

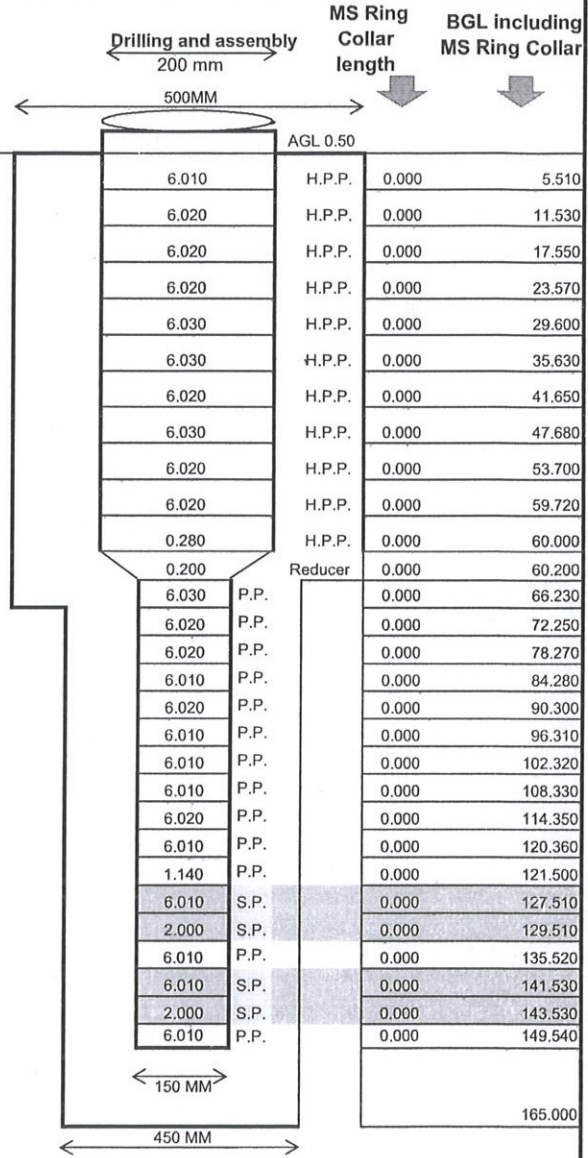
Campus of OHT

M/S VSAIPPL-SMC JV, Ghazipur (U.P.)
Actual Strata Chart of BARACHAWAR REORGANISATION WSS, BLOCK -BARACHAWAR, ZONE 5, GRAM PANCHAYAT - MOHAMMADPUR T.W-2
Under Jal Jeevan Mission, District- Ghazipur(U.P.)

PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	0	12	Clay Kankad
2	12	18	Kankad Clay
3	18	50	Very fine sand with kankad
4	50	95	Clay Kankad
5	95	102	Very fine sand with kankad
6	102	120	Kankad Clay
7	120	146	Fine Sand with Kankad
8	146	170	Kankad Clay
9	170	182	Very fine sand with kankad
10	182	194	Sandy Clay

Logging Report				
16.07.2023				
S.N.	Depth Range		Thickn ess	Quality/Remark
	From	to		
1	19	23	4	Good
2	25	30	5	Good
3	32	40	8	Good
4	90	94	4	Good
5	96	101	5	Good
6	121	130	9	Good
7	135	144	9	Good
8	171	175	4	Moderate
9	184	189	5	Moderate

Note-
 1. The water quality for these zones is given as per our logger's response and calibration.
 2. Clay kankar Inter-calations present between 42m to 50m and 78m to 88m BGL.
 3. Water quality is deteriorated from 58m to 85m.
 4. Clay Kankar Inter-calations are present again from 147m to 170m BGL.
 5. Zones 2 and 3 have bands of kankar.



DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	430.000	LPM		
2	Clear Depth of bore 600mm	0	Mbgl	0.000	Mbgl
3	Clear Depth of bore 500mm	65	Mbgl	65.000	Mbgl
4	Clear Depth of bore 450mm	360	Mbgl	194.000	Mbgl
5	Plane pipe 300MM	0	m	0.000	m
6	Plane pipe 200MM	60	m	60.500	m
7	Plane pipe 150MM	258	m	73.320	m
8	Slotted pipe 300MM	0	m	0.000	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	12	m	16.020	m
11	Date of lowering			20.07.2023	

VSAIPPL SMC JV
 Company Repre.
 M/S VSAIPPL SMC

Zaf
 (.....)
TPIA
 Medhaj Techno Concept Pvt. Ltd., Ghazipur

A
 (A.Srivastava)
 Junior Engineer
 Division Office(E/M), U.P. Jal Nigam(Rural), Varanasi

Nitish Kumar
 (Nitish Kumar)
 Assistant Engineer

Adarsh Verma
 (Adarsh Verma)
 Exe. Engineer

Geophysical Well Logging Report

Barachawan 2-5

Q = 430
60 + 258 + 12

Reference No: SIPL/ELOG/2023/144

Company: VSA INFRA
GP: MOHAMMADPUR 2ND
Block: BARACHAWAR
District: GHAZIPUR State: Uttar Pradesh

Report Date: 17th July 2023
Logging Date: 16 Jul 23
Drilled Depth (m): 360 (As informed by Driller)
Logged Depth (m): 194

Log Measured From: Ground Level / Plate

East / Long: 83.7832940

North / Lat: 25.7272690

Resistivity

Mud-Rm (Ωm) 18

Water R_w (Ωm) 19.2

REPORT

Based on the interpretation of Geophysical Logging Record Parameter of Self Potential (SP), Long Normal (N-64"), Short Normal (N-16"), Natural Gamma and single point Resistance (SPR) log data, the given borehole formation Granular zone deciphered with respect of salinity and Resistivity.

Sr. No.	Depth Range (BGL)		Thickness (M)	Quality of aquifer water	Remarks
	From (m)	To(m)			
1	19	23	4	Good	
2	25	30	5	Good	
3	32	40	8	Good	
4	90	94	4	Good	
5	96	101	5	Good	
6	121	130	9	Good	
7	135	144	9	Good	
8	171	175	4	Moderate	
9	184	189	5	Moderate	

- Notes:**
1. The water quality for these zones is given as per our logger's response and calibration
 2. Clay kankar Intercalations present between 42m to 50m and 78m to 88m BGL
 3. Water quality is deteriorated from 58m to 85m
 4. Clay Kankar Intercalations are present again from 147m to 170m BGL
 5. Zones 2 and 3 have bands of kankar

for Soiltech (India) Pvt. Ltd

for:

MANISH

Campus of OHT

M/S VSAIPPL-SMC JV, Ghazipur (U.P.)

Regd. Office-#10, APIIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072
Under Jal Jivan Mission, District- Ghazipur(U.P.)

Test Report of GP-Mohammadpur TW2 ,Zone 5 ,Block - Barachawar, Scheme-Barachawar Reorganisation WSS, Developed by 250 PSI Compressor

Size of tube well (mm):		200	X	150	RPM		1400					
Static water level (m):		8.00				Discharge by-90 'V' notch (Rectangular)						
Depth of T/W (m):		149.540				Date: of testing			30-07-2023			
S. N.	Pressure in kg/cm ²		Depression		Depth of air line at the time of testing (m)	Discharge by 'V' Notch		Sand content in P.P.M.				
	Starting Pressure	Running Pressure	In kg/cm ²	In mtr.		Inch	LPM	At start	After 5 min	After 10 min	After 15 min	After 20 min
1	13.20	12.50	0.70	7.00	142.00	7	1104	6600	3600	3400	3200	3100
2	12.60	12.00	0.60	6.00	136.00	6 1/2	917	5400	3000	2800	2600	2500
3	11.20	10.70	0.50	5.00	122.00	6	751	4800	2700	2500	2300	2100

Remark- Recommended for further development by O.P. Unit



Company Repr.
M/S VSAIPPL-SMC JV, Ghazipur
(U.P.)

(.....)
TPIA
Medhaj Techno Concept Pvt. Ltd.,
Ghazipur





(Abhishek Srivastava)
Junior Engineer

(Nitish Kumar)
Assistant Engineer

(Adarsh Verma)
Executive Engineer


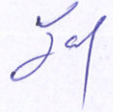
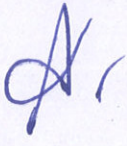

Division Office (E&M), U.P. Jal Nigam(Rural), Varanasi

M/S VSAIPPL-SMC JV,Ghazipur (U.P)

Job Code:		Compressor unit	As per DPR:	600 PSI	
Block:	BARACHAWAR	Capacity	As per Site:	250 PSI	
Scheme	BARACHAWAR REORGANISATION	Compressor unit	As per DPR:	60	
GP	MOHAMMADPUR TW 2,ZONE 5	Hours	As per Site:	57:00	
Lowering Depth(mtr):	149.54	Cumm			
		Gravel(cumt)	As per DPR:	79.33	
		Cumm			
		Gravel(cumt)	As per Site:	65.92	
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	21-Jul-23	9:30 AM	3:39 PM	6:09	
2	22-Jul-23	7:29 AM	2:04 PM	6:35	
3	23-Jul-23	10:00 AM	4:10 PM	6:10	
4	24-Jul-23	7:00 AM	1:00 PM	6:00	
5	25-Jul-23	9:00 AM	2:03 PM	5:03	
6	26-Jul-23	9:30 AM	1:28 PM	3:58	
7	27-Jul-23	7:29 AM	2:04 PM	6:35	
8	28-Jul-23	10:00 AM	4:10 PM	6:10	
9	29-Jul-23	7:00 AM	12:00 PM	5:00	
10	30-Jul-23	9:00 AM	2:20 PM	5:20	
			Total	57:00	
					
Site Incharge	TPIA	Junior Engineer	Assistant Engineer	Exe. Engineer	
M/S VSAIPPL-SMC JV,Ghazipur (U.P)	M/s Medhaj Techno Concept Pvt. Ltd.,Ghazipur	Division Office(E/M) ,U.P.Jal Nigam(Rural),Varanasi			

M/S VSAIPPL-SMC JV, Ghazipur (U.P)


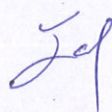
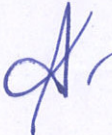
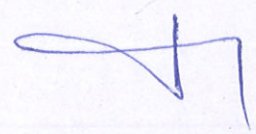
Job Code:		Op unit	As per DPR:	1 Cusec	
Block:	BARACHAWAR	Capacity	As per Site:	1 Cusec	
Scheme	BARACHAWAR REORGANISATION WSS	Op unit	As per DPR:	100	
GP	MOHAMMADPUR TW2,ZONE 5	Hours	As per Site:	98:00	
Lowering Depth(mtr):	149.540	Cumm Gravel(cumt)	As per DPR:	79.33	
Compressor Testing Date	02-08-2023	Cumm Gravel(cumt)	As per Site:	65.92	
SI No	Date	Start Time	End Time	Total Hours	Remarks
1	12-08-2023	8:25 AM	9:54 AM	1:29	
2		10:34 AM	11:55 AM	1:21	
3		12:20 PM	1:40 PM	1:20	
4		3:46 PM	5:16 PM	1:30	
5		6:00 PM	7:30 PM	1:30	
6		7:40 PM	8:50 PM	1:10	
7	13-08-2023	8:35 AM	9:52 AM	1:17	
8		10:44 AM	11:50 AM	1:06	
9		12:50 PM	1:58 PM	1:08	
10		3:56 PM	5:16 PM	1:20	
11		6:02 PM	7:10 PM	1:08	
12		7:40 PM	8:30 PM	0:50	
13	14-08-2023	8:55 AM	9:50 AM	0:55	
14		10:34 AM	11:53 AM	1:19	
15		12:50 PM	1:20 PM	0:30	

M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Job Code:		Op unit	As per DPR:	1 Cusec
Block:	BARACHAWAR	Capacity	As per Site:	1 Cusec
Scheme	BARACHAWAR REORGANISATION WSS	Op unit	As per DPR:	100
GP	MOHAMMADPUR TW2,ZONE 5	Hours	As per Site:	98:00
Lowering Depth(mtr):	149.540	Cumm Gravel(cumt)	As per DPR:	79.33
Compressor Testing Date	02-08-2023	Cumm Gravel(cumt)	As per Site:	65.92

SI No	Date	Start Time	End Time	Total Hours	Remarks
16	14-08-2023	3:56 PM	5:18 PM	1:22	
17		6:02 PM	7:10 PM	1:08	
18		7:40 PM	8:30 PM	0:50	
19	15-08-2023	8:15 AM	9:40 AM	1:25	
20		10:44 AM	11:50 AM	1:06	
21		12:50 PM	1:20 PM	0:30	
22		3:56 PM	5:18 PM	1:22	
23		6:02 PM	7:10 PM	1:08	
24		7:40 PM	8:54 PM	1:14	
25	16-08-2023	8:55 AM	10:16 AM	1:21	
26		10:44 AM	11:55 AM	1:11	
27		12:40 PM	1:50 PM	1:10	
28		3:56 PM	5:26 PM	1:30	
29		6:12 PM	7:20 PM	1:08	
30		7:40 PM	9:10 PM	1:30	

M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Job Code:		Op unit	As per DPR:	1 Cusec	
Block: BARACHAWAR		Capacity	As per Site:	1 Cusec	
Scheme BARACHAWAR REORGANISATION WSS		Op unit	As per DPR:	100	
GP MOHAMMADPUR TW2,ZONE 5		Hours	As per Site:	98:00	
Lowering Depth(mtr): 149.540		Cumm Gravel(cumt)	As per DPR:	79.33	
Compressor Testing Date 02-08-2023		Cumm Gravel(cumt)	As per Site:	65.92	
SI No	Date	Start Time	End Time	Total Hours	Remarks
31	17-08-2023	8:45 AM	10:10 AM	1:25	
32		10:44 AM	11:50 AM	1:06	
33		12:50 PM	2:20 PM	1:30	
34		3:46 PM	5:16 PM	1:30	
35		6:02 PM	7:10 PM	1:08	
36		7:50 PM	9:10 PM	1:20	
37	18-08-2023	8:35 AM	10:05 AM	1:30	
38		10:44 AM	11:55 AM	1:11	
39		12:42 PM	2:12 PM	1:30	
40		3:46 PM	5:16 PM	1:30	
41		6:12 PM	7:20 PM	1:08	
42		7:40 PM	9:00 PM	1:20	
43	19-08-2023	8:45 AM	10:10 AM	1:25	
44		10:44 AM	11:50 AM	1:06	
45		12:50 PM	2:10 PM	1:20	

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M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Job Code:		Op unit	As per DPR:	1 Cusec	
Block:	BARACHAWAR	Capacity	As per Site:	1 Cusec	
Scheme	BARACHAWAR REORGANISATION WSS	Op unit	As per DPR:	100	
GP	MOHAMMADPUR TW2,ZONE 5	Hours	As per Site:	98:00	
Lowering Depth(mtr):	149.540	Cumm Gravel(cumt)	As per DPR:	79.33	
Compressor Testing Date	02-08-2023	Cumm Gravel(cumt)	As per Site:	65.92	
SI No	Date	Start Time	End Time	Total Hours	Remarks
46	19-08-2023	3:56 PM	5:18 PM	1:22	
47		6:02 PM	7:10 PM	1:08	
48		7:40 PM	9:00 PM	1:20	
49	20-08-2023	8:55 AM	10:16 AM	1:21	
50		10:44 AM	11:55 AM	1:11	
51		12:40 PM	2:00 PM	1:20	
52		3:56 PM	5:26 PM	1:30	
53		6:12 PM	7:20 PM	1:08	
54		7:40 PM	9:00 PM	1:20	
55	21-08-2023	8:45 AM	10:00 AM	1:15	
56		10:44 AM	11:50 AM	1:06	
57		12:50 PM	2:10 PM	1:20	
58		3:56 PM	5:08 PM	1:12	
59		6:02 PM	7:10 PM	1:08	
60		7:40 PM	9:00 PM	1:20	

M/S VSAIPPL-SMC JV, Ghazipur (U.P)

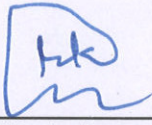
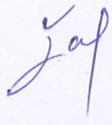
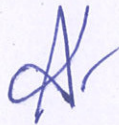
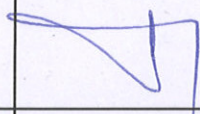
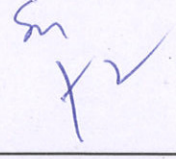
Job Code:		Op unit	As per DPR:	1 Cusec	
Block:	BARACHAWAR	Capacity	As per Site:	1 Cusec	
Scheme	BARACHAWAR REORGANISATION WSS	Op unit	As per DPR:	100	
GP	MOHAMMADPUR TW2,ZONE 5	Hours	As per Site:	98:00	
Lowering Depth(mtr):	149.540	Cumm Gravel(cumt)	As per DPR:	79.33	
Compressor Testing Date	02-08-2023	Cumm Gravel(cumt)	As per Site:	65.92	
SI No	Date	Start Time	End Time	Total Hours	Remarks
61	22-08-2023	8:45 AM	10:00 AM	1:15	
62		10:44 AM	11:50 AM	1:06	
63		12:40 PM	2:00 PM	1:20	
64		3:56 PM	5:16 PM	1:20	
65		6:12 PM	7:20 PM	1:08	
66		7:40 PM	9:00 PM	1:20	
67	23-08-2023	8:45 AM	10:10 AM	1:25	
68		10:44 AM	11:50 AM	1:06	
69		12:50 PM	2:10 PM	1:20	
70		3:56 PM	5:18 PM	1:22	
71		6:02 PM	7:10 PM	1:08	
72		7:40 PM	9:09 PM	1:29	
73		8:45 AM	10:10 AM	1:25	
74		10:44 AM	11:50 AM	1:06	
75		12:50 PM	2:10 PM	1:20	

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[Signature]

M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Job Code:		Op unit	As per DPR:	1 Cusec	
Block:	BARACHAWAR	Capacity	As per Site:	1 Cusec	
Scheme	BARACHAWAR REORGANISATION WSS	Op unit	As per DPR:	100	
GP	MOHAMMADPUR TW2,ZONE 5	Hours	As per Site:	98:00	
Lowering Depth(mtr):	149.540	Cumm Gravel(cumt)	As per DPR:	79.33	
Compressor Testing Date	02-08-2023	Cumm Gravel(cumt)	As per Site:	65.92	
SI No	Date	Start Time	End Time	Total Hours	Remarks
76	24-08-2023	3:56 PM	5:18 PM	1:22	
77		6:02 PM	7:13 PM	1:11	
78		7:40 PM	9:09 PM	1:29	
		Total		98:00	
					
Site Incharge		TPIA	Junior Engineer	Assistant Engineer	Exe. Engineer
M/S VSAIPPL-SMC JV, Ghazipur (U.P)		M/s Medhaj Techno Concept Pvt. Ltd., Ghazipur	Construction Division Office(E/M) ,U.P.Jal Nigam(Rural), Varanasi		



Quality Assurance

QA Testing Laboratories Pvt. Ltd.

(Govt. Approved Testing Laboratories)

B-76, Sector-64, Gautam Buddha Nagar, Noida-201301 (Uttar Pradesh)

Tel.: +91-120-4133953 • Mobile: +91-8287945370 • E-mail: admin@qatestinglaboratories.com

Website : www.qatestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN

IAS-ANZ



M54009131N

**An ISO 9001:2015, 14001:2015, 45001:2018 & ISO/IEC 17025:2017 Accredited Laboratory**

TEST CERTIFICATE

(This Certificate is not Valid without Hologram)



Test Report No : QAL/WT/230904001610
 Sample Name: : Tube well Water
 Sample Code : -
 Issued To : VSAIPPL-SMC JV
 District-Ghazipur.

Issue Date : 11/09/2023
 Sample Received On : 04/09/2023
 Reference No : VSAIPPL-SMC/UPJN23-24/34
 Sampling Date : 04/09/2023
 Sampling Quantity : 2 ltr
 Batch No./Lot No. : NA
 Date of Mfg. : NS
 Date of Exp. : NS
 Date of Starting : 04/09/2023
 Date of Completion : 11/09/2023

Sample Submitted By : VSAIPPL-SMC JV
 Mfg. By : NA
 Sample Description : Physical, Chemical & Heavy Metals Analysis of water
 Location : B-Baravachawar GP-Mohammadpur T. Khara & Mata

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1	Color	Hazen	1	5 max.	15 max.	IS : 3025(P-4)
2	Turbidity	NTU	0.2	1 max.	5 max.	IS : 3025(P-10)
3	pH value at 25°C	-	7.46	6.5-8.5	No Relaxation	IS : 3025 (P-11)
4	Total Hardness as CaCO ₃	mg/l	178	200 max	600 max.	IS : 3025 (P-21)
5	Calcium (as Ca)	mg/l	37.6	75 max	200 max	IS : 3025 (P-40)
6	Iron (as Fe)	mg/l	0.028	1 max	-	IS : 3025 (P-53)
7	Magnesium (as Mg)	mg/l	20.4	30 max	100 max	IS : 3025 (P-46)
8	Chloride (as Cl)	mg/l	16.0	250 max.	1000 max.	IS : 3025 (P-32)
9	Free Residual Chlorine	mg/l	Nil	0.2 max.	1 Max	IS : 3025 (P-26)
10	Sulphates (as SO ₄)	mg/l	5.3	200 max.	400 max.	IS : 3025 (P-24)
11	Total Alkalinity (as CaCO ₃)	mg/l	ND	200 max.	600 max.	IS : 3025 (P-23)
12	Fluoride (as F)	mg/l	0.030	1 max.	1.5 max.	IS : 3025 (P-60)
13	Total Dissolved Solid (TDS)	mg/l	384	500 max.	2000 max.	IS : 3025 (P-16)
14	Total Coliform Bacteria	MPN/10 0 ml	Absent	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample	IS : 1622
15	E coli	MPN/10 0 ml	Absent	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample	IS : 1622

SAMPLE COLLECTED BY US

End of Report

Upenetra Kumar
 Technical manager

Authorized By (Sign & Stamp):

Upenetra Kumar
 Technical manager

Approved By (Sign & Stamp):

Note: a) This report is not reproduced wholly or in partially and forbidden to be used as an evidence in the court of law and ought not be used in any advertisement media without our special permission in writing. b) The data reported in this TEST CERTIFICATE are valid at the time of and under the stipulated conditions of measurement and the test results are applicable to those items of product which have been tested and do not apply to the other products even though declared to be identical. c) Except by special arrangement, the test items will not be retained by the company not more than one month. d) Report refers to the sample received by M/s QA Testing Laboratories Pvt. Ltd. e) This report is valid for the tested sample only.



QA Testing Laboratories Pvt. Ltd.

(Govt. Approved Testing Laboratories)

B-76, Sector-64, Gautam Buddha Nagar, Noida-201301 (Uttar Pradesh)

Tel.: +91-120-4133953 • Mobile: +91-8287945370 • E-mail: admin@qatestinglaboratories.com

Website : www.qatestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN

IAS-ANZ



M54009131N



An ISO 9001:2015, 14001:2015, 45001:2018 & ISO/IEC 17025:2017 Accredited Laboratory

TEST CERTIFICATE

(This Certificate is not Valid without Hologram)



Test Report No : QAL/WT/230904001610

Issue Date : 11/09/2023

Sample Name : Tube well Water

Sample Received On : 04/09/2023

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
16	Nitrate (as NO ₃)	mg/l	0.32	45 max	No Relaxation	IS : 3025 (P-34)
17	Copper (as Cu)	mg/l	ND	0.05 max	1.5 max	IS : 3025 (P-42)
18	Manganese (as Mn)	mg/l	0.016	0.1 max	0.3 max	IS : 3025 (P-59)
19	Mercury (as Hg)	mg/l	ND	0.001 max	No Relaxation	IS : 3025 (P-48)
20	Cadmium (as Cd)	mg/l	ND	0.003 max	No Relaxation	IS : 3025 (P-41)
21	Selenium (as Se)	mg/l	ND	0.01 max	No Relaxation	IS : 3025 (P-56)
22	Total Arsenic (as As)	mg/l	ND	0.01 max	0.05 max	IS : 3025 (P-37)
23	Lead (as Pb)	mg/l	ND	0.01 max	No Relaxation	IS : 3025 (P-47)
24	Zinc (as Zn)	mg/l	0.018	5 max	15 max	IS : 3025 (P-49)
25	Cobalt	mg/l	ND	-	-	IS : 3025 (P-2)
26	Aluminium (as Al)	mg/l	ND	0.03 max	0.2 max	IS : 3025 (P-55)
27	Boron (as B)	mg/l	0.010	0.5 max	1.0 max	IS : 3025 (P-57)
28	Barium (as Ba)	mg/l	0.012	0.7 max	No Relaxation	IS:13428
29	Silver (as Ag)	mg/l	ND	0.1 max	No Relaxation	IS:13428
30	Molybdenum (as Mo)	mg/l	ND	0.07 max	No Relaxation	IS : 3025 (P-2)
31	Nickel (as Ni)	mg/l	ND	0.02 max	No Relaxation	IS : 3025 (P-54)
32	Total Chromium (as Cr)	mg/l	ND	0.05 max	No Relaxation	IS : 3025 (P-52)
33	Antimony (as Sb)	mg/l	ND	-	-	IS :3025 (P-2)

Note: ND= Not Detected

SAMPLE COLLECTED BY US

End of Report

Upendra Kumar
Technical manager
Authorized By (Sign & Stamp):

Upendra Kumar
Authorized By (Sign & Stamp):

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Quality Assurance

QA Testing Laboratories Pvt. Ltd.

(Govt. Approved Testing Laboratories)

B-76, Sector-64, Gautam Buddha Nagar, Noida-201301 (Uttar Pradesh)

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Website : www.qatestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN

IAS-ANZ



M54009131N



An ISO 9001:2015, 14001:2015, 45001:2018 & ISO/IEC 17025:2017 Accredited Laboratory

TEST CERTIFICATE

(This Certificate is not Valid without Hologram)



Test Report No : QAL/WT/230904001610
 Sample Name: : Tube well Water
 Sample Code : -
 Issued To : VSAIPPL-SMC JV
 District-Ghazipur.

Issue Date : 11/09/2023
 Sample Received On : 04/09/2023
 Reference No : VSAIPPL-SMC/UPJN23-24/34
 Sampling Date : 04/09/2023
 Sampling Quantity : 2 ltr
 Batch No./Lot No. : NA
 Date of Mfg. : NS
 Date of Exp. : NS
 Date of Starting : 04/09/2023
 Date of Completion : 11/09/2023

Sample Submitted By : VSAIPPL-SMC JV

Mfg. By : NA

Sample Description : Physical, Chemical & Heavy Metals Analysis of water

Location : B-Baravachawar GP-Mohammadpur T. Khara & Mata

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1	Color	Hazen	1	5 max.	15 max.	IS : 3025(P-4)
2	Turbidity	NTU	0.2	1 max.	5 max.	IS : 3025(P-10)
3	pH value at 25°C	-	7.46	6.5-8.5	No Relaxation	IS : 3025 (P-11)
4	Total Hardness as CaCO ₃	mg/l	178	200 max	600 max.	IS : 3025 (P-21)
5	Calcium (as Ca)	mg/l	37.6	75 max	200 max	IS : 3025 (P-40)
6	Iron (as Fe)	mg/l	0.028	1 max	-	IS : 3025 (P-53)
7	Magnesium (as Mg)	mg/l	20.4	30 max	100 max	IS : 3025 (P-46)
8	Chloride (as Cl)	mg/l	16.0	250 max.	1000 max.	IS : 3025 (P-32)
9	Free Residual Chlorine	mg/l	Nil	0.2 max.	1 Max	IS : 3025 (P-26)
10	Sulphates (as SO ₄)	mg/l	5.3	200 max.	400 max.	IS : 3025 (P-24)
11	Total Alkalinity (as CaCO ₃)	mg/l	ND	200 max.	600 max.	IS : 3025 (P-23)
12	Fluoride (as F)	mg/l	0.030	1 max.	1.5 max.	IS : 3025 (P-60)
13	Total Dissolved Solid (TDS)	mg/l	384	500 max.	2000 max.	IS : 3025 (P-16)
14	Total Coliform Bacteria	MPN/10 0 ml	Absent	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample	IS : 1622
15	E coli	MPN/10 0 ml	Absent	Shall not be detectable in any 100 ml sample	Shall not be detectable in any 100 ml sample	IS : 1622

SAMPLE COLLECTED BY US

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Upendra Kumar
 Technical manager
 Authorized By (Sign & Stamp):

Upendra Kumar
 Quality Manager
 Approved By (Sign & Stamp):

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JAS-ANZ



M54009131N



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TEST CERTIFICATE

(This Certificate is not Valid without Hologram)

Test Report No : QAL/WT/230904001610

Sample Name: : Tube well Water

Issue Date : 11/09/2023

Sample Received On : 04/09/2023

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
16	Nitrate (as NO ₃)	mg/l	0.32	45 max	No Relaxation	IS : 3025 (P-34)
17	Copper (as Cu)	mg/l	ND	0.05 max	1.5 max	IS : 3025 (P-42)
18	Manganese (as Mn)	mg/l	0.016	0.1 max	0.3 max	IS : 3025 (P-59)
19	Mercury (as Hg)	mg/l	ND	0.001 max	No Relaxation	IS : 3025 (P-48)
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22	Total Arsenic (as As)	mg/l	ND	0.01 max	0.05 max	IS : 3025 (P-37)
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24	Zinc (as Zn)	mg/l	0.018	5 max	15 max	IS : 3025 (P-49)
25	Cobalt	mg/l	ND	-	-	IS : 3025 (P-2)
26	Aluminium (as Al)	mg/l	ND	0.03 max	0.2 max	IS : 3025 (P-55)
27	Boron (as B)	mg/l	0.010	0.5 max	1.0 max	IS : 3025 (P-57)
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30	Molybdenum (as Mo)	mg/l	ND	0.07 max	No Relaxation	IS : 3025 (P-2)
31	Nickel (as Ni)	mg/l	ND	0.02 max	No Relaxation	IS : 3025 (P-54)
32	Total Chromium (as Cr)	mg/l	ND	0.05 max	No Relaxation	IS : 3025 (P-52)
33	Antimony (as Sb)	mg/l	ND	-	-	IS :3025 (P-2)

Note: ND= Not Detected

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