



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Jagdeva, Block Bairia ,
2. District:- Ballia
3. Dt. Of logging:- 22.06.19
4. Drilled depth(as reported):- 275.0 mbgl,
5. Logged depth:- 275.0 mbgl
6. Logger no.:- AquaXplore
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	44.0-53.0	9.0	Good
2	55.0-62.0	7.0	Good
3	68.0-78.0	10.0	Good
4	81.0-84.0	3.0	Good
5	84.0-88.0	4.0	CLAY
6	88.0-96.0	8.0	Good
7	98.0-108.0	10.0	Good
8	108.0-110.0	2.0	CLAY
9	111.0-117.0	6.0	Good
10	117.0-119.0	2.0	CLAY
11	119.0-123.0	4.0	Good
12	123.0-127.0	4.0	CLAY
13	127.0-140.0	13.0	Good
14	140.0-145.0	5.0	CLAY
15	149.0-165.0	16.0	Good ✓
16	168.0-173.0	5.0	Good
17	175.0-177.0	2.0	CLAY
18	179.0-183.0	4.0	CLAY
19	183.0-186.0	3.0	SANDY CLAY
20	191.0-195.0	4.0	CLAY

21	196.0-206.0	10.0 ✓	Good, fine sand kanker intermixed
22	210.0-225.0	15.0	CLAY
23	231.0-238.0	7.0 ✓	Good, fine sand kanker intermixed
24	238.0-242.0	4.0	CLAY
25	243.0-245.0	2.0	CLAY
26	246.0-252.0	6.0	Good, fine sand kanker intermixed
27	256.0-258.0	2.0	CLAY
28	261.0-272.0	11.0 ✓	Good, fine sand kanker intermixed <i>Flonide-3.15</i>

All zones are kanker intermixed.

S. Sahai
(Dr. S. Sahai)

Manager (Ground Water)

c.c.

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

S. Sahai
Manager (Ground Water)

M/s Vidut Jain Sector-23 Indra Nagar Lucknow

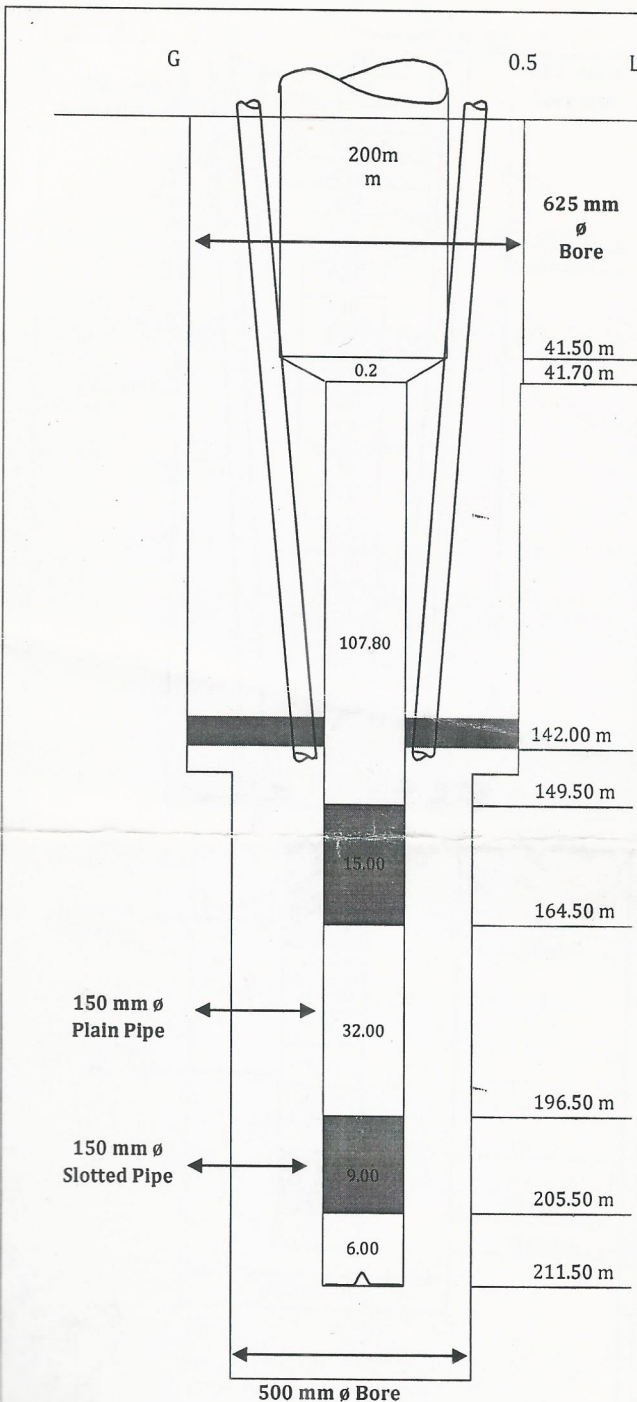
Proposed Tube well Assembly Chart cum strata Chart For Jagdeva water supply scheme, Block-Bairiya, District- Ballia. (Under Programme- World Bank Batch-II)

Name of Client :- Executive Engineer Temp. Construction Division (E/M), U.P. Jal Nigam Mau.

Tube well Site :- Jagdeva T.W.

Size of T.W. assy. - 200mm x 150 mm dia.

(Not to Scale)



AGL + BGL
0.5 + 211.50 = 212.00 mts.

Detail of Lowering

1	Drilling depth	275.00 mts.
2	Total housing pipe 200 mm dia	42.00 mt.
3	Total Plain pipe 150 mm dia	145.80 mt.
4	Total Slotted pipe 150 mm dia	24.00 mt.
5	Size of assembly lowering	200mmø x150 mmø
6	M.S. Reducer 200mmø x150 mmø	0.20 mt.
7	BGL.	211.50 mt.
8	Total Length of assembly	212.00 mt.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	6.00	6.00	Clay
6.00	42.00	36.00	Fine Sand
42.00	72.00	30.00	Fine to M. Sand with Stone
72.00	84.00	12.00	Fine to M. Sand
84.00	88.00	4.00	Clay
88.00	108.00	20.00	M. Sand
108.00	110.00	2.00	Clay
110.00	117.00	7.00	Fine to M Sand
117.00	119.00	2.00	Clay
119.00	123.00	4.00	Fine Sand
123.00	127.00	4.00	Clay
127.00	140.00	13.00	M. Sand
140.00	145.00	5.00	Clay
145.00	174.00	29.00	Fine to M. Sand
174.00	195.00	21.00	Clay
195.00	210.00	15.00	Fine Sand Kankar Intermixed
210.00	225.00	15.00	Clay
225.00	238.00	13.00	Fine Sand
238.00	258.00	20.00	Clay
258.00	275.00	17.00	V. Fine Sand

Logging Report

Date 22-06-2019

SL.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	44.0 - 53.0	9.0	Good
2	55.0 - 62.0	7.0	Good
3	68.0 - 78.0	10.0	Good
4	81.0 - 84.0	3.0	Good
5	84.0 - 88.0	4.0	Clay
6	88.0 - 96.0	8.0	Good
7	98.0 - 108.0	10.0	Good
8	108.0 - 110.0	2.0	Clay
9	111.0 - 117.0	6.0	Good
10	117.0 - 119	2.0	Clay
11	119.0 - 123.0	4.0	Good
12	123.0 - 127.0	4.0	Clay
13	127.0 - 140.0	13.0	Good
14	140.0 - 145.0	5.0	Clay
15	149.0 - 165.0	16.0	Good
16	168.0 - 173.0	5.0	Good
17	175.0 - 177.0	2.0	Clay
18	179.0 - 183.0	4.0	Clay
19	183.0 - 186.0	3.0	Sandy Clay
20	191.0 - 195.0	4.0	Clay
21	196.0 - 206.0	10.0	Good Fine Sand Kankar Intermixed
22	210.0 - 225.0	15.0	Clay
23	231.0 - 238.0	7.0	Good Fine Sand Kankar Intermixed
24	238.0 - 242.0	4.0	Clay
25	243.0 - 245.0	2.0	Clay
26	246.0 - 252.0	6.0	Good Fine Sand Kankar Intermixed
27	256.0 - 258.0	2.0	Clay
28	261.0 - 272.0	11.0	Good Fine Sand Kankar Intermixed

Note- All Zone are Kankar Intermixed.

Zone Testing done at following depth

S. N.	Zones (In meter)		Ars. mg/l	Ir. mg/l	Fl. mg/l	Result
1	149.0	165.0	BDL	0.05	0.24	Satisfactory
2	196.0	206.0	BDL	0.36	0.86	Satisfactory
3	231.0	238.0	BDL	0.68	1.39	Not Satisfactory
4	261.0	272.0	BDL	0.37	3.15	Not Satisfactory

Proposed By

M/s Vidut Jain Lucknow
Contractor

Recommended By

(J. Ranjan)
J. E.

Approved

(V.K. Singh)
Assistant Engineer

(J.K. Gupta)
Executive Engineer