



Aqua Xplore

(Groundwater Assessment & Allied Services)

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Advisor- Dr. R. A. Yadav, ex- Manager(Groundwater), U. P. Jal Nigam

Ref 320 -V/ AX- 2023

Date 20.03.2023

Geophysical Borehole Logging Report

Name of the site : Virania, Block – Tarwa

District : Azamgarh

Date : 20.03.2023

Depth logged : 145.0 mbgl

Depth drilled : 195.0 mbgl – as reported

Logger used : UPTRON make

Presence : Representative of M/S Hetvi Construction LLP, Azamgarh

Based on the interpretation of geophysical logs, following information may be deciphered, particularly with respect to salinity of the formation water;

Sl.No.	Depth range(mbgl)	Thickness(m)	Remarks
1	25.0–29.0	4.0	Good all
2	34.0–39.0	5.0	
3	43.0–49.0	6.0	
4	61.0–74.0	13.0	

Note. All zones are intermixed with kankar. Quality of the formation water is deteriorating marginal to saline below 81.0 mbgl till depth logged.

for Aqua Xplore

CC;

M/S Hetvi Construction LLP, Azamgarh

**ESTIMATE FOR
VIRNAIA GRAM PANCHAYAT WATER SUPPLY SCHEME
UNDER - JJM
BLOCK- TARWAN, DISTRICT- AZAMGARH
Estimate of Cost of Tubewell construction**

Discharge 560 LPM
Head 47 M
Drilling Depth of Tube well 200 M
Lowering of Tube well 180 M
Size of Tube well 200 x 150 mm

SI No.	Item of work	No.	L	B	H/D	Qty	Rate	Unit
1	DC/RC Drilling including Hiring Transportation, Erection, Dismantling with Loading and unloading of Rig and associated T&P complete in all respect including material labour & T&P etc.							
1.1	DC/RC Drilling up to 100Mtr.							
1.1.1	500 MMØ					60	2,709.57	Rmt
1.1.2	450 MMØ					40	2,448.06	Rmt
1.2	DC/RC Drilling from 101 MT. To 200 Mtr.Deep							
1.2.1	450 MMØ					100	2,766.85	Rmt
1.2.2	Development / Flushing of tubewell						2,887.82	Hrs
1.3	DC/RC Drilling from 201 MT. To 300 Mtr.Deep							
1.3.1	450 MMØ						3,150.13	Rmt
1.4	Tube Well Assembly							
	MSERW plain pipe As per IS 4270							
1.4.1	200 MMØ					54	2,539.29	Rmt
1.4.2	150 MMØ					102	1,991.60	Rmt
	MSERW Pipe slotted pipe as per IS 8110							
1.4.3	200 MMØ					8	3,817.70	Rmt
1.4.4	150 MMØ					24	3,067.06	Rmt
1.5	MS fittings such as clamp, bail plug, reducer, well cap, girder & support structure							
	MS Ring-							
1.5.1	200 mm Ø MS. Ring made by 150 mm x 12 mm Flat					10	1,593.28	No.
1.5.2	150 mm Ø MS. Ring made by 150 mm x 12 mm Flat					22	1,264.67	No.
	MS Bail plug As per IS 2800							
1.5.3	150 mm Ø M.S. Bail Plug					1	1,717.76	No.

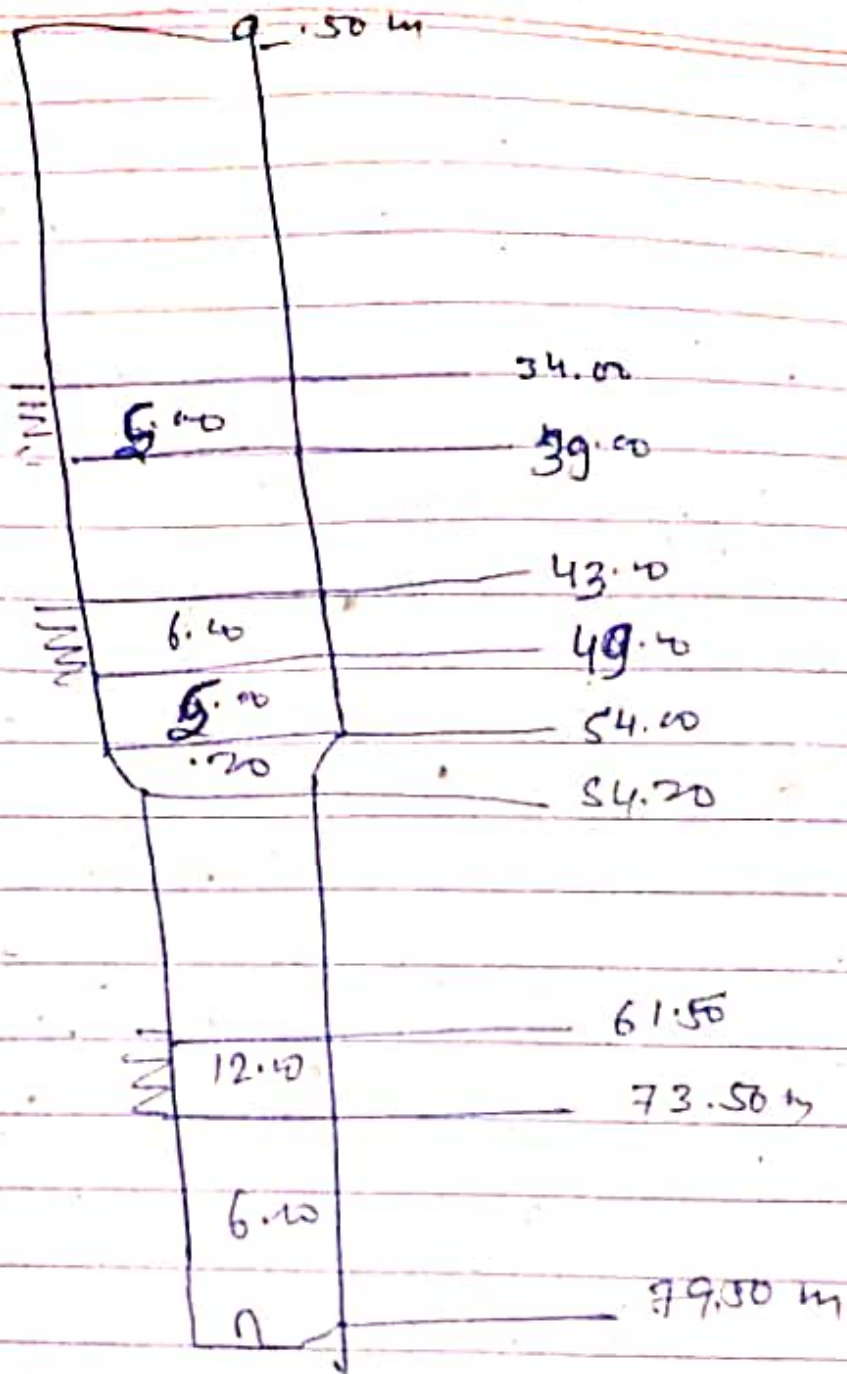
	Reducer-								
1.5.4	200 x 150 mm Reducer					1	4,132.57	No.	
	MSSI Clamp- As per IS 2800								
1.5.5	200 mm Ø MS S.I Clamp					1	1,991.60	No.	
1.5.6	150 mm Ø MS S.I Clamp						1,493.70	No.	
	TW Assy Support-								
1.5.7	200 mm Ø Tubewell Assembly Support					1	15,434.90	No.	
	MS Well Cap-								
1.5.8	200 mm Ø MS Well Cap					1	1,344.33	No.	
	Centre Guide-								
1.5.9	Center guide for 150mm Ø TW Assembly					5	916.14	No.	
2.0	Lowering of above assembly with welding of parts complete in all respect with all required material, T&P, labour, etc.								
2.1	Lowering up to 100 Mtr. Deep								
2.1.1	200 MMØ MSERW Plane/Slotted Pipe					54	405.29	Rmt	
2.1.2	150 MMØ MSERW Plane/Slotted Pipe					46	279.46	Rmt	
2.2	Lowering from 101 Mtr. To 200 Mtr. Deep								
2.2.1	200 MMØ MSERW Plane/Slotted Pipe						481.97	Rmt	
2.2.2	150 MMØ MSERW Plane/Slotted Pipe					80	366.77	Rmt	
2.3	Lowering from 201 Mtr. To 300 Mtr. Deep								
2.3.1	150 MMØ MSERW Plane/Slotted Pipe					0	431.21	Rmt	
2.4	Logging of Borehole by electric logging								
2.5	Supplying and unconsolidated packing of gravel with suitable size					45	7,468.50	cum	
3.0	Development of Tube well								
3.1	Charges for Development by 350 PSI Compressor per hour					50	4,232.15	Hrs	
3.2	Charges for Development of TW by 1 cusec OP Unit					100	1,120.28	Hr.	
	Total								
									Say (In Laes)

Asht - 560.9pm

EW = 200 x 180 mm

ST - 24.70 m

Vishnu Ws Bohomy, Asundi



34-40 } 42-48
 43-49