WTP, Bhelatand	29.04.23 --	29.04.23 11.30 am
5	A0429178	Chem/ Bact	Drinking Water, WTP, Bhelatand	29.04.23 --	29.04.23 11.30 am
6	A0429179	Chem/ Bact	Drinking Water, A2/2 Bhelatand colony, Bhelatand	29.04.23 --	29.04.23 11.30 am

REMARKS :

BACTERIOLOGICAL ANALYSIS :

Sample No.	Test Method	MPN of Coliforms Organisms per 100 ml of sample	MPN of Faecal coliforms in 100 ml of sample	E. coli in 100 ml of sample
1	APHA 23rd Ed. 2017	>160000	92000	92000
2	APHA 23rd Ed. 2017	Absent	Absent	Absent
3	APHA 23rd Ed. 2017	Absent	Absent	Absent
4	APHA 23rd Ed. 2017	>160000	92000	92000
5	APHA 23rd Ed. 2017	Absent	Absent	Absent
6	APHA 23rd Ed. 2017	Absent	Absent	Absent

Authorised Signatory

Microbiologist

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Tel: 7560007989

TC7472

Ref. No. WMD/LAB/TL -35/ 669 / 23
Date : 08.06.23

ULR No. TC747223000000669F

Name and Address of Customer		Mr. Sanjeev Singh, Jharia Div							SAMPLE DESCRIPTION: Water Samples						
		SAMPLING METHOD Chemical: Internal-IS 3025/External by client Microbiology: APHA 23rd Ed/External by client							SAMPLE CONDITION: Sterilised bottle SAMPLE TEMPERATURE (°C) 24.3 SAMPLE HUMIDITY (RH %) 75 TEST START DATE: 29.04.23 TEST COMPLETION DATE : 16.05.23						
CHEMICAL ANALYSIS FINDINGS :													Sample	Collection	Arrival
Particulars	Test Method	WHO/ BIS / CPCB Norms	Sample Sl. No.						Sl. No	Lab. No.	Type of Test	Source	Date/ Time	Date/ Time	
			1	2	3	4	5	6							
Copductivity (µs/cm)	IS-3025: 1983, Part 4	—	1432	1268	1276	840	710	705	1	A0429174	Chem/ Bact	Raw water, WTP Malkhera	29.04.23 --	29.04.23 11.30 am	
Copper (mg/l)	As per Doc no-TL/WATER/CHEM/007, Issue No. 00.01, Issue Date: 20.02.12	≤1.0/≤0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	2	A0429175	Chem/ Bact	Drinking water, SO/4 Malkhera	29.04.23 --	29.04.23 11.30 am	
Nickel (mg/l)	APHA Standard Methods 3500 Ni-E 22nd Ed, 2012	≤0.01/≤0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3	A0429176	Chem/ Bact	Drinking water, WTP, Malkhera	29.04.23 --	29.04.23 11.30 am	
Lead (mg/l)	As per Doc no-TL/WATER/CHEM/013, Issue No. 00.00, Issue Date: 01.02.06	≤0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	4	A0429177	Chem/ Bact	Raw Water, WTP, Bhelatand	29.04.23 --	29.04.23 11.30 am	
Fluoride (mg/l)	APHA Standard Methods 4500F-E 22nd Ed, 2012	≤1.5/≤1.0	0.58	0.31	0.43	0.88	0.71	0.68	5	A0429178	Chem/ Bact	Drinking Water, WTP, Bhelatand	29.04.23 --	29.04.23 11.30 am	
									6	A0429179	Chem/ Bact	Drinking Water, AZ/2 Bhelatand colony, Bhelatand	29.04.23 --	29.04.23 11.30 am	
									Sl. No	Test Method	MPN of Coliforms Organisms per 100 ml of sample	MPN pf Faecal coliforms in 100 ml of sample	E. coli in 100 ml of sample		

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End of Report

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