GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Kamsipur, Block Rasra, District:- Ballia
2. Dt. Of logging:-. 18.03.2021 (log received 21.3.21)
3. Drilled depth(as verified by concerned JE):- 275.0 mbgl,
4. Logged depth:- 245.0 mbgl
5. Logger no.:- AquaXplore, Lucknow
6. Concerned JE:- Er. Jyoti Ranjan, JE
7. 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	27.0-34.0	7.0	Good
2	46.0-49.0	3.0	Good
3	51.0-57.0	3.0	CLAY
4	60.0-76.0	16.0	Good
5	77.0-81.0	4.0	CLAY
6	84.0-90.0	6.0	Good
7	93.0-100.0	7.0	Good
8	103.0-107.0	3.0	CLAY
9	108.0-111.0	3.0	Good
10	117.0-133.0	16.0	Good
11	141.0-145.0	4.0	CLAY
12	210.0-215.0	5.0	CLAY
13	227.0-245.0	18.0	Good

Between 145.0 mbgl to 210.0 mbgl the quality of formation water is deteriorating to 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)

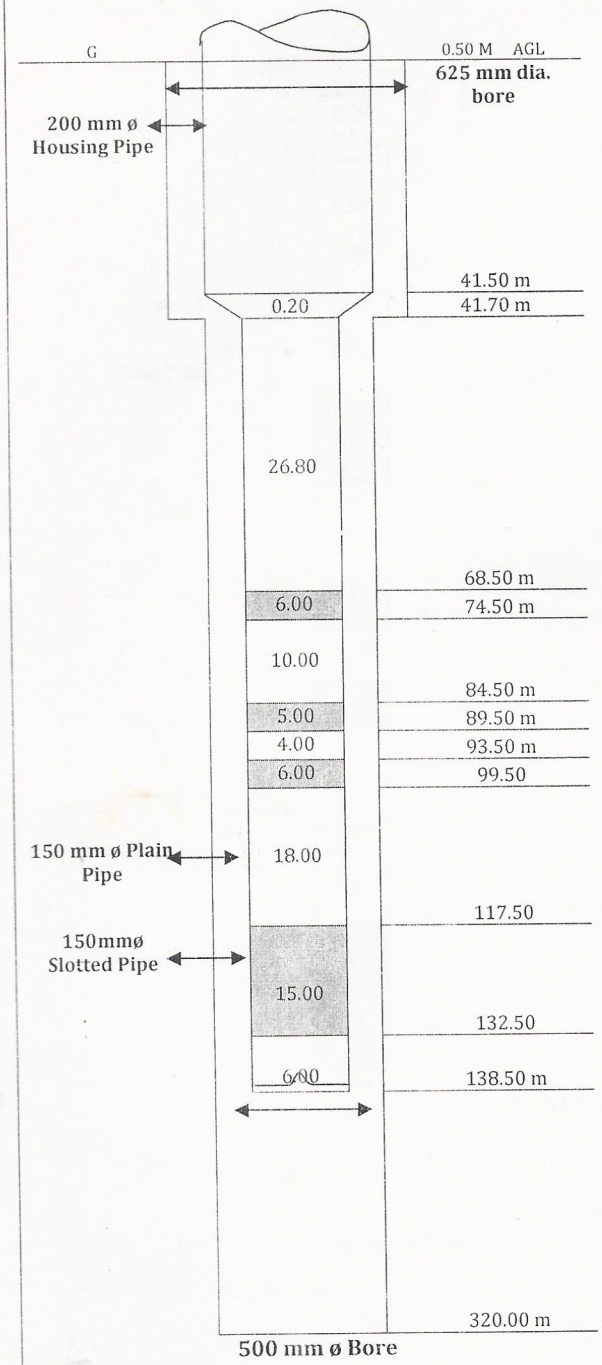
M/s Jagdamba Enterprises Gorakhpur

Proposed Tube well Assembly Chart cum strata Chart For Kamsipur water supply scheme, Block- Rasra, District- Ballia. (Under Programme- N.W.Q.S.M.)

Name of Client :- Executive Engineer Temp. Construction Division (E/M), U.P. Jal Nigam Mau.
Tube well Site :- Kamsipur T.W. **Size of T.W. assy. -** 200mm x 150 mm dia.
Required Discharge of Tubewell :- 400 LPM

(Not to Scale)

Detail of Strata



AGL + BGL
0. 5 + 138.50 = 139.00 m

Detail of Lowering

1	Drilling depth	275.00 m
2	Total housing pipe 200 mm dia	42.00 m
3	Total Plain pipe 150 mm dia	64.80 m
4	Total Slotted pipe 150mm dia	32.00 m
5	Size of assembly lowering	200mmø x150 mmø
6	M.S. Reducer 200mmø x150 mmø	0.20 m
7	BGL.	138.50 m
8	Total Length of assembly	139.00 m

Detail of Physical Strata encountered during drilling

From (m)	To (m)	Thick (m)	Description of the Strata
0.00	6.00	6.00	Surface Clay
6.00	30.00	24.00	Sandy Clay
30.00	45.00	15.00	V. Fine Sand
45.00	50.00	5.00	Fine Sand
50.00	59.00	9.00	Kankar Clay
59.00	76.00	17.00	Fine Sand
76.00	83.00	7.00	Clay
83.00	102.00	19.00	Fine to M. Sand
102.00	108.00	6.00	Clay
108.00	140.00	32.00	Fine to M. Sand
140.00	145.00	5.00	Clay
145.00	215.00	70.00	Clay with intermixed Kankar
215.00	245.00	30.00	Fine Sand with Kankar
245.00	275.00	30.00	Caving Clay

Logging Report **Date 21-03-2021**

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	27.0 – 34.0	7.0	Good
2	46.0 – 49.0	3.0	Good
3	51.0 – 57.0	6.0	CLAY
4	60.0 – 76.0	16.0	Good
5	77.0 – 81.0	4.0	CLAY
6	84.0 – 90.0	6.0	Good
7	93.0 – 100.0	7.0	Good
8	103.0 – 107.0	3.0	CLAY
9	108.0 – 111.0	3.0	Good
10	117.0 -133.0	16.0	Good
11	141.0 – 145.0	4.0	CLAY
12	210.0 – 215.0	5.0	CLAY
13	227.0 – 245.0	18.0	Good

Between 145.0 mbgl to 210.0 mbgl the quality of formation water is deteriorating to marginal to saline.

Proposed By	Recommended By		Approved
M/s Jagdamba Enterprises Gorakhpur Contractor	(J. Ranjan) J. E.	(P.C. Gupta) Assistant Engineer	(J.K. Gupta) Executive Engineer