GROUND WATER INVESTIGATION CENTRE

GROUND WATER DEPARTMENT
GOVERNMENT OF UTTAR PRADESH
Lucknow-226010

GEOPHYSICAL BOREHOLE-LOGGING REPORT

1.Date of Logging: 21/04/2023

2.Village: Tahirpur

3.Location: Near Canal

4. Block: Nindura

5.District: Barabanki

6.Latitude & Longitude: 27.1255 & 81.0222

7.Drilling depth: 165 m bgl

8.Logging depth: 155 m bgl

9.Logging Company: UP Ground Water Department

10.Bore hole drilled by: MVIPL Pvt.Ltd.

11.Recorded Geophysical log data: SP,Natural gamma & Resistivity (16 N & 64 N,FL,Lateral).

12.(i)Resistivity of Mud (Rm): 13.20 ohm-m.

(ii)Resistivity of fresh water(Rf): 12.60 ohm-m.

13.On the basis of interpretation of recorded log data in open hole detail report is made is as follows:-

(a)Acquifer: 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	Acquifer Recommendation	Remark (Quality of aquifer water)
1.	14-22	8	Coarser sand	Recommended	Good
2.	22-56	34	Medium to coarser sand	Recommended	Good
3.	68-86	18	Medium to coarser sand	Recommended	Good
4.	91-95	4	Medium to fine sand	Recommended	Medium
5.	102-105	3	Medium to fine sand	Recommended	Diteriated
6.	128 134	6	Fine sand	Recommended	Diteriated
7.	154-158	6	Fine sand	Recommended	Diteriated

14.Note:-

(i) All Zones are intermixed with kankar.

Zone 1,2 & 3 is intermixed with thin layers of kankar.

15.Quality of the formation water is good up to Logging depth

16. Log Attached.

Verified as per logs provided Note Groundwater Quality interpreted lay formation as per their logger calibration

Rajeev Kumar 24/04/2023

Rajeev Kumar
Geophysicist
National Hydrology Project
Ground Water Department U.P.

5 Sh
20/04/23

Proposed Tw Assembly chart of Tachirpur w/s scheme block Nindaura

Distt-Barabanki

1- Discharge 331.82LPM

2. Motor HP - 7.5HP

3 Assembly size 300 x 150mm

4- Bore ϕ 450 x 450m

5.. Logging Report dt. 27-4-23

1 - 14 - 22 = 8 Coarse sand

2 - 22 - 56 = 34 Medium to coarse

3 - 68 - 86 = 18 Medium to c..x

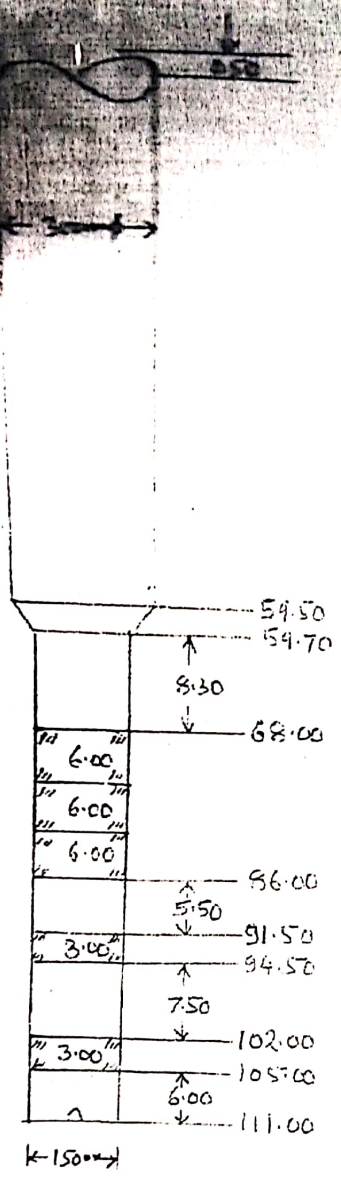
4 - 91 - 95 = 4 Medium fine

5 - 102 - 105 = 3 Medium fine

6 - 129 - 134 = 6 Fine sand

7 - 154 - 158 = 6 Fine sand

Logging depth 155m



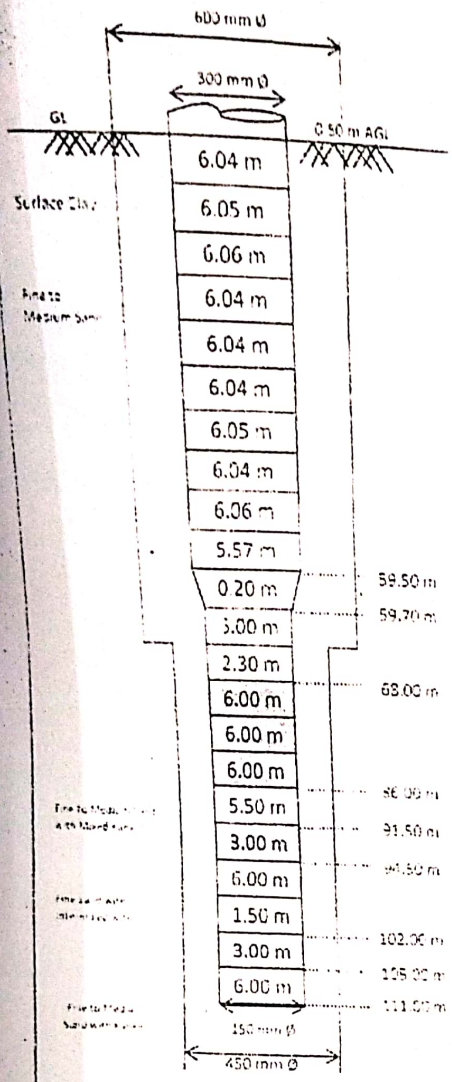
OFFICE OF THE EXECUTIVE ENGINEER

DIVISION OFFICE (E/M), UTTAR PRADESH JAL NIGAM (RURAL), GONDA

Actual Strata Chart & T.W. Assembly lowered of 300 x 150 mm of Tahirpur WSS BLOCK-Nindaura,

Under Jal Jeevan Mission, Distt- Barabanki

Latitude -	27.10826°
Longitude -	81.013176°



ACTUAL T.W. ASSEMBLY	
BORE SIZE	600 mm x 450 mm
T.W. ASSEMBLY	300 mm x 150 mm
DISCHARGE	331.82 LPM
WORKING HEAD	
PUMP	7.5 HP
LOGGING REPORT	27-03-2023
Date of Lowering	30-03-2023

S.NO.	DEPTH RANGE	THICKNESS	REMARKS
1	14-22	8	GOOD
2	22-56	34	GOOD
3	68-686	18	GOOD
4	91-95	4	GOOD
5	102-103	3	GOOD
6	128-134	6	GOOD
7	154-158	6	GOOD

1- Housing Pipe 300 mm Ø	= 60.00 m
2- Plain Pipe 150 mm Ø	= 27.30 m
3- Slotted Pipe 150 mm Ø	= 24.00 m
4- Reducer (300 x 150) mm Ø	= 0.20 m
Total Assembly	= 111.50 m
Less AGL	= 00.50 m
Total Lowering (BGL)	= 111.00 m

M/s VTL GA[illegible]ENGINEERING PVT LTD JV/ M/S MVPL
Contractor

RAPL
LITCHNER India Ltd.
T.P.I.

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

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

Mohd. Mazz
E.E.(E&M)