

GEO INSTRUMENTS & TECHNIC'S

(A Division of Geophysical Exploration and Instrumentation)

Sales & Service Dealer : Upron Borehole logging system, UPTRON INDIA LTD., LUCKNOW

Ref:GIT:UP: PJM:23-24:LS: 453

Dated: 14-05-2023

GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: Barnahwa
Block: Nautanwa
District: Maharajganj
State: Uttar Pradesh
Drilling Depth: 250.0 m bgl
Logging Depth: 222.0 m bgl
Date of logging: 13-05-2023
Rm - 22.0 Ω m R_w - 19.0 Ω m

Borehole Drilled by: M/s Rithwik- Koya- JV, Maharajganj, U.P. India.

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 (m bgl)	Thickness (meter)	Remark (Quality of Aquifer Water)
1.	16 - 20	04	Good
2.	33 - 43	10	Good
3.	52 - 56	04	Good
4.	122 - 126	04	Good
5.	137 - 144	07	Good
6.	175 - 179	04	Good
7.	185 - 189	04	Good
8.	202 - 206	04	Good

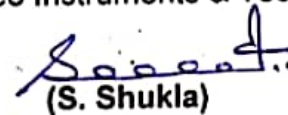
Note: 1. Fine bands of kankar are intermixed with almost all the zones.

2. Zones Sl. No. 7 is fine sand and highly intermixed with fine bands of Kankar.

Verified as per logs provided

G. Sh
15/05/23

For Geo Instruments & Technic's


(S. Shukla)

ESTIMATE FOR
BARNAHAWA TO SIRSIYA MASRAH VILLAGE WATER SUPPLY SCHEME
UNDER - SWSM
BLOCK- NAUTANWA, DISTRICT- MAHARAJGANJ
Estimate of Cost of Tubewell construction

Sl No.	Item of work	No.	Rate	Qty	Unit	Quoted reduction @ - 0.06% Amount	Remarks	SOR NO.
1	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.						As per RFP.	2 00
1.2	DC/RC Drilling up to 100Mtr.							
	600 MIMO		2,541.575	40	Rmt	1,01,663.000		2.01 to 2.04
	500 MIMO		2,112.382	60	Rmt	1,26,742.920		2.01 to 2.04
1.3	DC/RC Drilling from 101 Mtr. To 200 Mtr. Deep							2.05 to 2.08
	500 MIMO		2,249.850	100	Rmt	2,24,985.000		2.05 to 2.08
	DC/RC Drilling from 201 Mtr. To 300 Mtr. Deep							
	500 MIMO		3,163.591	50	Rmt	1,58,179.550		2.09 to 2.12
1.4	Development / Flushing of tubewell		3,043.173	0	Hrs	-		
	Tube Well Assembly							
1.5	MISERW plain pipe, As per IS 4270							3.01 to 3.04
	300 MIMO		3,987.606	36	Rmt	1,43,553.816		3.01 to 3.04
	150 MIMO		1,998.800	161	Rmt	3,21,806.800		3.01 to 3.04
1.6	MISERW Pipe slotted pipe as per IS 8110							3.05 to 3.08
	150 MIMO		3,078.152	33	Rmt	1,01,579.016		3.05 to 3.08
	MIS Ring-(100 to 200 mm a MIS. Ring made by 150 mm x 12 mm Flat), (300 mm a MIS. Ring made by 175 mm x 16 mm Flat)							3.09 to 3.12
	300		2,068.758	8	No s	16,550.064		3.09 to 3.12
	150		1,269.238	44	No s	55,846.472		3.09 to 3.12
1.7	MIS Bail plug As per IS 2800							3.13 to 3.16
	150 mm o MIS. Bail Plug		1,723.965	1	No s	1,723.965		
1.8	Reducer-							3.17 to 3.21
	300 x 150 mm Reducer		5,496.700	1	No s	5,496.700		
1.9	MISCI Clamp- As per IS 2800							3.22 to 3.25
	300 mm o MIS S.I. Clamp		4,047.570	1	No s	4,047.570		
2.0	TW Assy Support-							3.26 to 3.29
	300 mm o Tubewell Assembly Support		17,489.500	1	No s	17,489.500		
2.1	MIS Well Cap-							3.30 to 3.33
	300 mm o MIS Well Cap		1,549.070	1	No s	1,549.070		
2.1.1	Center guide for 150 mm o TW Assembly		919.448	14	No s	12,872.272		3.34 to 3.35
2.2	Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc.						As per RFP.	4 00
2.3	MISERW Plain/Slotted Pipe Lowering up to 100 Mtr. Deep							4.01 to 4.04
	300 MIMO MISERW Plain Slotted Pipe		471.717	36	Rmt	16,981.812		
	150 MIMO MISERW Plain Slotted Pipe		307.816	64	Rmt	19,700.224		
	MISERW Plane/Slotted Pipe Lowering from 100 Mtr. To 230 Mtr. Deep							4.05 to 4.08
	150 MIMO MISERW Plane/Slotted Pipe		375.775	130	Rmt	48,850.750		
2.4	Logging of Borehole by Electric logging		17,989.200	1	Job	17,989.200		4.17
2.5	Supplying and unconsolidated packing of gravel with suitable size		7,495.500	69.36	Cum	5,23,605.648	As per RFP.	5 00

55.85 418623.675

CONSTRUCTION DIVISION (E/M) U.P. JAL NAGAM, GORAKHPUR
RITHWIK-KOYA (JV), PHASE-3, MAHARAJGANJ

Block: MAUNANDA District: Maharajganj

of Rig M/C 1100 / PM

47 Logging Date 13/05/2023

DEPTH (m)	BORING CHART	STRATA	EXECUTED ASSEMBLY
0		Soil	6.02
36		Sand	6.03
48		Sand	6.03
60		Soil	6.03 \Rightarrow 36.20
66		Sand	6.08
84		Soil	6.07
90		Sand	0.20 \Rightarrow 35.70
96		Clay	6.02 \Rightarrow 35.90
102		Clay	6.03 \Rightarrow 16.10
108		Kankar	4.00 \Rightarrow 52.00
114		Highly informed Kankar	6.02 \Rightarrow 56.00
120		Kankar	6.02
126		Sand	6.02
132		Kankar	6.02 \Rightarrow 66.20
138		Sand	6.02
144		Sand	6.02
150		Soil	6.00 \Rightarrow 122.20
156		Clay	6.02 \Rightarrow 126.00
162		Soil	6.02 \Rightarrow 11.53
168		Soil	5.50 \Rightarrow 137.53
174		Sand	6.00 \Rightarrow 143.43
180		Soil	6.02
186		Sand	6.02 \Rightarrow 31.47
192		Soil	6.03
198		Sand	5.40
204		Soil	7.99 \Rightarrow 175.00
210		Sand	4.00 \Rightarrow 179.00
216		Soil	6.00 \Rightarrow 185.00
222		Sand	4.00 \Rightarrow 189.00
228		Soil	6.02
234		Sand	5.3 \Rightarrow 18.00
240		Soil + Kankar	7.78 \Rightarrow 202.00
246		Kankar	4.00 \Rightarrow 206.00
252			209.00

ASSEMBLY DETAILS		3000 x 200
3000 mm Dia.	Housing Pipe	0 to 25.70 m
2000 x 200 mm Dia.	Reducer	35.70 to 35.90 m
2000 mm Dia.	Plain Pipe	35.90 to 52.00 m
2000 mm Dia.	Slotted Pipe	52.00 to 56.00 m
2000 mm Dia.	Plain Pipe	56.00 to 122.20 m
2000 mm Dia.	Slotted Pipe	122.20 to 126.00 m
2000 mm Dia.	Plain Pipe	126.00 to 137.53 m
2000 mm Dia.	Slotted Pipe	137.53 to 143.43 m
2000 mm Dia.	Plain Pipe	143.43 to 175.00 m
2000 mm Dia.	Slotted Pipe	175.00 to 179.00 m
2000 mm Dia.	Plain Pipe	179.00 to 185.00 m
2000 mm Dia.	Slotted Pipe	185.00 to 189.00 m
3000 mm Dia.	Plain Pipe	189.00 to 202.00 m
2000 mm Dia.	Slotted Pipe	202.00 to 206.00 m
2000 mm Dia.	Plain Pipe	206.00 to 209.00 m

Total Assembly 209.00 m
As per DPR Drilling: 209.00 + 0.50 \Rightarrow 209.50 m
Lowering: 250 m

- ABSTRACT**
1. Size of Bore 230 mm \times 500 mm
 2. Drilling Started
 3. Drilling Completed / Lowering 22/05/2023
 4. Drilling Depth
 5. Assembly Lowered 209.00 mtr
 6. Housing Pipe 36.20 mtr
 7. Blind Pipe 147.20 mtr
 8. Slotted Pipe 25.80 mtr
 9. Reducer 0.2 mtr

- LOGGING REPORT**
1. 16-20 \Rightarrow 04
 2. 33-42 \Rightarrow 10
 3. 52-56 \Rightarrow 04
 4. 122-126 \Rightarrow 04
 5. 137-149 \Rightarrow 12 Chord.
 6. 175-179 \Rightarrow 04
 7. 185-189 \Rightarrow 04
 8. 202-206 \Rightarrow 04
 9. Fine bands of Kankar was mixed with all zones.
 10. Zone 7 is fine sand & highly informed
 11. with fine bands of Kankar.



TPI

J.E. (E&M)

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