



GRAM :- JAL NIGAM

Phone:- 0522 - 2220173, 2220272

UTTAR PRADESH JAL NIGAM

Ref :- _____

Dated :-

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Parvatpur, Block Bansdeeh
2. District:- Ballia
3. Dt. Of logging:- 27.06.2020
4. Drilled depth(as reported by concerned JE):- 275.0 mbgl
5. Logged depth:- 254.0 mbgl
6. Logger no.:- AquaXplore, Lucknow
7. Concerned JE:- :- Er. Sudhir Kumar
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	30.0-40.0	18.0	Good
2	43.0-57.0	14.0	Good
3	62.0-85.0	23.0	Good
4	85.0-90.0	5.0	CLAY
5	91.0-98.0	7.0	Good, fine sand kanker intermixed
6	125.0-132.0	7.0	Good, fine sand kanker intermixed
7	140.0-144.0	4.0	CLAY
8	165.0-168.0	3.0	Good, very very fine sand kanker intermixed
9	172.0-175.0	3.0	Good, fine sand kanker intermixed
10	190.0-220.0	30.0	Clay kanker intermixed
11	221.0-224.0	3.0	Good, very very fine sand kanker intermixed
12	225.0-250.0	25.0	Clay kanker intermixed
13	252.0-254.0	2.0	Good

Handwritten signature: Dr. S. Sahai
Handwritten signature: Sri G. K. A. E. / Sri J. K. A. E.

(Dr. S.Sahai)

Manager (Ground Water)

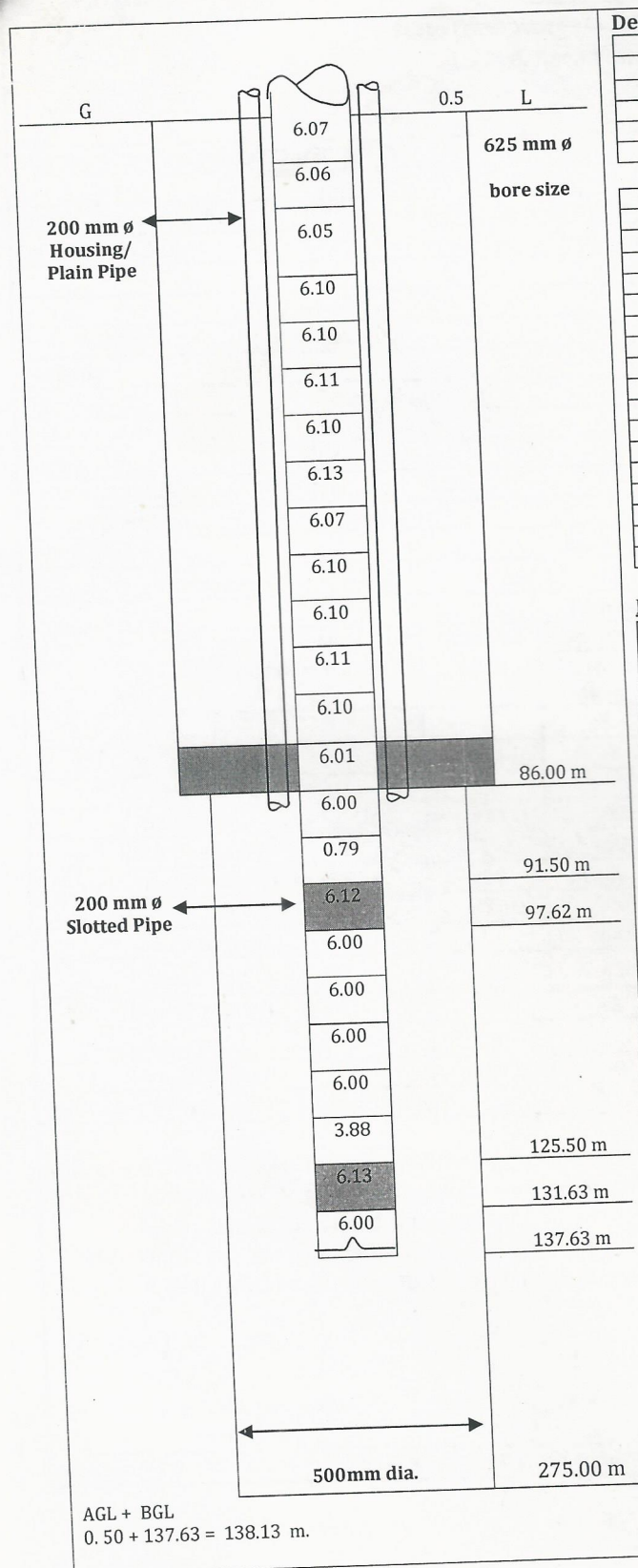
c.c.

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

Handwritten signature: Dr. S. Sahai
Manager (Ground Water)

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Parvatpur water supply scheme T.W. No-1, Block- Bansdih, District- Ballia. (Under Programme- NWQSM)

(Not to Scale)



Detail of Lowering

Date - 13-01-2021

1	Drilling depth	275 m.
2	Total housing/ Plain pipe dia 200 mm	125.88 m.
4	Total Slotted pipe dia 200mm	12.25 m.
5	Size of assembly lowering	200mmø x 200 mmø
8	BGL.	137.63 m.
9	Total Length of assembly	138.13 m.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	6.00	6.00	Surface Clay
6.00	24.00	18.00	V. Fine Sand
24.00	60.00	36.00	Fine to medium Sand
60.00	84.00	24.00	Fine Sand Kanker Intermixed
84.00	90.00	6.00	Clay
90.00	99.00	9.00	Fine Sand Kanker Intermixed
99.00	120.00	21.00	V. Fine Sand Kanker Intermixed
120.00	132.00	12.00	Fine Sand Kanker Intermixed
132.00	160.00	28.00	Clay Kanker Intermixed
160.00	168.00	8.00	V. Fine Sand Kanker Intermixed
168.00	172.00	4.00	Clay Kanker Intermixed
172.00	178.00	6.00	Fine Sand
178.00	220.00	42.00	Clay Kanker
220.00	225.00	5.00	V. V. Fine Sand
225.00	250.00	25.00	Clay Kanker Intermixed
250.00	254.00	4.00	Fine Sand
254.00	275.00	21.00	Clay

Logging Report

Date 27-06-2020

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	30.0-40.0	18.0	Good
2	43.0-57.0	14.0	Good
3	62.0-85.0	23.0	Good
4	85.0-90.0	5.0	CLAY
5	91.0-98.0	7.0	Good, fine sand kanker intermixed
6	125.0-132.0	7.0	Good, fine sand kanker intermixed
7	140.0-144.0	4.0	CLAY
8	165.0-168.0	3.0	Good, very very fine sand kanker intermixed
9	172.0-175.0	3.0	Good, fine sand kanker intermixed
10	190.0-220.0	30.0	Clay kanker intermixed
11	221.0-224.0	3.0	Good, very very fine sand kanker intermixed
12	225.0-250.0	25.0	Clay kanker intermixed
13	252.0-254.0	2.0	Good

Zone Testing done at following depth

S. N.	Zones (In meter)	Ars. mg/l	Ir. mg/l	Fl. mg/l	Result
1	125.00	132.00	BDL	0.29	Satisfactory
2	91.00	98.00	BDL	0.51	Satisfactory

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Date of Test : - 23-02-2021

Discharge measured by 90° "V" Notch.

Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in Kg/c m ²		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	7	1144	12.50	11.50	1.00	10.00	4500	3000	2000	1500	1100	

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 :- 03-03-2021

Sl. No.	Discharge		Water level in m.		Depressi on in meters	Sand contents in P.P.M. After					Remar k
	In Inches	In L.P.M	Running	Static		Starting	5 Min	10 Min	15 Min	20 Min	
1	7½	450	11.60	3.04	8.56	100	50	Tr	Tr	Cl	
2	7	435	10.36	3.04	7.32	50	Tr	Cl	Cl	Cl	
3	6	408	9.12	3.04	6.08	Tr	Cl	Cl	Cl	Cl	

Recommended Discharge 400 LPM after 5 min. in by pass.

M/s Rameshwar Singh, Ballia
Contractor

(J.Ranjan)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.K. Gupta)
Executive Engineer