

## GEOPHYSICAL BOREHOLE-LOGGING REPORT

1. Date of Logging: 18/08/2023  
 2. Village: Saidan Wahapur  
 3. Location: Govt School  
 4. Block: Ramnagar  
 5. District: Barabanki  
 6. Latitude & Longitude: 27.0895 & 81.2824.  
 7. Drilling depth: 165m bgl  
 8. Logging depth: 165 m bgl  
 9. Logging Company: UP Ground Water Department  
 10. Bore hole drilled by: MVIPL.  
 11. Recorded Geophysical log data: SP, Natural gamma & Resistivity (16 N & 64 N).  
 12. (i) Resistivity of Mud (Rm): 5.70 ohm-m. (ii) Resistivity of fresh water (Rf): 5.70 ohm-m.  
 13. On the basis of interpretation of recorded log data in open hole detail report is made is as follows:-  
 (a) Aquifer: The depth zones with high resistivity and relatively low Natural Gamma radioactivity values are referred as Aquifer Zones.  
 (b) Clay: The depth zones with less resistivity and relatively high Natural Gamma radioactivity values are referred as Clay zones.

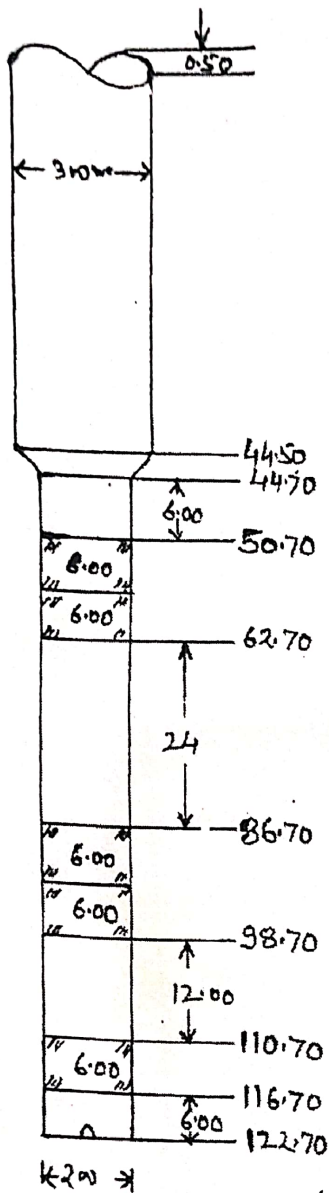
**Based on the downhole Geophysical Parameters following information (Granular zones) deciphered:-**

S.No	Depth Range (m bgl)	Thickness (meter)	Lithology	Aquifer Recommendation	Remark (Quality of aquifer water)
1.	0-8	8	Top Soil		Good
2.	8-23	15	Sandy clay		Good
3.	22-31	9	Medium to fine sand	Recommended	Good
4.	31-40	9	Clay		Good
5.	40-64	24	Medium to fine sand	Recommended	Good
6.	64-76	12	Clayey sand		Good
7.	76-141	64	Medium to fine sand	Recommended	Good
8.	141-165	24	Clay		Good

14. Note:-  
 (i) All Zones are intermixed with kankar.  
 (ii) Zone 1 & 2 is intermixed with thin layers of kankar.  
 15. Quality of the formation water is good up to Logging depth.  
 16. Log Attached.

*Rajeev Kumar*  
**Rajeev Kumar**  
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 National Hydrology Project  
 Ground Water Department, Govt. of U.P.

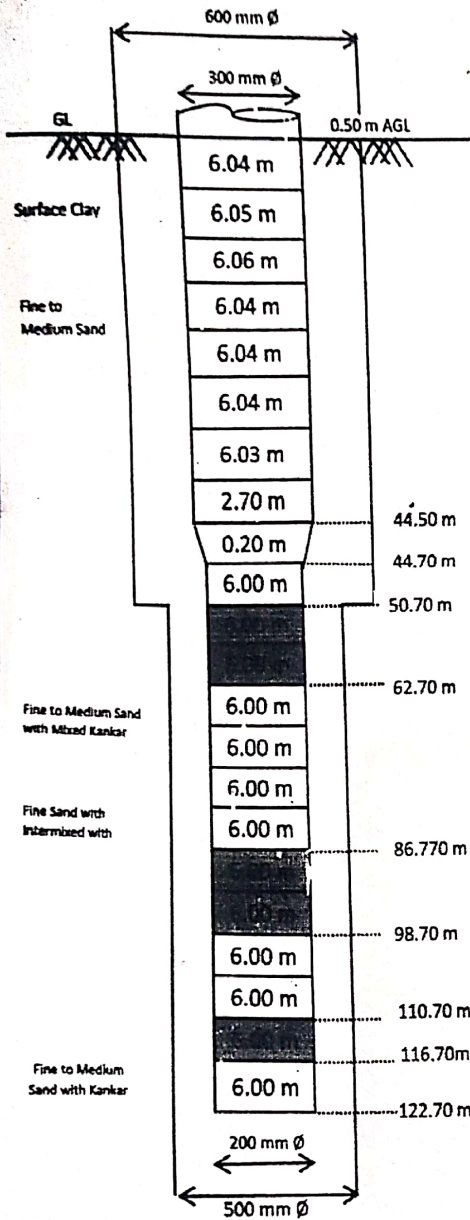
Proposed Tw Assembly chart of Saidanpur Hishakipur w/schem block Ramnagar  
Dist-Bazarkhaki



- 1- Discharge-
- 2- Motor HP - 30HP.
- 3- Assembly size - 300x200
- 4- Bore  $\phi = 600 \times 500$
- 5- Logging Report #18-823
- 3- 22-31 = 9 medium to fine sand
- 5- 40-64 = 24 medium to fine
- 7- 76-141 = 64 medium to fine

OFFICE OF THE EXECUTIVE ENGINEER  
 DIVISION OFFICE (E/M), UTTAR PRADESH JAL NIGAM (RURAL), AYODHYA  
 Actual Strata Chart & T.W. Assembly lowered of 600 x 500 mm of Saidanpur & Shekhpur, WSS BLOCK-Ramnagar  
 Under Jal Jeevan Mission, Distt- Barabanki

Latitude - 26.9553041°  
 Longitude - 81.3928562°



ACTUAL T.W. ASSEMBLY	
BORE SIZE	600 mm x 500 mm
T.W. ASSEMBLY	300 mm x 200 mm
DISCHARGE	1230 LPM
WORKING HEAD	
PUMP	30 HP
LOGGING REPORT	18/08/2023
Date of Lowering	22/08/2023

S.NO.	DEPTH RANGE	THICKNESS	REMARKS
1	22-31	9	GOOD
2	40-64	24	GOOD
3	76-141	64	GOOD

1- Housing Pipe 300 mm Ø	= 45.00 m
2- Plain Pipe 150 mm Ø	= 48.00 m
3- Slotted Pipe 150 mm Ø	= 30.00 m
4- Reducer (300 x 150) mm Ø	= 0.20 m
Total Assembly	= 123.20 m
Less AGL	= (-)0.50 m
<b>Total Lowering (BGL)</b>	<b>= 122.70 m</b>

M/s VTL - GAJA ENGINEERING PVT LTD JV  
 Contractor

R.A.P.M.  
 FITCHNER India Ltd.  
 T.P.I.

S. Yadav  
 E.E. (E&M)

R. S. Prasad  
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