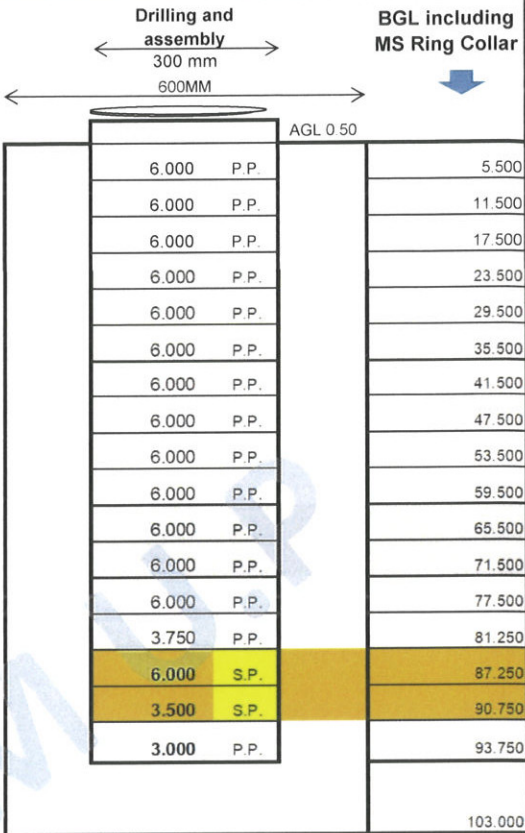


M/S VSAIPPL-SMC JV, Ghazipur (U.P)
Actual Strata Chart of BARACHAWAR REORGANISATION WATER SUPPLY SCHEME, BLOCK-
BARACHAWAR, ZONE 8, GRAM PANCAHYAT-DONDHATW-1
Under Jal Jeevan Mission, District- Ghazipur(U.P.)

PHYSICAL STRATA			
S.No.	BGL in meter		Formation
	From	to	
1	0	4	Clay
2	4	30	Kankad Clay
3	30	36	Fine Sand with Kankad
4	36	80	Kankad Clay
5	80	92	Very Fine Sand with Kankad
6	92	118	Kankad Clay
7	118	126	Fine Sand with Kankad
8	126	158	Kankad Clay
9	158	180	Fine Sand with Kankad
10	180	210	Clay
11	210	262	Kankad with fine sand
12	262	268	Clay
13	268	282	Very Very Fine Sand with Kankad
14	282	357	Kankad Clay



Logging Report

Date-07-01-2024

S.N.	Depth Range		Thickn ess	Remark
	From	to		
1	31	35	4	Good
2	81	91	10	Good
3	119	123	4	Moderate
4	159	162	3	Moderate
5	175	180	5	Moderate
6	210	227	17	Mod to Good
7	233	241	8	Moderate
8	255	260	5	Mod to Good
9	268	281	13	Good

Note -
 1. Please ensure pre-monsoon water level before lower the well assembly.
 2. Clay kankar is present in depth range 10-30,36-80,92-118,125-137,146-158,163-174,181-205,228-232,243-249 and 283Mtr bgl to till depth logged.
 3. Quality of Ground water is deteriorating marginally Saline in between 138-145 Mtr bgl.

DETAILS		AS PER DPR		ACTUAL	
1	Proposed Discharge	450.000	LPM		
2	Cear Depth of bore 600mm	0	Mbgl	103.000	Mbgl
3	Cear Depth of bore 500mm	65	Mbgl	0.000	Mbgl
4	Clear Depth of bore 450mm	360	Mbgl	357.000	Mbgl
5	Plane pipe 300MM	0	m	84.750	m
6	Plane pipe 200MM	60	m	0.000	m
7	Plane pipe 150MM	258	m	0.000	m
8	Slotted pipe 300MM	0	m	9.500	m
9	Slotted pipe 200MM	0	m	0.000	m
10	Slotted pipe 150MM	12	m	0.000	m
11	Date of lowering			26-01-2024	



Company Repr.
M/S VSAIPPL-SMC

TPIA
 Medhaj Techno Concept Pvt. Ltd., Ghazipur

(A. Srivastava) Junior Engineer

 (Nitish Kumar) Assistant Engineer

 (Adarsh Verma) Exe. Engineer
 Division Office(E/M) ,U.P. Jal Nigam(Rural), Varanasi

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DHONDHA TW NO.1 ZONE -8, BLOCK- BARACHAWAR,
DISTT- GHAZIPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 360 mtrs. depth. and Logged depth 357mtrs. at above site. Was drilled by M/S VSA Infra Projects Pvt. Ltd. Ghazipur.

On the request of M/S VSA Infra Projects Pvt. Ltd. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 07.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 = 13.10 Ohms.

Drilling Water Resistivity = 14.56 Ohms.


Approx Water Level = 5 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	31 - 35	4	Medium sand	Good
2.	81 - 91	10	Medium sand	Good
3.	119 - 123	4	Fine sand	Moderate
4.	159 - 162	3	Fine sand	Moderate
5.	175 - 180	5	Fine to Medium sand	Moderate
6.	210 - 227	17	Fine to Med sand & kan	Mod to Good
7.	233 - 241	8	Fine sand	Moderate
8.	255 - 260	5	Fine to Medium sand	Mod to Good
9.	268 - 281	13	Fine to Medium sand	Good

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

2. Clay kankar is present in depth range 10-30, 36-80, 92-118, 125-137,146-158, 163-174, 181-205, 228-232, 243-249 and 283 Mtr bgl to till depth logged.

3. Quality Of Ground water is deteriorating marginally Saline in between 138-145 Mtr bgl.


Geologist

महोदय,

जल जीवन मिशन कार्यक्रम अन्तर्गत **बाराचावर पुनर्गठन पेयजल योजना, ब्लाक-बाराचावर, जोन 8, ग्राम पंचायत-दोंधा TW-1**. जनपद गाजीपुर में 200x150 एम0एम0 व्यास साइज के 360/330 मीटर गहरे नलकूप का निर्माण किया जाना है एवं उक्त नलकूप से 450 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 07.01.2024 को नलकूप के बोर की इलेक्ट्रिक लार्गिंग करायी गयी, जिसका विवरण निम्नानुसार है :-

Date-07-01-2024					PHYSICAL STRATA			
S.N.	Depth Range		Thickness	Remark	S.No.	BGL in meter		Formation
	From	to				From	to	
1	31	35	4	Good	1	0	4	Clay
2	81	91	10	Good	2	4	30	Kankad Clay
3	119	123	4	Moderate	3	30	36	Fine Sand with Kankad
4	159	162	3	Moderate	4	36	80	Kankad Clay
5	175	180	5	Moderate	5	80	92	Very Fine Sand with Kankad
6	210	227	17	Mod to Good	6	92	118	Kankad Clay
7	233	241	8	Moderate	7	118	126	Fine Sand with Kankad
8	255	260	5	Mod to Good	8	126	158	Kankad Clay
9	268	281	13	Good	9	158	180	Fine Sand with Kankad
Note - 1. Please ensure pre-monsoon water level before lower the well assembly. 2. Clay kankar is present in depth range 10-30,36-80,92-118,125-137,146-158,163-174,181-205,228-232,243-249 and 283Mtr bgl to till depth logged. 3. Quality of Ground water is deteriorating marginally Saline in between 138-145 Mtr bgl.					10	180	210	Clay
					11	210	262	Kankad with fine sand
					12	262	268	Clay
					13	268	282	Very Very Fine Sand with Kankad
					14	282	357	Kankad Clay

अनुबन्ध में उपरोक्त नलकूप से 450 ली०प्र०मि० श्राव प्राप्त करने हेतु Entrance Velocity 0.015m/sec पर 12 मीटर स्लाटेड पाइप का प्राविधान किया गया है। इलेक्ट्रिक लार्गिंग के उपरान्त प्राप्त स्ट्रेटा के अनुसार अधिकतम 9.50 मीटर ही स्लाटेड पाइप डाली जा सकती है।

Physically encountered Strata एवं लार्गिंग रिपोर्ट का निरीक्षण करने पर पाया गया कि उक्त के अन्तर्गत Aquifer Very Fine Sand with Kankad का है, निकटवर्तीय पेयजल योजनाओं यथा राजावाली इत्यादि नलकूपों के सैलाइन स्ट्रेटा प्राप्त होने के दृष्टिगत अधिकतम संभव स्लॉट डालकर भविष्य में उक्त योजना के अन्य नलकूपों के सैलाइन स्ट्रेटा प्राप्त होने की संभावना के दृष्टिगत संदर्भित नलकूप से स्राव को बढ़ाकर उक्त जोन में वांछित स्राव की प्रति पूर्ति की जा सकेगी।

अतः प्राप्त एक्यूफर का प्रभावी क्षेत्रफल बढ़ाकर अधिक स्राव प्राप्त करने के दृष्टिगत 300x300 मि०मी० व्यास साइज के 93.75 मीटर गहरे नलकूप जिसमें 9.50 मीटर स्लाटेड पाइप का उपयोग किए जाने की तकनीकी स्वीकृति हेतु संबंधित अभिलेख संलग्न कर प्रेषित है। कृपया अनुमोदन करना चाहें।
संलग्नक- लार्गिंग रिपोर्ट की छायाप्रति

M/s VSAIPPL-SMC JV
District Ghazipur

संगणक

जूनियो इंजीनियर

सहायक अभियन्ता

अधिसासी अभियन्ता

अधीक्षण अभियन्ता

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

For Construction of 357/93.75 mts. deep 300 X 300 mm. dia assembly size T.W. inspite of 360/330 mts. deep 200 X 150 mm. dia assembly size T.W. by D.C. Rig Machine at BARACHAWAR REORGANISATION WATER SUPPLY SCHEME, BLOCK-BARACHAWAR, ZONE 8, GRAM PANCAHYAT- DONDHA TW1

Sl. No	Item of work	Unit	Rate	Cost As Per Cover Aggrement (360/330 mts. deep 200 X 150 mm. dia assembly size)		Expenditure as per Actual Work Executed at Site due to adverse Geophysical Condition (357/93.75 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		-
2.06	500 MMØ	Rmt	2717.191	65	1,76,617.39		-
2.07	600 MMØ		3241.68		-	100	3,24,167.53
2.08	DC/RC Drilling from 101 MT. To 200 Mtr.Deep				-		-
2.09	450 MMØ	Rmt	2774.630	100	2,77,463.01	97	2,69,139.12
2.10	500 MMØ	Rmt	3033.747		-		-
2.11	600 MMØ	Rmt	3551.980		-	3	10,655.94
2.12	DC/RC Drilling from 201 Mtr. To 300 Mtr.Deep				-		-
2.13	450 MMØ	Rmt	3158.991	100	3,15,899.12	100	3,15,899.12
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	60	2,22,185.90	57	2,11,076.61
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	258	4,89,513.72		-
3.04	200 MMØ	Rmt	2546.430	60	1,52,785.80		-
3.05	300 MMØ		3794.680		-	84.75	3,21,599.13
3.06	MSERW Pipe slotted pipe as per IS 8110				-		-
3.07	100 MMØ	Rmt	1364.936		-		-
3.08	150 MMØ	Rmt	2796.080	12	33,552.96		-
3.09	200 MMØ	Rmt	3828.433		-		-
3.10	300 MMØ	Rmt	5181.326		-	9.5	49,222.60
3.11	MS 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	MS fittings such as ring & centre guide		471.020	330	1,55,436.48	94.25	44,393.60
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	-	93.75	45,873.19
4.06	Lowering from 101 Mtr. To 200 Mtr. Deep				-		-
4.07	150 MMØ MSERW Plane/Slotted Pipe	Rmt	442.380	100	44,237.98		-
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				21,80,810.04		17,80,435.69
	Say				21,80,810.00		17,80,436.00

Net Savings Amount Rs. 4,00,374.00
Net Savings In Percentage 18.36%



(Company Rep.)
M/S VSAIPL-SME JV, Ghazipur, Medhaj Techno Concept Pvt. Ltd., Ghazipur

(TPIA Rep.)
Division Office(E/M), Division

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

(Junior E)
Junior Engineering

(Ass. Engineer)
Ass. Engineer

(Div. Accountant)
Div. Accountant

(Ex. Engineer)
Ex. Engineer

(Sup. Engineer)
Sup. Engineer

Circle office (E/M), UPIN, Vns