

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

Actual Strata Chart of KASIMABAD REORGANISATION WATER SUPPLY SCHEME, BLOCK-KASIMABAD, ZONE 5, GRAM PANCAHYAT-UCHAURI TW-2
Under Jal Jeevan Mission, District- Ghazipur(U.P.)

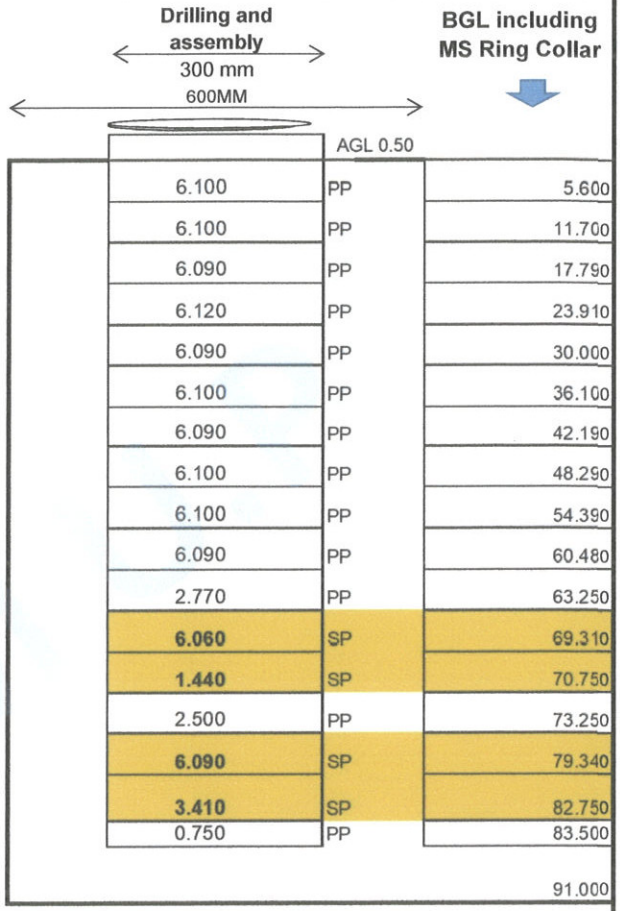
PHYSICAL STRATA				Drilling and assembly 300 mm 600MM	BGL including MS Ring Collar
S.No.	BGL in meter		Formation		
	From	to			
1	0	6	Clay		
2	6	14	Kankad Clay		
3	14	60	Very Fine Sand with Kankad		
4	60	63	Clay		
5	63	84	Kankad with Very Fine Sand		
6	84	90	Clay		
7	90	116	Very Fine Sand with Kankad		
8	116	186	Kankad Clay		
9	186	198	Kankad with Very Fine Sand		






Logging Report		
Date-08-02-2024		
S.N.	Depth Range	Thickn ess
	From to	
1	15 21	6
1	23 31	8
1	51 61	10
1	63 71	8
1	73 83	10

DETAILS		AS PER DPR	ACTUAL
1	Proposed Discharge	550.00 LPM	
2	Cear Depth of bore 600mm		91.000 Mbgl
3	Cear Depth of bore 500mm	65.00 Mbgl	
4	Clear Depth of bore 450mm	200.00 Mbgl	198.000 Mbgl
5	Plane pipe 300MM		67.000 m
6	Plane pipe 200MM	60.00 m	
7	Plane pipe 150MM	96.00 m	
8	Slotted pipe 300MM		17.000 m
9	Slotted pipe 200MM		
10	Slotted pipe 150MM	24.00 m	
11	Date of lowering		18-02-2024

Note -

1. Fine Band of kankad are intermixed with almost all zones.
2. Quality of groundwater is deteriorating to Marginal -Saline at depth range 91.0 m bgl till depth logged.
3. Please ensure pre-monsoon water level before lower the well assembly.



 (.....) Company Repre. M/S VSAIPPL-SMC	 (.....) 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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Latitude - 25.762932
Longitude - 83.675435



GEOTECH ENTERPRISE

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Ref./ UP-251/ 02 – 2024

Dated: 09-02-2024

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site : Fatehpur 2
Block : Kashimabad
District : Ghazipur
State : Uttar Pradesh
Date of Logging : 08-02-2024
Drilling Depth : 200.0 m bgl
Logging Depth : 198.0 m bgl
Borehole Drilled by : VSAIPPL-SMC-JV, Ghazipur, U.P.

Based on the interpretation of Self Potential (SP), Short Normal (N – 16”), Long Normal (N – 64”) and Lateral 6’ Geophysical Logs, following information/granular zones have been deciphered with respect to Salinity only:

Sl. No.	Depth Range (m bgl)	Thickness (meter)	Remark (Quality of Aquifer Water)
01	15 – 21	06	Moderate
02	23 – 31	08	Moderate to Good
03	51 – 61	10	Moderate to Good
04	63 – 71	08	Good
05	73 – 83	10	Good

Note:

- 1) Fine bands of Kankar are intermixed with almost all zones
- 2) Quality of groundwater is deteriorating to Marginal – Saline at depth range 91.0 m bgl till depth logged
- 3) Please ensure pre – monsoon water level before lowering the well assembly



For Geotech Enterprise

Avinash Goswami

Geologist

F – 17, Someshwar Mall, Visnagar road, Mehsana (N.G.), Gujarat -384001

महोदय,

जल जीवन मिशन कार्यक्रम अन्तर्गत कासिमाबाद पुनर्गठन पेयजल योजना, ब्लॉक-कासिमाबाद, जोन 5, ग्राम पंचायत-उचौरी TW-2. जनपद गाजीपुर में 200x150 एम0एम0 व्यास साईज के 180/200 मीटर गहरे नलकूप का निर्माण किया जाना है एवं उक्त नलकूप से 550 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 08.02.2024 को नलकूप के बोर की इलेक्ट्रिक लागिंग करायी गयी, जिसका विवरण निम्नानुसार है :-

Logging Report					PHYSICAL STRATA			
Date-08-02-2024					S.No.	BGL in meter		Formation
S.N.	Depth Range		Thickness	Remark		From	to	
	From	to			From	to		
					1	0	6	Clay
1	15	21	6	Moderate	2	6	14	Kankad Clay
1	23	31	8	Moderate to Good	3	14	60	Very Fine Sand with Kankad
1	51	61	10	Moderate to Good	4	60	63	Clay
1	63	71	8	Good	5	63	84	Kankad with Very Fine Sand
1	73	83	10	Good	6	84	90	Clay
Note - 1. Fine Band of kankad are intermixed with almost all zones. 2. Quality of groundwater is deteriorating to Marginal -Saline at depth range 91.0 m bgl till depth logged. 3. Please ensure pre-monsoon water level before lower the well assembly.					7	90	116	Very Fine Sand with Kankad
					8	116	186	Kankad Clay
					9	186	198	Kankad with Very Fine Sand

अनुबन्ध में उपरोक्त नलकूप से 550 ली०प्र०मि० श्राव प्राप्त करने हेतु Entrance Velocity 0.015m/sec पर 24 मीटर स्लाटेड पाइप का प्राविधान किया गया है। इलेक्ट्रिक लागिंग के उपरान्त प्राप्त स्ट्रेटा के अनुसार अधिकतम 17.0 मीटर ही स्लाटेड पाइप डाली जा सकती है।

Physically encountered Strata एवं लागिंग रिपोर्ट का निरीक्षण करने पर पाया गया कि उक्त के अन्तर्गत Aquifer Kankad with Very Fine Sand का है, निकटवर्तीय पेयजल योजनाओं यथा सिउरा, महिपालपुर इत्यादि नलकूपों के सैलाइन स्ट्रेटा प्राप्त होने के दृष्टिगत अधिकतम संभव स्लॉट डालकर भविष्य में अन्य नलकूपों के सैलाइन स्ट्रेटा प्राप्त होने की संभावना के दृष्टिगत संदर्भित नलकूप से साव को बढ़ाकर वांछित साव की प्रति पूर्ति की जा सकेगी। 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 (एसडब्लू०एस०एम०) द्वारा सक्षम स्तर से स्वीकृति उपरान्त नियमानुसार किया जायेगा।

अतः प्राप्त एक्यूफर का प्रभावी क्षेत्रफल बढ़ाकर अधिक साव प्राप्त करने के दृष्टिगत 300x300 मि०मी० व्यास साइज के 83.5 मीटर गहरे नलकूप जिसमें 17.0 मीटर स्लाटेड पाइप का उपयोग किए जाने की तकनीकी स्वीकृति हेतु संबंधित अभिलेख संलग्न कर प्रेषित है। कृपया अनुमोदन करना चाहें।
संलग्नक- लागिंग रिपोर्ट की छायाप्रति

M/s VSAIPPL-SMC JV
District - Ghazipur

संगणक

जूनियो इंजी०

सहायक अभियन्ता

अधिशाली अभियन्ता

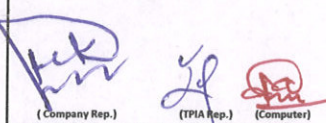
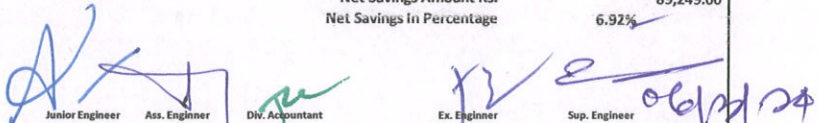
अधीक्षण अभियन्ता

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

For Construction of 188/79.75 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 KASIMABAD REORGANISATION WATER SUPPLY SCHEME, BLOCK-KASIMABAD, ZONE 5, GRAM PANCAHYAT-UCHAURI TW-2

Sl No	Item of work	Unit	Rate	Cost As Per Cover Aggrement (200/180 mts. deep 200 X 150 mm. dia assembly size)		Expenditure as per Actual Work Executed at Site due to adverse Geophysical Condition (188/79.75 mts. deep 300 X 300 mm. dia assembly size)	
				Qty	Amount (Rs)	Qty	Amount (Rs)
1	2	3	4	5	6	7	8
2.00	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 labor etc.						
2.01	Transportation, installation, Dismantling of Rig machine and logging of bore hole		156159.071	1	1,56,159.07	1	1,56,159.07
2.02	Tube well construction				-		-
2.03	DC/RC Drilling up to 100Mtr.				-		-
2.04	400 MMØ	Rmt	2192.706		-		-
2.05	450 MMØ	Rmt	2454.948	35	85,923.19	9	22,094.53
2.06	500 MMØ	Rmt	2717.191	65	1,76,617.39		-
2.07	600 MMØ		3241.68		-	91	2,94,992.45
2.08	DC/RC Drilling from 101 Mtr. To 200 Mtr.Deep				-		-
2.09	450 MMØ	Rmt	2774.630	100	2,77,463.01	98	2,71,913.75
2.10	500 MMØ	Rmt	3033.747		-		-
2.11	600 MMØ	Rmt	3551.980		-		-
2.12	DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep				-		-
2.13	450 MMØ	Rmt	3158.991		-		-
2.14	500 MMØ	Rmt	3363.285		-		-
2.15	600 MMØ	Rmt	3771.872		-		-
2.16	DC/RC Drilling from 301 Mtr. To 400 Mtr.Deep & above				-		-
2.17	450 MMØ	Rmt	3703.098		-		-
2.18	500 MMØ	Rmt	3907.392		-		-
2.19	600 MMØ	Rmt	4315.989		-		-
2.20	DTH Drilling upto 200.0 Mtr.Deep				-		-
2.21	200/165 MMØ (in over burden/Hard Rock)		1248.250		-		-
2.22	Development / Flushing of tubewell		2895.940		-		-
3.00	Tubewell Assembly:				-		-
3.01	MSERW Pipe plain pipe as per IS 4270				-		-
3.02	100 MMØ	Rmt	926.202		-		-
3.03	150 MMØ	Rmt	1897.340	96	1,82,144.64		-
3.04	200 MMØ	Rmt	2546.430	60	1,52,785.80		-
3.05	300 MMØ		3794.680		-	67	2,54,243.56
3.06	MSERW Pipe slotted pipe as per IS 8110				-		-
3.07	100 MMØ	Rmt	1364.936		-		-
3.08	150 MMØ	Rmt	2796.080	24	67,105.92		-
3.09	200 MMØ	Rmt	3828.433		-		-
3.10	300 MMØ	Rmt	5181.326		-	17	88,082.54
3.11	M5 fittings such as clamp, bail plug, reducer, well cap. Girder & support structure	Job	32249.787	1	32,249.79	1	32,249.79
3.12	M5 fittings such as ring & centre guide		471.020	180	84,783.54	84	39,565.65
4.00	Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc				-		-
4.01	Lowering up to 100 Mtr. Deep				-		-
4.02	100 MMØ MSERW Plane/Slotted Pipe	Rmt	177.571		-		-
4.03	150 MMØ MSERW Plane/Slotted Pipe	Rmt	385.460	40	15,418.38		-
4.04	200 MMØ MSERW Plane/Slotted Pipe	Rmt	389.454	60	23,367.24		-
4.05	300 MMØ MSERW Plane/Slotted Pipe	Rmt	489.314	0	-	83.5	40,857.72
4.06	Lowering from 101 Mtr. To 200 Mtr. Deep				-		-
4.07	150 MMØ MSERW Plane/Slotted Pipe	Rmt	442.380	80	35,390.38		-
4.08	200 MMØ MSERW Plane/Slotted Pipe	Rmt	589.973	0	-		-
4.09	300 MMØ MSERW Plane/Slotted Pipe	Rmt	881.175		-		-
	Total Amount				12,89,408.35		12,00,159.06
	Say				12,89,408.00		12,00,159.00
					Net Savings Amount Rs.		89,249.00
					Net Savings in Percentage		6.92%

(Company Rep.) (IPIA Rep.) (Computer) Junior Engineer Ass. Engineer Div. Accountant Ex. Engineer Sup. Engineer
 M/S VSAIPPL-SMC JV, Ghazipur Medha Tehno Concept Divisional Office (E/M), U.P. Jal Nigam (Rural), Varanasi Circle office (E/M), UPIN, Varanasi
 Pvt. Ltd., Ghazipur Division Office (E/M), Division

B.4

BOQ - E&M
ZONE 5

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 200 MMØ	1	60			60	2546.43	Rmt	152,785.80
1.8.2	3.03	150 MMØ	1	96			96	1897.34	Rmt	182,144.64
1.9		MSERW Pipe slotted pipe as per IS 8110								
1.9.1	3.08	150 MMØ	1	24.00			24	2796.08	Rmt	67,105.92

8.5

State Water and Sanitation Mission (SWSM)

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	92077.9872	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 3 tubewells								6,078,940.4
4	47	Earth filling of abandoned tubewell in Waterworks campus	0	34.23	0.00	106.8502	Cum	-
Total Cost of Tubewell								6,078,940.40
Total Cost (In Lacs)								60.79

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