



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Primary School, Shreepatipur, Block Murali Chapara
2. District:- Ballia
3. Dt. Of logging:- 09.07.19
4. Drilled depth(as reported):- 275.0 mbgl
5. Logged depth:- 250.0 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	39.0-60.0	21.0	Good
2	65.0-72.0	7.0	Good
3	77.0-92.0	15.0	Good
4	93.0-102.0	9.0	Sandy Clay
5	103.0-116.0	13.0	Good
6	117.0-124.0	7.0	CLAY
7	126.0-131.0	5.0	Good
8	134.0-137.0	3.0	Good
9	142.0-149.0	7.0	Good
10	152.0-159.0	7.0	Good ✓
11	159.0-164.0	5.0	CLAY
12	165.0-178.0	13.0	Good ✓
13	179.0-182.0	3.0	Sandy Clay
14	183.0-199.0	16.0	Good
15	204.0-223.0	19.0	Good ✓
16	224.0-240.0	16.0	CLAY

All zones are kanker intermixed.

(Dr. S.Sahai)

Manager (Ground Water)

c.c.

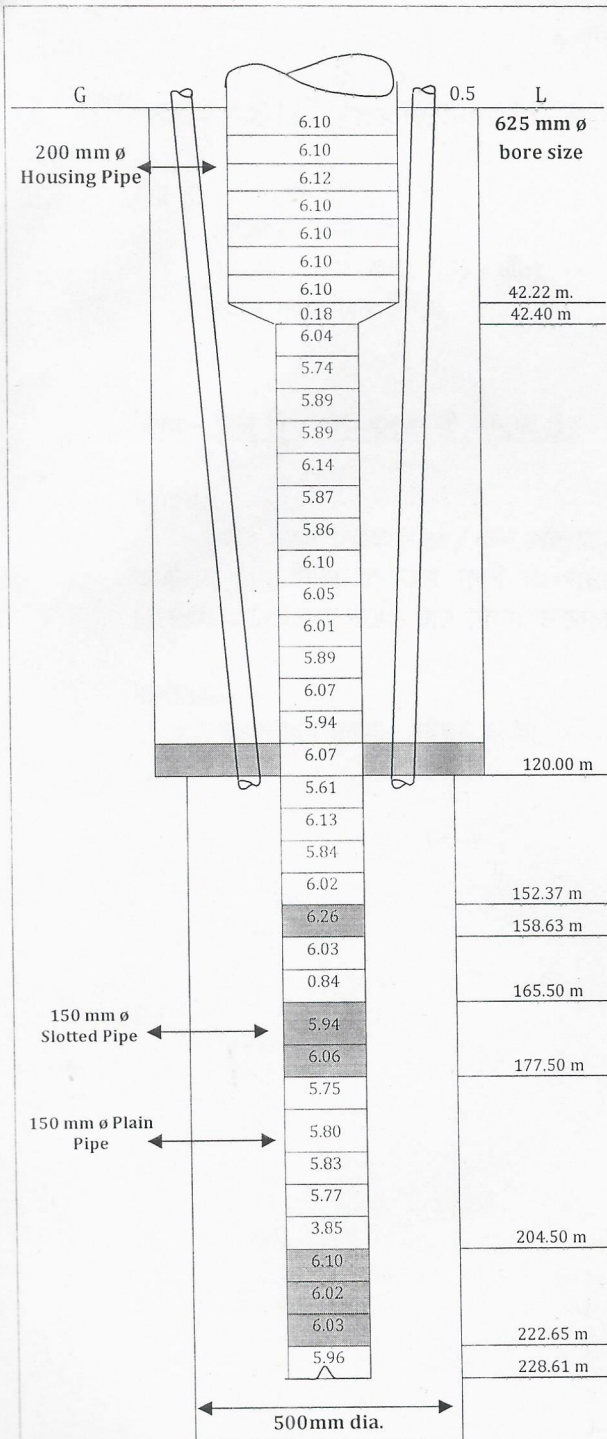
1. EE, TCD(E/M), UP Jal Nigam, Mau for information and necessary action.

Manager (Ground Water)

U.P. JAL NIGAM, MAU

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Sripatipur water supply scheme, Block- Murali Chhapra, District- Ballia.(World Bank Batch-2)

(Not to Scale)



AGL + BGL
0.5 + 228.61 = 229.11 mts.

Detail of Lowering

Date - 12-10-2019

1	Drilling depth	250 m.
2	Total housing pipe dia 200 mm	42.72 m.
3	Total Plain pipe dia 150 mm	149.80 m.
4	Total Slotted pipe dia 150mm	36.41 m.
5	Size of assembly lowering	200mmø x 150 mmø
6	M.S. Reducer 200mmø x 150 mmø	0.15 m.
8	BGL.	228.61 m.
9	Total Length of assembly	229.11 m.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0	3		Clay
3	25		Fine Sand
25	30		Fine to M. Sand
30	60		Fine Sand
60	93		Fine Sand with Kankar
93	103		Sandy Clay
103	116		Fine Sand with Kankar
116	125		Clay
125	162		Fine Sand with Kankar
162	180		Fine Sand
180	184		Sandy Clay
184	224		Fine Sand with Kankar
224	250		Clay

Logging Report

Date 09-07-2019

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	39.0 - 60.0	21.0	Good
2	65.0 - 72.0	7.0	Good
3	77.0 - 92.0	15.0	Good
4	93.0 - 102.0	9.0	Sandy Clay
5	103.0 - 116.0	13.0	Good
6	117.0 - 124.0	7.0	Clay
7	126.0 - 131.0	5.0	Good
8	134.0 - 137.0	3.0	Good
9	142.0 - 149.0	7.0	Good
10	152.0 - 159.0	7.0	Good
11	159.0 - 164.0	5.0	Clay
12	165.0 - 178.0	13.0	Good
13	179.0 - 182.0	3.0	Sandy Clay
14	183.0 - 199.0	16.0	Good
15	204.0 - 223.0	19.0	Good
16	244.0 - 240.0	16.0	Clay

Zone Testing done at following depth

S. N.	Zones (In meter)		Ars. mg/l	Ir. mg/l	Fl. mg/l	Result
1	152.0	159.0	BDL	0.02	0.78	Satisfactory
2	165.0	178.0	BDL	0.02	0.77	Satisfactory
3	204.0	223.0	BDL	BDL	0.77	Satisfactory
1	152.0	159.0	BDL	0.02	0.78	Satisfactory

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test :- 19-12-2019

Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in mts	Starting Sand in P.P.M.	Sand contents in P.P.M. After				Remark	
	In Inches	In L.P.M	Starting	Running			5 Min	10 Min	15 Min	20 Min		
1	9	2107	17.50	17.00	0.50	5.00	3000	1400	1100	900	900	

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

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

Discharge measured by orifice meter- 4"x3" Orifice meter.

Date of Test :- 22-10-2019

Sl. No.	Discharge		Water level in mts.		Depress ion in meters	Sand contents in P.P.M.					Remark
	In Inch	In L.P.M	Running	Static		Starting	5 Min	10 Min	15 Min	20 Min	
1	19	2029	8.23	5.00	3.23	100	50	Tr	Tr	Tr	Recommended discharge 800 LPM at 2.20m depression after 5 min. running in bypass.
2	15	1817	7.94	5.00	2.94	50	Tr	Tr	Tr	Cl	
3	10	1487	7.28	5.00	2.28	Tr	Tr	Tr	Cl	Cl	
4	6	1154	7.20	5.00	2.20	Tr	Cl	Cl	Cl	Cl	

M/s Raj Company, Ballia
Contractor

(J.Ranjan)
J. E.

(M.N. Maurya)
Assistant Engineer

(J.K. Gupta)
Executive Engineer