



GRAM :- JAL NIGAM

Phone:- 0522 - 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Saidpur TW, Block Maharajganj
2. District:- Azamgarh
3. Dt. Of logging:- 02.03.2020
4. Drilled depth(as reported by concerned JE):- 275.0 mbgl
5. Logged depth:- 270.0 mbgl
6. Logger no.:- AquaXplore, Lucknow
7. Concerned JE:- Er.,S.P.Yadav, 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	25.0-48.0	23.0	Good
2	51.0-54.0	3.0	CLAY
3	60.0-83.0	23.0	Good
4	90.0-97.0	7.0	Good
5	100.0-104.0	4.0	CLAY
6	116.0-120.0	4.0	Good
7	127.0-137.0	10.0	CLAY
8	140.0-145.0	5.0	Good
9	158.0-161.0	3.0	CLAY
10	236.0-241.0	5.0	CLAY
11	243.0-257.0	14.0	Good

(Dr. S.Sahai)

Manager (Ground Water)

c.c.

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

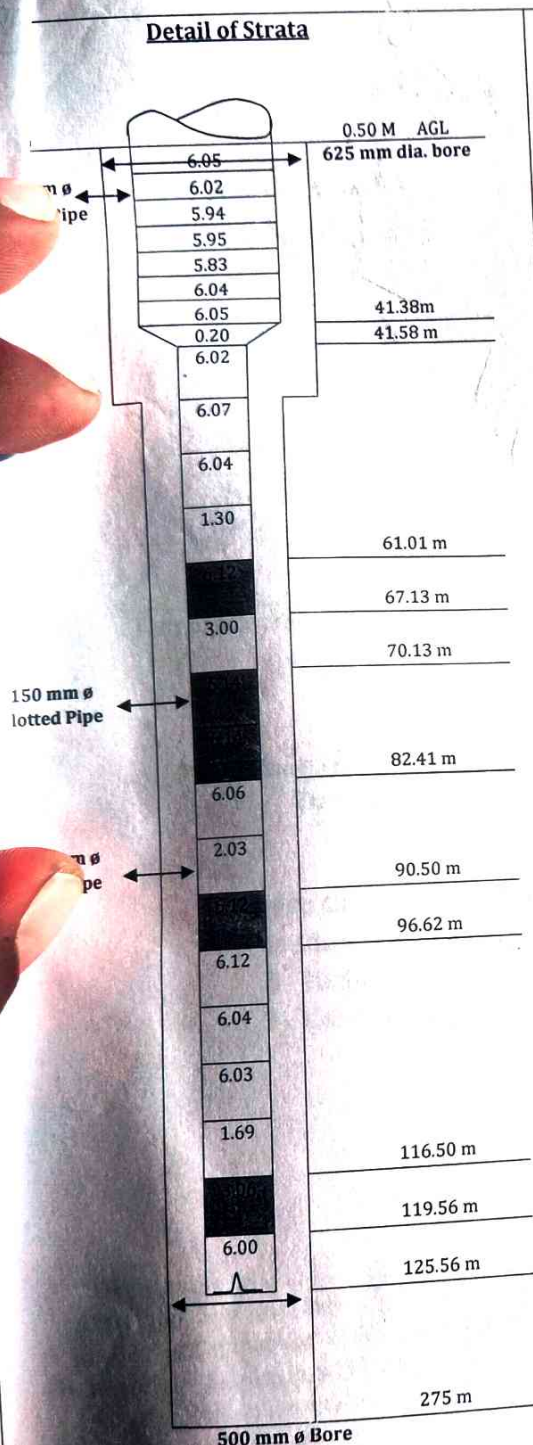
Manager (Ground Water)

OF THE EXECUTIVE ENGINEER TEMP. CONST.DIV.(E&M)

U.P. JAL NIGAM, MAU.

Completion Plan of Tube well Assembly Chart cum strata Chart For Saidpur water supply scheme, Block- Mahariganj, District- Azamgarh.

(Not to Scale)



Detail of Lowering Date- 13-05-2020

1	Drilling depth	275 m.
2	Size of assembly lowering	300mm ϕ x150 mm ϕ
3	Total housing pipe 300 mm dia.	41.88 m.
4	Total Plain pipe 150 mm dia.	56.42 m.
5	Total Slotted pipe 150mm dia.	27.58 m.
6	M.S. Reducer 300mm ϕ x150 mm ϕ	0.22 m.
8	Total Length of assembly	126.06 m.
7	BGL.	125.56 m.

Detail of Physical Strata encountered during drilling

From (m)	To (m)	Thick (m)	Description of the Strata
0.00	6.00	6.00	Sandy Clay
6.00	24.00	18.00	Clay with Kankar
24.00	48.00	24.00	V. Fine Sand
48.00	54.00	6.00	Clay
54.00	60.00	6.00	Clay Kankar
60.00	85.00	25.00	Fine Sand
85.00	90.00	5.00	Sandy Clay
90.00	98.00	8.00	Fine Sand
98.00	105.00	7.00	Clay
105.00	116.00	11.00	Clay with Kankar
116.00	122.00	6.00	Fine Sand
122.00	137.00	12.00	Clay
137.00	140.00	3.00	Sandy Clay
140.00	148.00	8.00	V Fine Sand
148.00	156.00	8.00	Sandy Clay
156.00	161.00	5.00	Clay
161.00	198.00	37.00	Clay with Kankar
198.00	232.00	34.00	Sandy Clay with Kankar
232.00	242.00	10.00	Clay
242.00	258.00	16.00	V. Fine Sand with Kankar
258.00	275.00	17.00	Clay

Logging Report Date 02-03-2020

Sl.No.	Depth range (mbgl)	Thickness (m)	Remarks
1	25.0-48.0	23.0	Good
2	51.0-54.0	3.0	CLAY
3	60.0-83.0	23.0	Good
4	90.0-97.0	7.0	Good
5	100.0-104.0	4.0	CLAY
6	116.0-120.0	4.0	Good
7	127.0-137.0	10.0	CLAY
8	140.0-145.0	5.0	Good
9	158.0-161.0	3.0	CLAY
10	236.0-241.0	5.0	Good
11	243.0-257.0	14.0	Good

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test : - 21-05-2020

Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in m	Starting Sand in P.P.M.	Sand contents in P.P.M. After				Remark	
	In Inches	In L.P.M	Starting	Runni ng			5 Min	10 Min	15 Min	20 Min		
1	9	2109	11.30	10.80	0.50	5.00	4500	3500	2000	1500	900	

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

YIELD TEST REPORT OF T.W BY O.P. UNIT Date of Test :- 29-05-2020

Discharge measured by orifice meter- 150mm. x100 mm. size.

Sl. No.	Discharge		Water level in m.		Depres sion 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	10	1488	7.75	5.50	2.25	100	50	20	Tr	Cl	
2	8	1325	7.45	5.50	1.95	50	20	Tr	Cl	Cl	
3	5	908	7.00	5.50	1.50	Tr	Cl	Cl	Cl	Cl	

Recommended Discharge 800 LPM after 5 min. in by pass.

AGL + BGL
0.50 + 125.56 = 126.06 m.

(M/s Ratan Kumar, Azamgarh)
Contractor

(S.P. Yadav)
J. E.

(M.N. Maurya)
Assistant Engineer

(J.K. Gupta)
Executive Engineer