



GRAM :- JAL NIGAM

Phone:- 0522 - 2220173, 2220272

UTTAR PRADESH JAL NIGAM

Ref :- _____

Dated :-

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Gajahra TW 2, Block Mubarakpur
2. District:- Azamgarh
3. Dt. Of logging:- 04.01.2020
4. Drilled depth(as reported):- 220.0mbgl
5. Logged depth:- 215.00mbgl
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	28.0-36.0	8.0	Good, fine sand kanker intermixed
2	52.0-65.0	13.0	Good
3	70.0-77.0	7.0	Good, fine sand kanker intermixed

Below 88.0 mbgl till depth logged the quality of formation water is deteriorating from marginal to saline.

S. Sahai

(Dr. S.Sahai)

Manager (Ground Water)

c.c.

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

S. Sahai

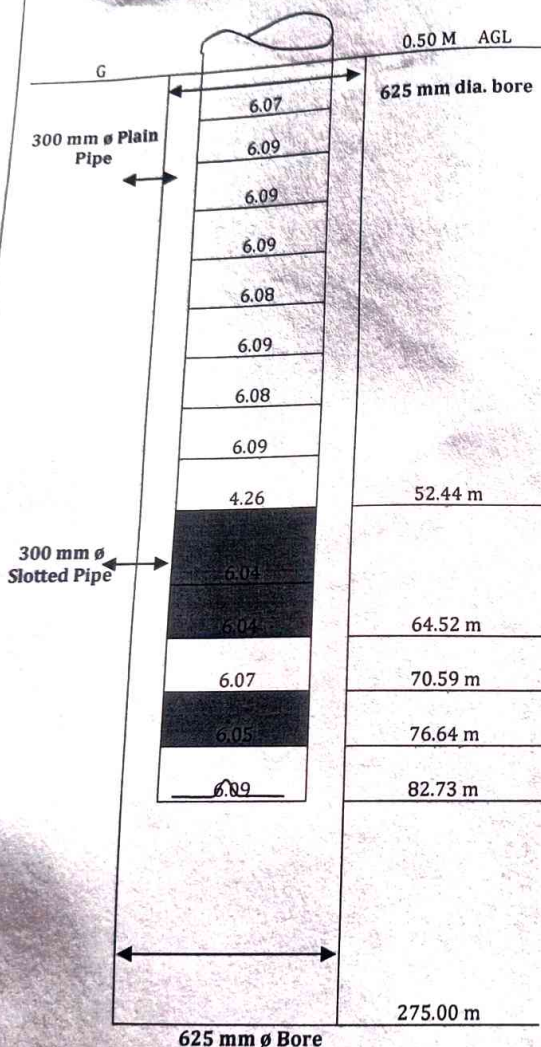
Manager (Ground Water)

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 Gajahara water supply scheme T.W. No-2, Block- Sathiyoon, District- Azamgarh.

(Not to Scale)

Detail of Strata



AGL + BGL
 0.50 + 82.73 = 73.23 m.

Detail of Lowering

		Dated- 12-01-2020
1	Drilling depth	275 m.
2	Drilling by contractor	D.C. Rig M/C
3	Total Plain pipe dia 300 mm	65.10 m.
4	Total Slotted pipe dia 300 mm	18.13 m.
5	Size of assembly lowering	300 mmø x 300 mmø

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	18.00	18.00	Clay with Fine Kankar
18.00	26.00	8.00	Clay Kankar
26.00	40.00	14.00	V. Fine Sand
40.00	51.00	11.00	Clay
51.00	66.00	15.00	Kankar with Fine Sand
66.00	71.00	5.00	Kankar
71.00	95.00	24.00	Fine Sand with Kankar
95.00	119.00	24.00	Clay
119.00	131.00	12.00	Kankar
131.00	154.00	23.00	Kankar Clay
154.00	166.00	12.00	Clay with Fine Kankar
166.00	172.00	6.00	Kankar
172.00	190.00	18.00	Clay
190.00	202.00	12.00	Kankar
202.00	226.00	24.00	Kankar Clay
226.00	250.00	24.00	Clay
250.00	275.00	25.00	Kankar with Sandy Clay

Logging Report

Date 04-01-2020

Sl.N.	Depth Range (mbgl)	Thicknes s (m)	Remark
1	28.0-36.0	8.0	Good, fine sand kanker intermixed
2	52.0-65.0	13.0	Good
3	70.0-77.0	7.0	Good, fine sand kanker intermixed

Note- Below 88.0 mbgl till depth logged the quality of formation water is deteriorating from marginal to saline.

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test : - 08-03-2020

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	Runnin g	Kg/c m ²	m		5 Min	10 Min	15 Min	20 Min	
1	9	2109	6.80	6.40	0.40	4.00	4800	3000	2200	1500	1000	

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- 150mm. x125 mm. size.

Date of Test :- 04-05-2020

Sl. No.	Discharge		Water level in m.		Depression in meters	Sand contents in P.P.M.					Remarks
	In Inches	In L.P.M	Running	Static		Starting	After				
							5 Min	10 Min	15 Min	20 Min	
1	12	1628	9.95	6.00	3.95	150	100	50	Tr	Cl	
2	8	1325	9.25	6.00	3.25	100	50	Tr	Cl	Cl	
3	6	1154	8.50	6.00	2.50	50	Tr	Cl	Cl	Cl	

Recommended Discharge 1100 LPM after 10 min. in by pass.

M/s Maa Shanti Construction,
 Kanpur, Contractor

(S.P. Yadav)
 J. E.

(M.N. Maurya)
 Assistant Engineer

(J.K. Gupta)
 Executive Engineer