



**GROUND WATER INVESTIGATION CENTRE**

**(Ground Water Assessment & Allied Services)**

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Ref: GIC/LIM/Barabanki/12

Date: 27-02-2023

**GEOPHYSICAL BOREHOLE ELECTRICAL LOGGING REPORT**

Site's Location : Village - Hasampur Tanda, Block - Fatehpur  
 Distt - Barabanki

Drilling Depth : 170 mbgl

Logged Depth : 165 mbgl

Date of Logging : 27-02-2023

Types of Log : S.P. & Resistivity (Normal & Lateral)

Logger Used : Upton

Details of major aquifer formations explored from interpretation of Geophysical Logs are given below.

Sl. No.	Depth Range (m. bgl)	Thickness (m)	Types of strata	R <sub>100</sub> & R <sub>0</sub>
1	22 - 28	6	Good	R <sub>100</sub> = 2000 R <sub>0</sub> = 1000
2	43 - 62	19	Good, Intermixed kankar bands	
3	67 - 72	5	Good	
4	82 - 96	14	Good, Intermixed kankar bands	
5	99 - 102	3	Good	
6	110 - 123	13	Good, Intermixed kankar bands	
7	126 - 131	5	Good, Intermixed kankar bands	

Remark: Below 131m, clay kankar & very fine sand exist.

*Verified as per logs provided.  
A.S.*

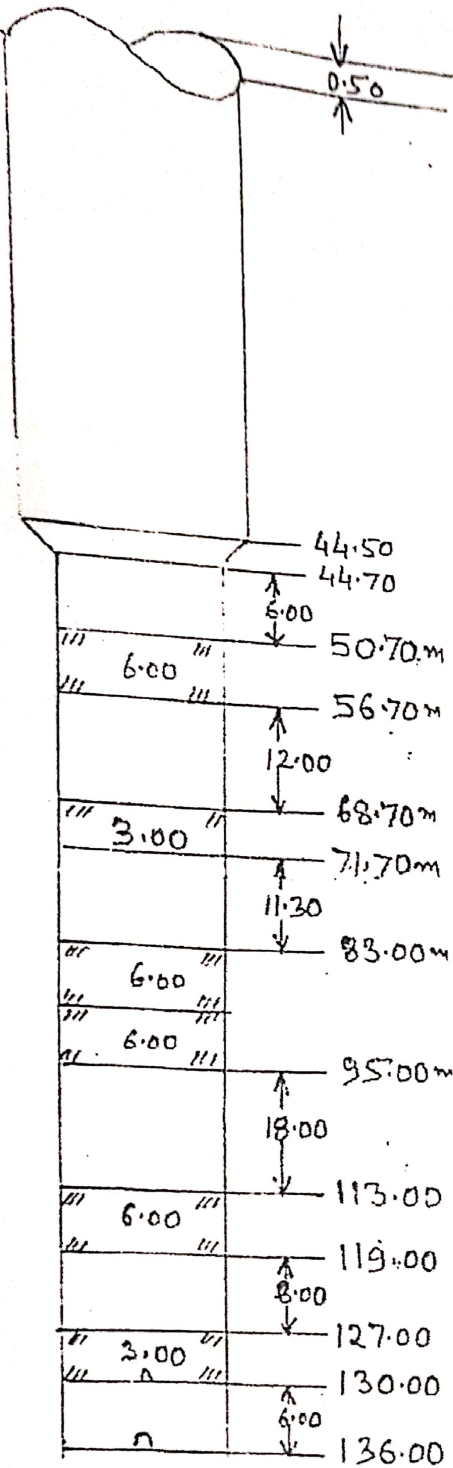
*(A.K. Singh)*  
Geophysicist

Section T/W Assembly chart of - Hasanpur Tanda water supply system  
 Block - Fatehpur  
 Dist. Barabanki

Discharge = 1087.18 L/s  
 Motor HP = 17.5 HP  
 Assembly size = 300 x 150 mm  
 Bore  $\phi$  = 600 x 450 mm  
 Logging Report 20-10-11

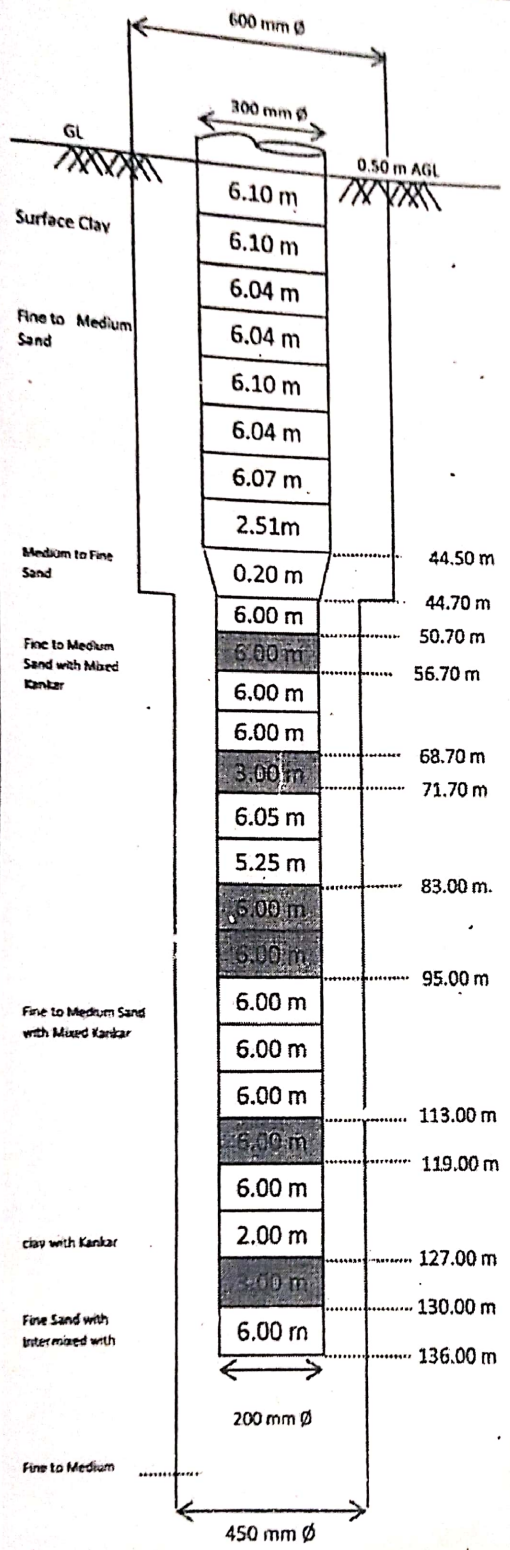
- 1 - 22 - 28 = 6
- 2 - 43 - 62 = 19 - 6
- 3 - 67 - 72 = 5 - 3
- 4 - 82 - 96 = 14 - 12
- 5 - 99 - 102 = 3
- 6 - 110 - 123 = 13 - 6
- 7 - 126 - 131 = 5 - 3

Provision of 150 mm slotted pipe = 30  
 Provision of Hawking pipes 300 mm  $\phi$  = 45



OFFICE OF THE EXECUTIVE ENGINEER  
 DIVISION OFFICE (E/M), UTTAR PRADESH JAL NIGAM (RURAL), AYODHYA  
 Actual Strata Chart & T.W. Assembly lowered of 300 x 150 mm of Hasanpur Tanda, W55 BLOCK-Fatehpur  
 Under Jal Jeevan Mission, Distt- Barabanki

Latitude - 27.097418°  
 Longitude - 81.252495°



ACTUAL T.W. ASSEMBLY			
BORE SIZE	600 mm x 450 mm		
T.W. ASSEMBLY	300 mm x 200 mm		
DISCHARGE	1087.18 LPM		
WORKING HEAD			
PUMP	17.5 HP		
LOGGING REPORT	27-02-2023		
Date of Lowering	28-02-2023		
S.NO.	DEPTH RANGE	THICKNESS	REMARKS
1	22-28	06	GOOD
2	43-62	19-6	GOOD
3	67-72	5-3	GOOD
4	82-96	14-12	GOOD
5	99-102	3	GOOD
6	110-123	13-6	GOOD
7	126-131	5-3	GOOD

1- Housing Pipe 300 mm Ø	= 45.00 m
2- Plain Pipe 200 mm Ø	= 61.30 m
3- Slotted Pipe 200 mm Ø	= 30.00 m
4- Reducer (300 x 200) mm Ø	= 0.20 m
<b>Total Assembly</b>	<b>= 136.50 m</b>
<b>Less AGL</b>	<b>= (-)0.50 m</b>
<b>Total Lowering (BGL)</b>	<b>= 136.00 m</b>

M/s VTL - GAJA ENGINEERING PVT LTD JV  
 Contractor

FITCHNER India Ltd.  
 T.P.I.

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

R. S. Prasad  
 A.E. (E&M)

Mohd. Maaz  
 E.E. (E&M)