



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Rampur TW 2, Block Rasra
2. District:- Ballia
3. Dt. Of logging:- 11.09.2020
4. Drilled depth(as reported by concerned JE):- 268.0 mbgl
5. Logged depth:- 255.0 mbgl
6. Logger no.:- AquaXplore, Lucknow
7. Concerned JE:- Er. Sudhir Kumar, 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	27.0-32.0	5.0	Good, fine sand
2	47.0-50.0	3.0	Good, fine sand
3	57.0-62.0	5.0	Moderate, fine sand
4	69.0-72.0	3.0	CLAY
5	185.0-191.0	6.0	CLAY kanker intermixed
6	196.0-203.0	7.0	Good
7	214.0-217.0	3.0	CLAY
8	222.0-225.0	4.0	Good
9	226.0-232.0	6.0	Sandy CLAY
10	232.0-236.0	4.0	Good
11	238.0-245.0	7.0	Good
12	247.0-251.0	4.0	CLAY
13	252.0-255.0	3.0	Good

Between 72.0 mbgl to 185.0 mbgl the quality of formation water is marginal to saline.

(Dr. S.Sahai)

Manager (Ground Water)

c.c.

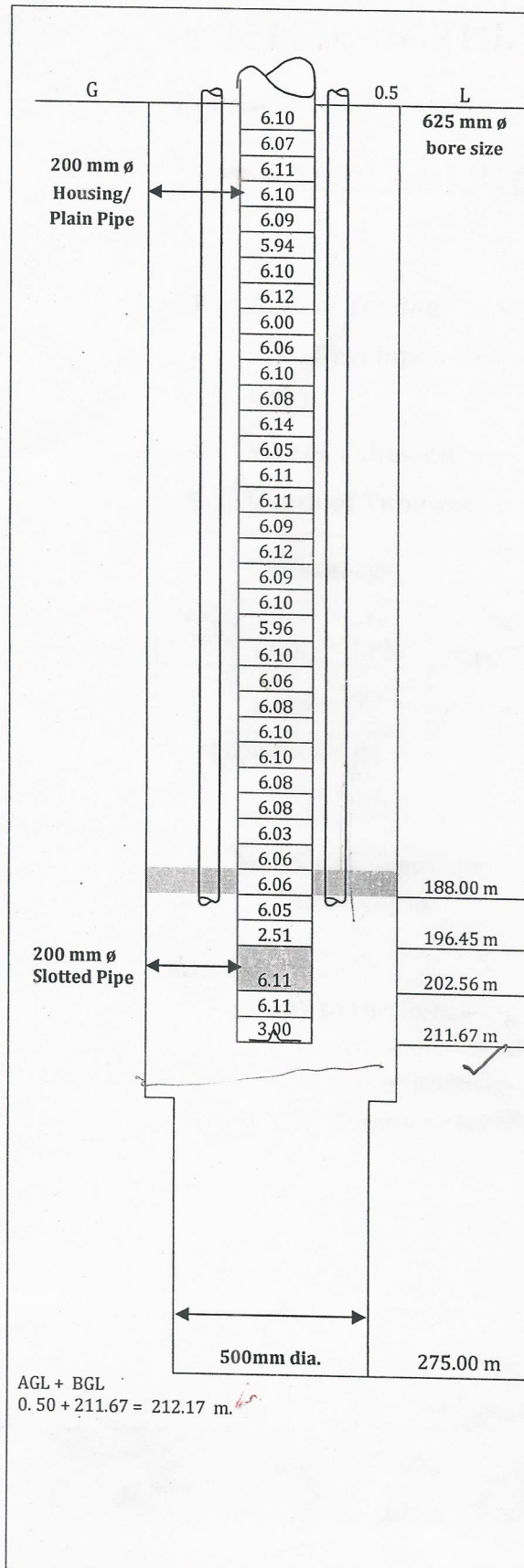
1. EE, TCD(E/M), UP Jal Nigam, Mau for information and necessary action.

Manager (Ground Water)

OFFICE OF THE EXECUTIVE ENGINEER TEMP. CONST.DIV.(E&M) U.P. JAL NIGAM, MAU

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Rampur water supply scheme T.W. No-2, Block- Rasra, District- Ballia. (Under Programme- NWQSM)

(Not to Scale)



Detail of Lowering

Date - 25-12-2020

1	Drilling depth	275 m.
2	Total housing/ Plain pipe dia 200 mm	206.06 m.
4	Total Slotted pipe dia 200mm	6.11 m.
5	Size of assembly lowering	200mm x 200 mm
8	BGL.	211.67 m.
9	Total Length of assembly	212.17 m.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	12.00	12.00	Surface Clay
12.00	24.00	12.00	Sandy Clay
24.00	36.00	12.00	Fine Sand
36.00	48.00	12.00	Sandy Clay
48.00	66.00	18.00	Fine Sand
66.00	72.00	6.00	Clay
72.00	96.00	24.00	Fine Sand
96.00	132.00	36.00	Fine to medium Sand
132.00	184.00	52.00	V. Fine Sand with Kankar Intermixed
184.00	192.00	8.00	Clay Kankar Intermixed
192.00	204.00	12.00	Fine to medium Sand
204.00	210.00	6.00	V. Fine Sand
210.00	216.00	6.00	Clay
216.00	226.00	10.00	V. Fine Sand
226.00	231.00	5.00	Sandy Clay
231.00	246.00	15.00	Fine Sand
246.00	252.00	6.00	Clay
252.00	256.00	4.00	V. Fine Sand
256.00	268.00	12.00	Kankar Clay Intermixed

Logging Report

Date 11-09-2020

SL.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	27.0-32.0	5.0	Good, fine sand
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Zone Testing done at following depth

S. N.	Zones (In meter)	Ars. mg/l	Ir. mg/l	Fl. mg/l	Result
1	238.00	BDL	1.43	1.30	Not Satisfactory
2	232.00	BDL	0.83	1.34	Not Satisfactory
3	196.00	BDL	BDL	0.85	Satisfactory

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test : - 08-05-2021

Date of Test :- 08-05-2021							Starting Sand in P.P.M.	Sand contents in P.P.M. After				Remark
Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in			5 Min	10 Min	15 Min	20 Min	
	In Inches	In L.P.M	Starting	Running	Kg/c m ²	m						
1	6	775	19.00	18.00	1.00	10.00	10000	8500	6500	5000	3000	

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

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

Discharge measured by crifice meter- 150mm. x125 mm. size.

Date of Test :- 11-06-2021

Sl. No.	Discharge		Water level in m.		Depressi on 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	10	502	13.12	6.10	7.02	400	300	50	Tr	Tr	
2	6	408	12.44	6.10	6.34	200	100	50	Tr	Tr	
3	4	302	10.60	6.10	4.50	50	Tr	Tr	Cl	Cl	

Recommended Discharge 300 LPM after 15 min. in by pass.

M/s Shiva Associate,
Gorakhpur Contractor

(J.Ranjan)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.K. Gupta)
Executive Engineer