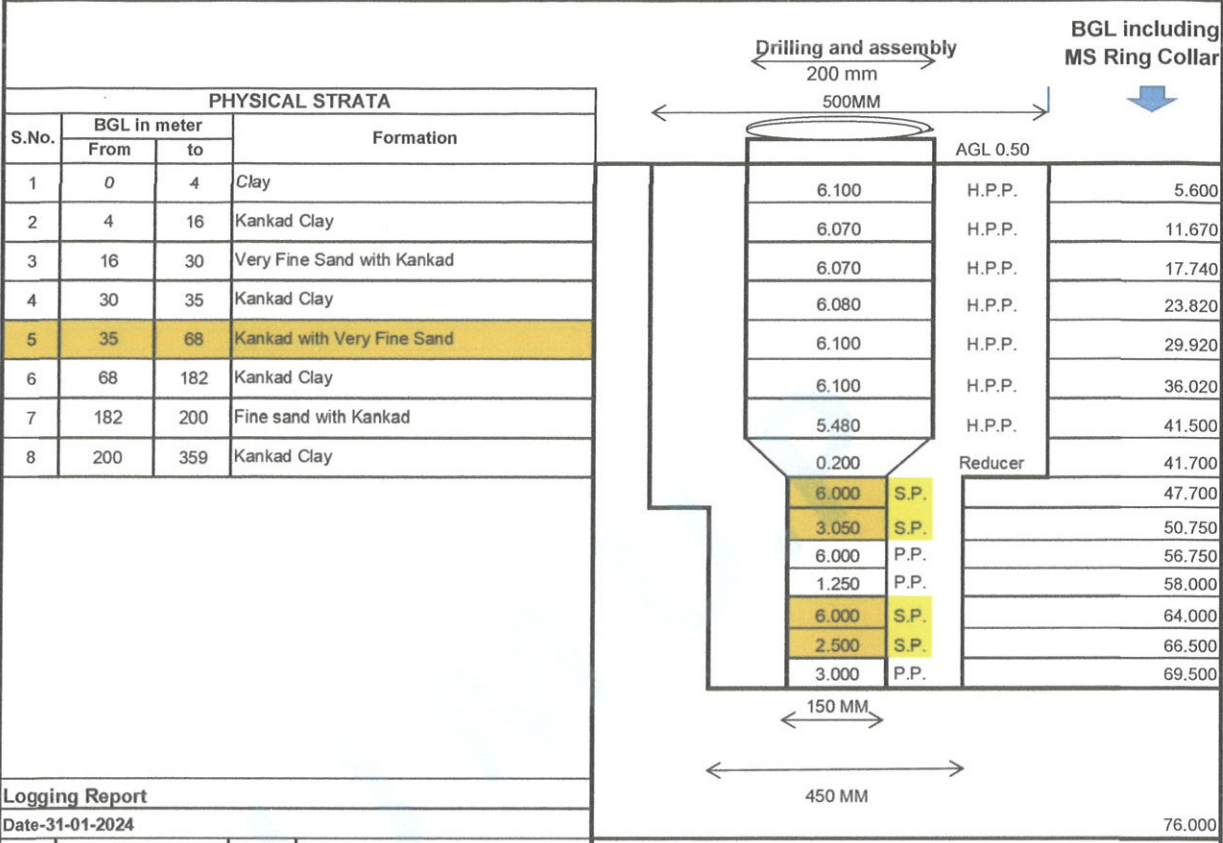







M/S VSAIPPL-SMC JV, Ghazipur (U.P)

Actual Strata Chart of ARSADPUR REORGANISATION WSS, BLOCK -VIRNO, ZONE 3, GRAM PANCHAYAT - SHADATPUR TW2

Under Jal Jeevan Mission, District- Ghazipur(U.P.)



DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	425,000 LPM			
2	Cear Depth of bore 600mm				
3	Cear Depth of bore 500mm	65,000 Mbgl		46,000 Mbgl	
4	Clear Depth of bore 450mm	360,000 Mbgl		359,000 Mbgl	
5	Plane pipe 300MM				
6	Plane pipe 200MM	60,000 m		42,000 m	
7	Plane pipe 150MM	258,000 m		10,250 m	
8	Reducer 200 X 150 MM			0.200 m	
9	Slotted pipe 300MM				
10	Slotted pipe 200MM				
11	Slotted pipe 150MM	12,000 m		17,550 m	
12	Date of lowering			09-02-2024	

 (.....) Company Repr.	 (.....) TPIA	 (A. Srivastava) Junior Engineer	 (Nitish Kumar) Assistant Engineer	 (Adarsh Verma) Exe. Engineer
--	---	--	---	---

M/S VSAIPPL-SMC JV, Ghazipur (U.P)
Medhaj Techno Concept Pvt. Ltd., Ghazipur
Division Office(E/M) , U.P. Jal Nigam(Rural), Varanasi

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SHADATPUR TW NO. 2, ZONE -3, BLOCK- BIRNON,
DISTT- GHAZIPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 360 mtrs. depth. and Logged depth 359 mtrs. at above site. Was drilled by M/s VSA Infra Pvt. Ltd. Ghazipur.

On the request of M/s VSA Infra Pvt. Ltd. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 31.Jan.2024.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 13.04 Ohms.

Drilling Water Resistivity = 14.53 Ohms.

Approx Water Level = 15 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	17 - 30	13	Medium sand	Good
2.	36 - 51	15	Medium sand	Good
3.	58 - 67	9	Fine to Medium sand	Good
4.	183 - 198	15	Fine sand	Moderate

Note :- 1.Please ensure pre-monsoon water level before lower the well assembly

2. Clay kankar is present in depth range 31-35, 52-57, 68-182 and 199 Mtr bgl to till depth logged.





Quality Assurance

QA Testing Laboratories Pvt. Ltd.

(Govt. Approved Testing Laboratories)

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Website : www.qatestinglaboratories.com

CIN : U51100UP2018PTC108293 • GSTIN : 09AAACQ5609C1ZN



JAS-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/230925001785

Sample Name: : Tube well Water

Sample Code : -

Issued To : VSAIPPL-SMC JV

District-Ghaziपुर.

Issue Date : 04/10/2023

Sample Received On : 25/09/2023

Reference No : VSAIPPL-SMC/UPJN/23-24/38

Sampling Date : 25/09/2023

Sampling Quantity : 2 Ltr.

Batch No./Lot No. : NA

Date of Mfg. : NS

Date of Exp. : NS

Date of Starting : 25/09/2023

Date of Completion : 04/10/2023

Sample Submitted By : VSAIPPL-SMC JV

Mfg. By : NA

Sample Description : Physical, Chemical & Heavy metals Analysis Of Water

Location : Distt-Ghaziपुर B-Virno GP-Shadatpur (ZONE-3)

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	-	7.75	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	40.0	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	18.2	30 max	100 max	IS : 3025 (P-46)
8	Chloride (as Cl)	mg/l	20.0	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	6.6	200 max.	400 max.	IS : 3025 (P-24)
11	Total Alkalinity (as CaCO ₃)	mg/l	156	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	410	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

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

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

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Quality Assurance



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TEST CERTIFICATE

(This Certificate is not Valid without Hologram)

Test Report No : QAL/WT/230925001785

Issue Date : 04/10/2023

Sample Name : Tube well Water

Sample Received On : 25/09/2023

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
16	Nitrate (as NO3)	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	0.018	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	0.020	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

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Technical Manager

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