

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

**Actual Strata Chart of KASIMABAD REORGANISATION WSS, BLOCK - KHASIMABAD, ZONE 4, GRAM PANCHAYAT -  
BAHRAICH  
Under Jal Jeevan Mission, District- Ghazipur(U.P.)**

PHYSICAL STRATA					MS Ring Collar length	BGL including MS Ring Collar	
S.No	BGL in meter		Formation	Drilling and assembly		AGL 0.50	0
	From	to		300 mm	600MM		
1	0	6	Clay			0.000	5.610
2	6	12	Clay Kankad			0.000	11.730
3	12	20	Kankad			0.000	17.870
4	20	30	Kankad with Very Fine Sand			0.000	23.990
5	30	39	Kankad			0.000	30.100
6	39	43	Very Fine Sand			0.000	36.210
7	43	48	Clay Kankad			0.000	39.510
8	48	58	Fine Sand			0.000	42.510
9	58	150	Clay Kankad			0.000	48.210
10	150	166	Kankad			0.000	51.210
						0.000	57.250
						0.000	58.500
							63.000

**Logging**

Date-26/04/2023

S.N.	Depth Range From to	Thickn ess	Remark
1	39 to 43	4	Good
2	48 to 58	10	Good

Note-

1. All Zones intermixed with thin bands of Kankar.
2. The formation water is deteriorating from marginal to saline below 64 Mbgl to till depth logged.

DETAILS		AS PER DPR	ACTUAL
1	Proposed Discharge	600.000 LPM	
2	Cear Depth of bore 600mm	0 Mbgl	63.000 Mbgl
3	Cear Depth of bore 500mm	65 Mbgl	0.000 Mbgl
4	Clear Depth of bore 450mm	200 Mbgl	166.000 Mbgl
5	Plane pipe 300MM	0 m	46.960 m
6	Plane pipe 200MM	60 m	0.000 m
7	Plane pipe 150MM	96 m	0.000 m
8	Slotted pipe 300MM	0 m	12.040 m
9	Slotted pipe 200MM	0 m	0.000 m
10	Slotted pipe 150MM	24 m	0.000 m
11	Date of lowering		1/5/2023

(.....) <b>Company Repr.</b> M/S VSAIPPL-SMC JV, Ghazipur (U.P)	 (.....) <b>TPIA</b> Medhaj Techno Concept Pvt. Ltd., Ghazipur	 (A. Srivastava) Junior Engineer Division Office(E/M) ,U.P. Jal Nigam(Rural), Varanasi	 (Nitish Kumar) Assistant Engineer	 (Adarsh Verma) Exe. Engineer
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6.1

Ref. No. : AGS/EL/2023/Gct-12  
Date : 27/04/2023

## GEOPHYSICAL BOREHOLE LOGGING REPORT

Site Name : Bahraich  
Location : 25.656727, 83.769790  
Block : Kasimabad  
District : Ghazipur  
State : Uttar Pradesh  
Drilling Depth : 200 Mbgl (Reported by Driller)  
Logging Depth : 166 Mbgl  
Rm/Rw : 7.5/3  
Date of Logging : 26-Apr-2023  
Logged By : Mr. Sadik Sheikh (Wellsite Geologist)  
Logger Make : GH  
Tubewell Drilled By : M/S VSAIPPL-SMC JV , Ghazipur, Uttar Pradesh

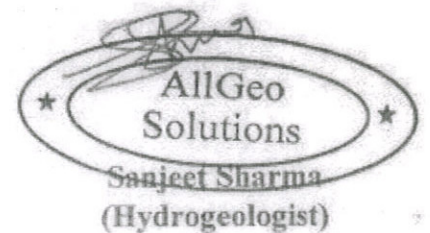
Based on the interpretation of Self Potential(SP), Short Normal(N-16''), Long Normal(N-64'') and Lateral(6'') Geophysical Logs, following informations/granular zones have been deciphered with respect to Salinity only.

Sl No.	Depth Range (mbgl)	Thickness (meters)	Quality Remarks (in term of Salinity)
1	39-43	4	Good
2	48-58	10	Good

Note: 1- All zones intermixed with thin bands of kankar.

2- The formation water is deteriorating from marginal to saline below 64 Mbgl to till depth logged.

*Verified as per logs provided*  
C.Sh  
28/04/23





जल जीवन मिशन कार्यक्रम अन्तर्गत पेयजल योजना ब्लॉक - कासिमाबाद, ग्राम पंचायत बहराइच (जोन 4). जनपद गाजीपुर में 200x150 एम0एम0 व्यास साइज के 200/180 मीटर गहरे नलकूप का निर्माण किया जाना है एवं उक्त नलकूप से 600 ली०प्र०मि० श्राव लिया जाना प्रस्तावित है। अनुबन्ध सं०- 478/ED/PHASE 2/2022-23/X दिनांक 27.02.2023 के माध्यम से M/s VSAIPPL-SMC IV, District-Ghazipur द्वारा नलकूप निर्माण कार्य सम्पादित कराया जा रहा है। दिनांक 26.04.2023 को नलकूप के बोर की इलेक्ट्रिक लॉगिंग करायी गयी, जिसका विवरण निम्नानुसार है :-

Logging				PHYSICAL STRATA			
Date-26/04/2023				S.No.	BGL in meter		Formation
S.N.	Depth Range		Thickness		Remark	From	
1	39	43		4		Good	0
2	48	58	10	Good	6	12	Clay Kankad
					12	20	Kankad
					20	30	Kankad with Very Fine Sand
					30	39	Kankad
					39	43	Very Fine Sand
					43	48	Clay Kankad
					48	58	Fine Sand
					58	150	Clay Kankad
					150	166	Kankad

अनुबन्ध में उपरोक्त नलकूप से 600 ली०प्र०मि० श्राव प्राप्त करने हेतु Enterance Velocity 0.015m/sec पर 24 मीटर स्लाटेड पाइप का प्राविधान किया गया है। इलेक्ट्रिक लॉगिंग के उपरान्त प्राप्त स्ट्रेटा के अनुसार अधिकतम 12 मीटर ही स्लाटेड पाइप डाली जा सकती है।

Physically encountered Strata एवं लॉगिंग रिपोर्ट का निरीक्षण करने पर पाया गया कि उक्त के अन्तर्गत Aquifer Fine Sand और Very Fine Sand का है एवं लॉगिंग रिपोर्ट के अनुसार केवल 12 मीटर स्लाटेड पाइप ही लोवर की जा सकती है, जिससे 600 ली०प्र०मि० श्राव प्राप्त किया जाना सम्भव नहीं है। ऐसी स्थिति में 150 मि०मी० स्लाटेड पाइप के स्थान पर 300 मि०मी० व्यास साइज की स्लाटेड पाइप का उपयोग किया जाय तो 12 मीटर की लम्बाई में Enterance area को बढ़ाकर आवश्यक वांछित श्राव प्राप्त करने का प्रयास किया जा सकता है। उल्लेखनीय है यदि 12 मीटर लम्बाई में 150 मि०मी० के स्थान पर 300 मि०मी० व्यास साइज की स्लाटेड पाइप का उपयोग किया जाय तो Opening entrance area 150 मि०मी० व्यास साइज के 24.00 मीटर पाइप के बराबर आयेगी, जो Aquifer structure के दृष्टिगत उचित होगा एवं वास्तविक श्राव यील्ड टेस्ट के उपरान्त डिप्रेशन की मानकों के गणना के दृष्टिगत स्पष्ट हो पायेगा। अनुबन्ध में निहित प्राविधान के अनुसार श्राव की प्रतिपूर्ति फर्म की स्वयं का उत्तर दायित्व में है, अतएव श्राव प्रतिपूर्ति न होने पर फर्म द्वारा द्वितीय नलकूप निर्माण कराते हुए पूरा किया जायेगा एवं भुगतान के संबंध में राज्य पेयजल स्वच्छता मिशन (एसडब्लूएसएम) द्वारा सक्षम स्तर से स्वीकृति उपरान्त नियमानुसार किया जायेगा।

अतः प्राप्त एक्यूफर के दृष्टिगत 300x300 मि०मी० व्यास साइज के 58.50 मीटर गहरे नलकूप जिसमें 12 मीटर स्लाटेड पाइप का उपयोग किया जायेगा, आपको तकनीकी स्वीकृति हेतु संलग्न कर प्रेषित है। कृपया अनुमोदन करना चाहें।

संलग्नक- लॉगिंग रिपोर्ट की छायाप्रति



संगणक  
जूनियर इंजीनियर  
सहायक अभियन्ता  
अधीक्षण अभियन्ता

अधिशाली अभियन्ता



**VARIATION STATEMENT AGAINST C.A. NO-478/ED/PHASE-2/2022-23/X, Date- 27-02-2023**

For Construction of 166/58.50 mts. deep 300 X 300 mm. dia assembly size T.W. inspite of 200/180 mts. deep 200 X 150 mm. dia assembly size T.W. by D.C. Rig Machine at Block - Kasimabad, Zone 4, Gram Panchayat - Bahraich Water Supply Scheme in District - Ghazipur

Sl No	Item of work	Unit	Rate	Cost As Per Cover Agreement (200/180 mts. deep 200 X 150 mm. dia assembly size)		Expenditure as per Actual Work Executed at Site due to adverse Geophysical Condition (166/58.50 mts. deep 300 X 300 mm. dia assembly size)	
				Qty	Amount (Rs)	Qty	Amount (Rs)
1	2	3	4	5	6	7	8
1	Transportation, Installation Dismantling of Rig machine and logging of bore hole.	Job	156,159.07	1	156,159.07	1	156,159.07
	<b>Tubewell construction:</b>						
	Drilling of Borehole for Tubewell construction by DC/RC/DTH Rig Machine including transportation, erection, dismantling of Rig and associated T&P complete in all respect including required all material labour etc.						
2	DC/RC Drilling up to 100 Mtr.						
3	600 MMØ	Rmt	3,241.68			63	204,225.54
4	500 MMØ	Rmt	2,717.19	65	176,617.39		
5	450 MMØ	Rmt	2,454.95	35	85,923.19	37	90,833.09
6	DC/RC Drilling from 100Mtr. To 200 Mtr.						
	600 MMØ	Rmt	3,551.98				
	500 MMØ	Rmt	3,033.75				
7	450 MMØ	Rmt	2,774.63	100	277,463.01	66	183,125.58
8	DC/RC Drilling from 200 Mtr. To 300 Mtr.						
	500 MMØ	Rmt	3,363.28				
9	450 MMØ	Rmt	3,158.99				
10	DC/RC Drilling from 300 Mtr. To 400 Mtr.						
11	450 MMØ	Rmt	3,703.10				
12	Tubewell Assembly:						
13	MSERW plain pipe As per IS 4270						
14	300 MMØ	Rmt	3,794.68			46.96	178,198.17
15	200 MMØ	Rmt	2,546.43	60	152,785.80		
16	150 MMØ	Rmt	1,897.34	96	182,144.64		
17	MSERW slotted pipe as per IS 8110						
18	150 MMØ	Rmt	2,796.08	24	67,105.92		
19	200 MMØ	Rmt	3,828.43				
20	300 MMØ	Rmt	5,181.33			12.04	62,383.16
21	MS Borewell cap fixture including fitting charges						
22	MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure.	Job	32,249.79	1	32,249.79	1	32,249.79
23	MS fittings such as ring & centre guide	Rmt	471.02	180	84,783.54	59.00	27,790.16
24	Lowering of Tube well Assembly: Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc.						
25	Lowering of MSERW Plain/Slotted Pipe up to 100 Mtr. Deep						
26	300 MMØ MSERW Plane/Slotted Pipe	Rmt	489.31			58.50	28,624.87
27	200 MMØ MSERW Plane/Slotted Pipe	Rmt	389.45	60	23,367.24		
28	150 MMØ MSERW Plane/Slotted Pipe	Rmt	385.46	40	15,418.38		
29	Lowering of MSERW Plane/Slotted Pipe from 100 Mtr. To 200 Mtr. Deep						
30	150 MMØ MSERW Plane/Slotted Pipe	Rmt	442.38	80	35,390.38		
31	200 MMØ MSERW Plane/Slotted Pipe	Rmt	589.97				
32	300 MMØ MSERW Plane/Slotted Pipe	Rmt	881.17				
	<b>Total Amount</b>				<b>1,289,408.35</b>		<b>963,589.44</b>
	<b>Say</b>				<b>1,289,408.00</b>		<b>963,589.00</b>

Net Savings Amount Rs. 325,819.00

Net Savings In Percentage 25.27%

  
(Company Rep.)

M/S VSAIPPL-SMC JV, Ghazipur

(TPIA Rep.)

Medhaj Techno Concept Pvt. Ltd., Ghazipur

  
(Computer)

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

  
(Junior En Ass. Engineer)

  
Div. Accountant

  
Ex. Engineer

Sup. Engineer  
Circle office  
(E/M), UPJN, Vns



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

Actual Strata Chart of KASIMABAD REORGANISATION WSS, BLOCK - KHASIMABAD, ZONE 4, GRAM PANCHAYAT -  
BAHRAICH  
Under Jal Jeevan Mission, District- Ghazipur(U.P.)


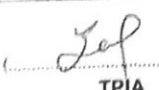

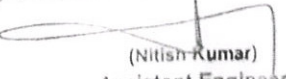

PHYSICAL STRATA			Drilling and assembly 300 mm 600MM		MS Ring Collar length	BGL including MS Ring Collar
S.No	BGL in meter		Formation	AGL 0.50	0	
	From	to				
1	0	6	Clay			5.610
2	6	12	Clay Kankad			11.730
3	12	20	Kankad			17.870
4	20	30	Kankad with Very Fine Sand			23.990
5	30	39	Kankad			30.100
6	39	43	Very Fine Sand			36.210
7	43	48	Clay Kankad			39.510
8	48	58	Fine Sand			42.510
9	58	150	Clay Kankad			48.210
10	150	166	Kankad			51.210
						57.250
						58.500
						63.000

**Logging**  
Date-26/04/2023

S.N.	Depth Range	Thickn ess	Remark
	From to		
1	39 43	4	Good
2	48 58	10	Good

Note-  
1. All Zones intermixed with thin bands of Kankar.  
2. The formation water is deteriorating from marginal to saline below 64 Mbgl to till depth logged.

DETAILS	AS PER DPR	ACTUAL
1 Proposed Discharge	600.000 LPM	63.000 Mbgl
2 Clear Depth of bore 600mm	0 Mbgl	0.000 Mbgl
3 Clear Depth of bore 500mm	65 Mbgl	166.000 Mbgl
4 Clear Depth of bore 450mm	200 Mbgl	46.960 m
5 Plane pipe 300MM	0 m	0.000 m
6 Plane pipe 200MM	60 m	0.000 m
7 Plane pipe 150MM	96 m	12.040 m
8 Slotted pipe 300MM	0 m	0.000 m
9 Slotted pipe 200MM	0 m	0.000 m
10 Slotted pipe 150MM	24 m	1/5/2023
11 Date of logging		

 <b>Company Repre.</b> M/S VSAIPPL-SMC JV, Ghazipur (U.P)	 TPIA Medhaj Techno Concept Pvt. Ltd., Ghazipur	 (A. Srivastava) Junior Engineer Division Office (E/M), U.P. Jal Nigam (Rural), Varanasi	 (Nitish Kumar) Assistant Engineer	 (Adarsh Verma) Exe. Engineer
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BOQ - E&M  
ZONE 4



## KASIMABAD REORGANISATION WATER SUPPLY SCHEME

"UNDER JAL JEEVAN MISSION"

TEHSIL - KHASIMABAD, BLOCK - KHASIMABAD

DISTRICT - GHAZIPUR

Bill of Quantity - TUBEWELL CONSTRUCTION

S.No.	SOR NO	Item of work	No.	L	B	H/D	Qty	Rate	Unit	Amount
1	As per RFP.	Drilling of Borehole for Tube well construction by DC/RC/DTH Rig Machine including transportation, erection, dismantling of Rig and associated T&P complete in all respect including required all material labor etc.								
1.1	2.01	Transportation, Installation Dismantling of Rig machine and logging of bore hole					1	156159.0708	Job	156,159.07
1.2		DC/RC Drilling up to 100Mtr.								
1.2.1	2.06	500 MMØ	1	65			65	2717.1906	Rmt	176,617.39
1.2.2	2.05	450 MMØ	1	35			35	2454.948254	Rmt	85,923.19
1.3		DC/RC Drilling from 101 MT. To 200 Mtr.Deep								
1.3.1	2.09	450 MMØ	1	100			100	2774.630072	Rmt	277,463.01
1.4		DC/RC Drilling from 201 MT. To 300 Mtr.Deep								
1.4.1	2.13	450 MMØ	1	0			0	3158.991212	Rmt	-
1.5		DC/RC Drilling from 301 MT. To 400 Mtr.Deep								
1.5.1	2.17	450 MMØ	1	0			0	3703.098394	Rmt	-
1.6	2.2	DTH Drilling upto 200.0 Mtr.Deep - 165/200 MMØ (in over burden/Hard Rock).	1	0			0	0	Rmt	-
1.7	2.22	Development / Flushing of tubewell	0				0	2895.94	Hrs	-
1.8	3.01	Tube Well Assembly								
1.8.1	3.04	MSERW plane pipe						0		
1.8.2	3.03	200 MMØ	1	60			60	2546.43	Rmt	152,785.80
1.9		150 MMØ	1	96			96	1897.34	Rmt	182,144.64
1.9.1	3.08	MSERW Pipe slotted pipe as per IS 8110								
		150 MMØ	1	24.00			24	2796.08	Rmt	67,105.92



1.9.2	3.11	MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure					1	32249.787	Job	32,249.79
1.9.3	3.12	MS fittings such as ring & centre guide	1	180			180	471.019648	Rmt	84,783.54
2.0	As per RFP.	Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc.								
2.1	4	Lowering up to 100 Mtr. Deep								
2.1.1	4.04	200 MMØ MSERW Plane/Slotted Pipe					60	389.454	Rmt	23,367.24
2.1.2	4.03	150 MMØ MSERW Plane/Slotted Pipe					40	385.4596	Rmt	15,418.38
2.2	4.06	Lowering from 100 Mtr. To 200 Mtr. Deep								
2.2.1	4.07	150 MMØ MSERW Plane/Slotted Pipe					80	442.3798	Rmt	35,390.38
2.3	4.1	Lowering from 200 Mtr. To 300 Mtr. Deep								
2.3.1	4.11	150 MMØ MSERW Plane/Slotted Pipe					0	569.55151	Rmt	-
2.4	4.14	Lowering from 300 Mtr. To 400 Mtr. Deep								
2.4.1	4.15	150 MMØ MSERW Plane/Slotted Pipe					0	425.932858	Rmt	-
2.5	5	Supplying and unconsolidated packing of gravel with suitable size					45.3	7489.5	Cum	339,589.04
3.0	6	Development of Tube well								
3.1	6.03	Transportation, Installation Dismantling of 400 PSI Compressor					1	92022.9872	Job	92,022.99
3.2	6.05	Charges for Development by 400 PSI Compressor per hour					40	3267.26941	Hrs	130,690.78
3.3	6.09	Transportation, Installation Dismantling of 1 Cusec OP Unit and Yield test, water test					1	105089.6682	Job	105,089.67
3.4	6.10	Charges for Development of TW by 1 Cusec OP Unit					70	993.037798	Hr.	69,512.65
Total cost for each tubewell										2,026,313.5
Total cost for 1 tubewells										2,026,313.5
4	47	Earth filling of abandoned tubewell in Waterworks campus	0		34.23		0.00	106.8502	Cum	-
Total Cost of Tubewell										2,026,313.47
Total Cost (In Lacs)										20.26



**M/S VSAIPPL-SMC JV, Ghazipur (U.P.)**  
**Regd. Office-#10, APIIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072**  
**Under Jal Jeevan Mission, District- Ghazipur(U.P.)**

Test Report of GP-Bahraich, Zone 4, Block - Kasimabad, Scheme-Kasimabad Reorganisation WSS, Developed by 250 PSI Compressor

Size of tube well (mm):		300	X	300	RPM		1400				
Static water level (m):		10.00			Discharge by-90 'V' notch (Rectangular)						
Depth of TW (m):		58.500			Date: of testing			24-07-2023			
S. N.	Pressure in kg/cm2		Depression		Discharge by 'V' Notch		Sand content in P.P.M.				
	Starting Pressure	Running Pressure	In kg/cm2	In mtr.	Inch	LPM	At start	After 5 min	After 10 min	After 15 min	After 20 min
1	4.30	3.60	0.70	7.00	7 1/2	1311	6400	3500	3300	3100	3000
2	3.70	3.10	0.60	6.00	7	1104	5500	3100	2900	2700	2600
3	2.80	2.30	0.50	5.00	6 3/4	1008	4600	2600	2400	2200	2000

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.)

Regd. Office-#10, APIIC Building, Type-III, I.E, Prashanth Nagar Kukatpally, Hyderabad-500072

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

Yeild Test Report of GP - Bahraich, Zone 4, Block - Kasimabad, Scheme- Kasimabad Reorganisation WSS by 1  
Cusec O.P. Unit

Size of Ventury		4" X 3"		Column Pipe Lowered:		30.00			
Static water level(m):		12.00		Date:		08-03-2023			
S.N.	Discharge		Static Water Level (m)	Depression (m)					
	Inch	LPM		Running Water Level (m)	At start	After 5 min	After 10 min		
1	60.00	1223	12.00	17.00	650	400	300	200	100
2	50.00	1120	12.00	16.40	350	200	150	50	Tr
3	40.00	1007	12.00	16.10	100	50	Tr	Tr	CI
Remark-		Recommended discharge 600 L.P.M. at 4.1m depression after running 20 minute bypass.							



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







# 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



M5400913IN

Quality Assurance



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/230821001483	Issue Date	: 25/08/2023
Sample Name:	: Tube well Water	Sample Received On	: 18/08/2023
Sample Code	: -	Reference No	: VSAIPPL-SMC/UPJN/23-24
Issued To	: VSAIPPL-SMC JV District-Ghazipur.	Sampling Date	: 18/08/2023
		Sampling Quantity	: 2 Ltr.
		Batch No./Lot No.	: NA
		Date of Mfg.	: NS
Sample Submitted By	: VSAIPPL-SMC JV	Date of Exp.	: NS
Mfg. By	: NA	Date of Starting	: 18/08/2023
Sample Description	: physical, Chemical & Heavy metals Analysis Of Water	Date of Completion	: 25/08/2023
Location	: Distt-Ghazipur Block-Kasimabad GP-Bahraich		

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	-	7.36	6.5-8.5	No Relaxation	IS : 3025 (P-11)
4	Total Hardness as CaCO3	mg/l	158	200 max	600 max.	IS : 3025 (P-21)
5	Calcium (as Ca)	mg/l	35.2	75 max	200 max	IS : 3025 (P-40)
6	Iron (as Fe)	mg/l	0.029	1 max	-	IS : 3025 (P-53)
7	Magnesium (as Mg)	mg/l	17.0	30 max	100 max	IS : 3025 (P-46)
8	Chloride (as Cl)	mg/l	18.0	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 SO4)	mg/l	6.2	200 max.	400 max.	IS : 3025 (P-24)
11	Total Alkalinity (as CaCO3)	mg/l	138	200 max.	600 max.	IS : 3025 (P-23)
12	Fluoride (as F)	mg/l	0.031	1 max.	1.5 max.	IS : 3025 (P-60)
13	Total Dissolved Solid (TDS)	mg/l	368	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):

*(Signature)*  
Director  
Quality 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 to 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.





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## TEST CERTIFICATE

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Test Report No : QAL/WT/230821001483

Issue Date : 25/08/2023

Sample Name: : Tube well Water

Sample Received On : 18/08/2023

S.No.	Test Parameter	Units	Results	Specification as per IS:10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
16	Nitrate (as NO3)	mg/l	0.33	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

\*\*\*End of Report\*\*\*

Upendra Kumar  
Technical manager

Authorized By (Sign & Stamp):

Upendra Kumar  
Quality Manager

Approved By (Sign & Stamp):

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