



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Semri Rampur, Block Beruarbari
2. District:- Ballia
3. Dt. Of logging:- 25.01.2021 .
4. Drilled depth(as reported by concerned JE):- 275.0mbgl
5. Logged depth:- 270.0 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	28.0-43.0	15.0	CLAY
2	47.0-51.0	4.0	Good
3	54.0-73.0	19.0	Good
4	77.0-81.0	4.0	CLAY
5	211.0-214.0	3.0	CLAY
6	225.0-229.0	4.0	Good to Moderate fine sand
7	231.0-234.0	3.0	CLAY
8	235.0-242.0	7.0	Good to Moderate fine sand

Between 80.0 mbgl to 210.0 mbgl the formation water quality is deteriorating from marginal to saline.

S. K. Chandra / S. J. Chandra

S. Sahai

(Dr. S.Sahai)

Manager (Groundwater)

c.c.

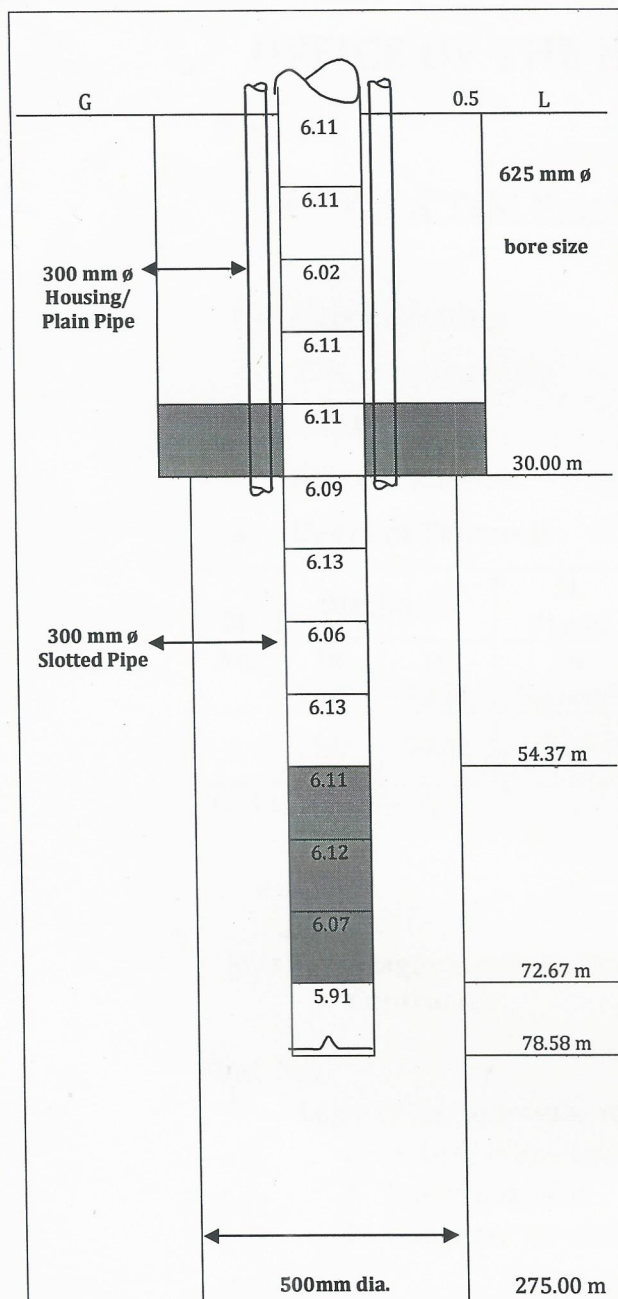
1. EE, TCD(E/M), UP Jal Nigam, Mau for information and necessary action..

S. Sahai

Manager (Groundwater)

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Semri Rampur water supply scheme, Block- Beruarbari, District- Ballia. (Under Programme- NWQSM)

(Not to Scale)



AGL + BGL
0.50 + 78.58 = 79.08 m.

Detail of Lowering

Date - 10-03-2021

1	Drilling depth	275 m.
2	Total housing/ Plain pipe dia 300 mm	60.78 m.
4	Total Slotted pipe dia 300mm	18.30 m.
5	Size of assembly lowering	300mmø x 300 mmø
8	BGL	78.58 m.
9	Total Length of assembly	79.08 m.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	6.00	6.00	Surface Clay
6.00	27.00	21.00	Fine Sand
27.00	47.00	20.00	Clay
47.00	51.00	4.00	V. Fine Sand
51.00	74.00	23.00	Fine to M. Sand
74.00	84.00	10.00	Clay
84.00	102.00	18.00	Fine Sand
102.00	214.00	112.00	Clay Kankar Intermixed
214.00	225.00	11.00	V. Fine Sand
225.00	229.00	4.00	Fine Sand
229.00	234.00	5.00	Clay
234.00	242.00	8.00	V. Fine Sand
242.00	275.00	33.00	Clay

Logging Report

Date 21-01-2021

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	28.0-43.0	15.0	CLAY
2	47.0-51.0	4.0	Good
3	54.0-73.0	19.0	Good
4	77.0-81.0	4.0	CLAY
5	211.0-214.0	3.0	CLAY
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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	54.00 - 73.00	0.001	0.275	0.28	Satisfactory

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test :- 22-04-2021

Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in		Starting Sand in P.P.M.	Sand contents in P.P.M. After				Remark
	In Inches	In L.P.M	Starting	Running	Kg/c m ²	m		5 Min	10 Min	15 Min	20 Min	
1	10	2943	7.00	6.50	0.50	5.00	5000	1500	700	500	500	

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- 100mm. x80 mm. size.

Date of Test :- 14-05-2021

Sl. No.	Discharge		Water level in m.		Depression in meters	Starting	Sand contents in P.P.M. After				Remark
	In Inches	In L.P.M	Running	Static			5 Min	10 Min	15 Min	20 Min	
1	50	1120	7.80	4.00	3.80	500	100	50	50	Tr	
2	40	1000	7.20	4.00	3.20	100	50	Tr	Cl	Cl	
3	30	870	6.50	4.00	2.50	50	Tr	Cl	Cl	Cl	

Recommended Discharge 700 LPM after 10 min. in by pass.

M/s Premsagar Singh, Ballia
Contractor

(J.Ranjan)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.K. Gupta)
Executive Engineer