



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

Ref :- _____

Dated :-

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Chorkand, Block Maniar
2. District:- Ballia
3. Dt. Of logging:- 25.12.2020
4. Drilled depth(as reported by concerned JE):- 276.0 mbgl
5. Logged depth:- 275.0 mbgl
6. Logger no.:- AquaXplore, Lucknow
7. Concerned JE:- Er. Jyoti Ranjan, JE
8. Based on the geophysical log interpretation following granular zones may be deciphered, particularly with respect to salinity of the formation water.

Sl. No.	Zones (mbgl)	Thickness(mts.)	Remarks
1	35.0-41.0	6.0	Good
2	47.0-52.0	5.0	Good
3	58.0-72.0	14.0	Good
4	74.0-81.0	7.0	CLAY
5	90.0-98.0	8.0	CLAY
6	99.0-109.0	10.0	Good
7	111.0-114.0	3.0	CLAY
8	178.0-186.0	8.0	CLAY
9	192.0-199.0	7.0	Good
10	200.0-206.0	6.0	CLAY
11	208.0-221.0	13.0	Good
12	222.0-228.0	6.0	CLAY
13	230.0-246.0	16.0	Good

Between 120.0 mbgl to 178.0 mbgl the quality of formation water is marginal to saline.

(Dr. S.Sahai)

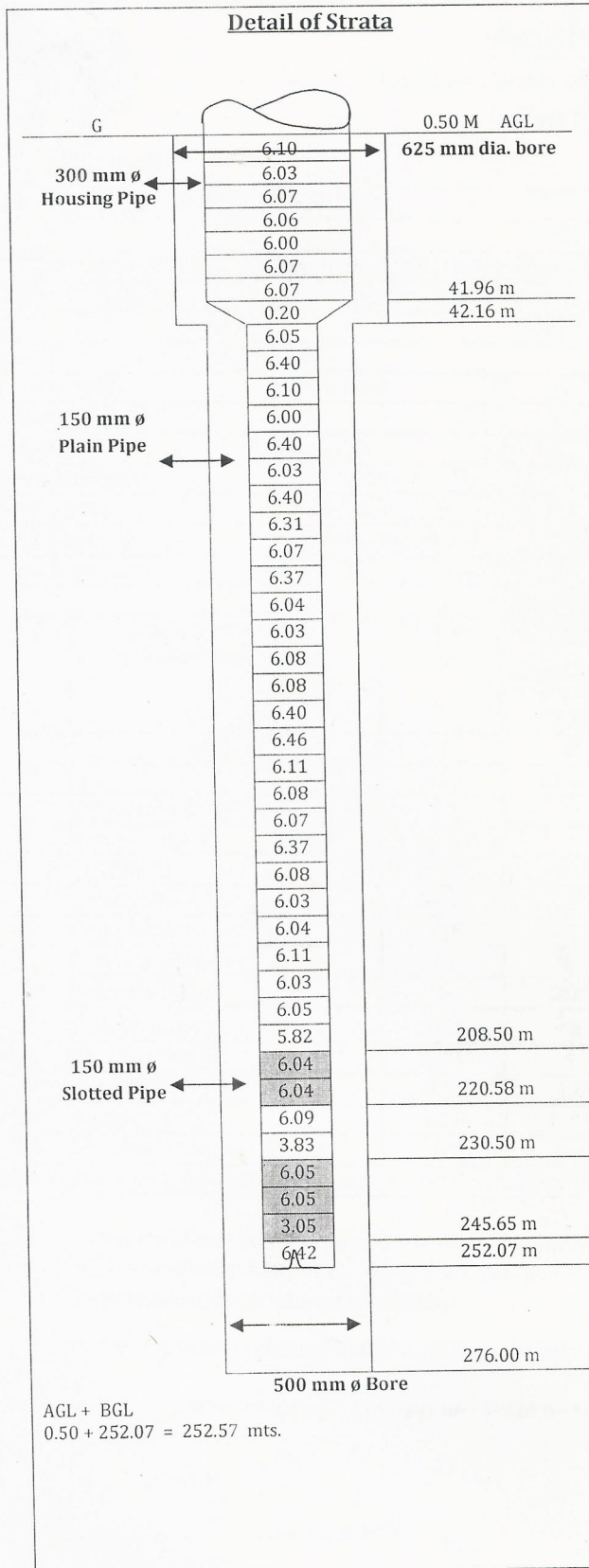
Manager (Ground Water)

1. EE, TCD(E/M), UP Jal Nigam, Mau for information and necessary action.

Manager (Ground Water)

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Chorkhand water supply scheme, Block- Maniyar, District- Ballia. (Under Programme- N.W.Q.S.M.)

(Not to Scale)



Detail of Lowering

Date- 09-04-2021

1	Drilling depth	276 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Total housing pipe dia 300 mm	42.46 mt.
4	200mm ϕ x 150 mm ϕ M.S. Reducer	0.20 mt
5	Total Plain pipe dia 150 mm	182.68 mt.
6	Total Slotted pipe dia 150 mm	27.23 mt.
7	Size of assembly lowered	300mm ϕ x 150 mm ϕ

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	6.00	6.00	Surface Clay
6.00	24.00	18.00	Sandy Clay
24.00	54.00	30.00	Fine Sand
54.00	72.00	18.00	Fine to M. Sand
72.00	84.00	12.00	Clay
84.00	90.00	6.00	Fine Sand
90.00	99.00	9.00	Clay
99.00	112.00	13.00	Fine to M. Sand
112.00	115.00	3.00	Clay
115.00	172.00	57.00	Clay with Kankar
172.00	178.00	6.00	Fine Sand
178.00	192.00	14.00	Clay
192.00	200.00	8.00	Fine Sand
200.00	206.00	6.00	Clay
206.00	222.00	66.00	Fine to M. Sand
222.00	230.00	8.00	Clay
230.00	246.00	16.00	Fine to M. Sand
246.00	275.00	29.00	Clay

Logging Report

Date 25-12-2020

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	35.0-41.0	6.0	Good
2	47.0-52.0	5.0	Good
3	58.0-72.0	14.0	Good
4	74.0-81.0	7.0	CLAY
5	90.0-98.0	8.0	CLAY
6	99.0-109.0	10.0	Good
7	111.0-114.0	3.0	CLAY
8	178.0-186.0	8.0	CLAY
9	192.0-199.0	7.0	Good
10	200.0-206.0	6.0	CLAY
11	208.0-221.0	13.0	Good
12	222.0-228.0	6.0	CLAY
13	230.0-246.0	16.0	Good

Between 120.0 mbgl to 178.0 mbgl the quality of formation water is marginal to saline.

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test :- 22-06-2021

Discharge measure by 50' V Notch						Data of Test						Remark
Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in		Starting Sand in P.P.M.	Sand contents in P.P.M. After				
	In Inches	In L.P.M	Starting	Runni ng	Kg/c m ²	mts		5 Min	10 Min	15 Min	20 Min	
1	9	2350	24.00	23.50	0.50	5.00	4500	2500	1500	1100	900	
Note- Recommended for development of T/W by O.P. Unit.												

Note- Recommended for development of T/W by O.P. Unit.

YIELD TEST REPORT OF T.W BY O.P. UNIT

Discharge measured by orifice meter- 6"x5" size.

Date of Test :- 07-07-2021

Sl. No.	Discharge		Water level in mts.		Depres sion in meters	Starting	Sand contents in P.P.M. After				Remar k
	In Inches	In L.P.M	Running	Static			5 Min	10 Min	15 Min	20 Min	
1	15	1817	7.79	3.00	4.79	200	100	50	Tr	Cl	
2	10	1487	7.49	3.00	4.49	100	50	Tr	Cl	Cl	
3	5	1060	6.73	3.00	3.73	Tr	Cl	Cl	Cl	Cl	

Recommended Discharge 950 LPM after 5 min. in by pass.

M/s Riya Enterprises Ballia
Contractor

(J. Ranjan)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.K. Gupta)
Executive Engineer