



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Surajpur, Doharighat
2. District:- Mau
3. Dt. Of logging:- 14.02.2021
4. Drilled depth(as verified dt. 15.2.21 by concerned JE):- 275.0mbgl
5. Logged depth:- 275.0 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	48.0-53.0	5.0	Good
2	69.0-99.0	30.0	Good
3	108.0-111.0	3.0	Good
4	144.0-149.0	5.0	Good
5	172.0-176.0	4.0	Good
6	209.0-213.0	4.0	Good
7	219.0-226.0	7.0	Good
8	260.0-263.0	3.0	Good, fine sand

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

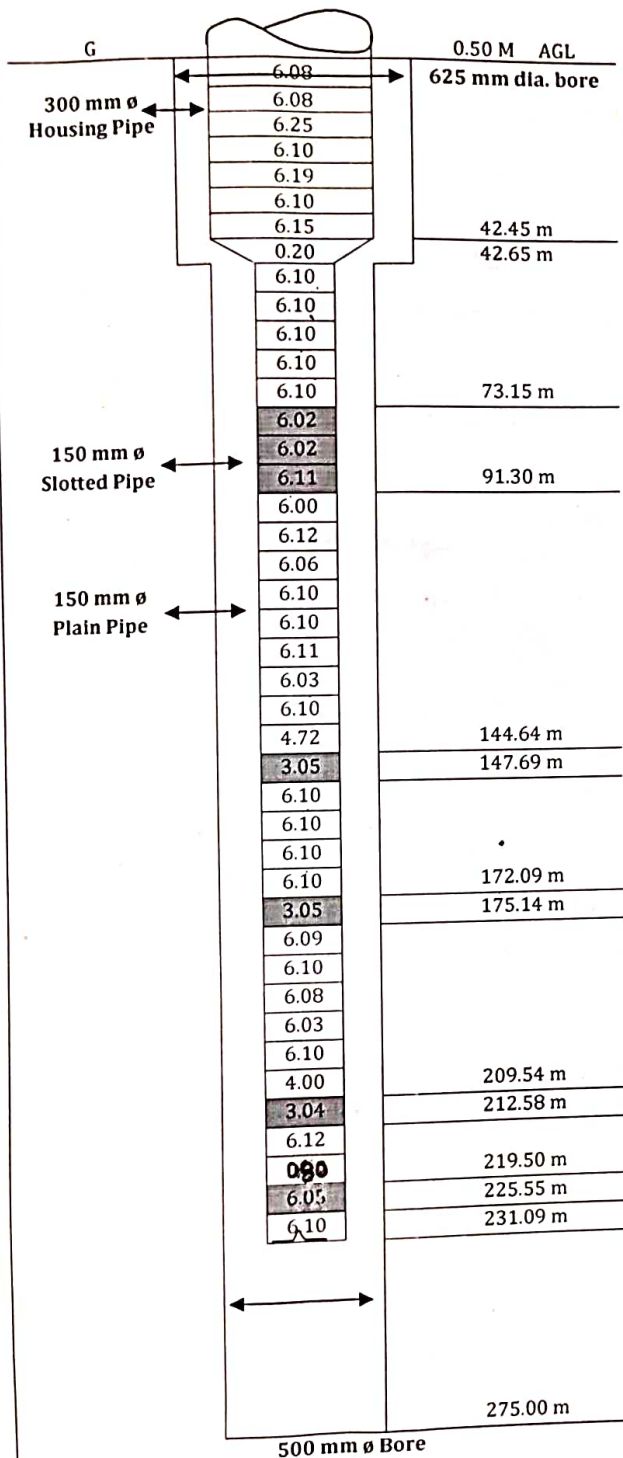
Manager (Groundwater)

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 Surajpur water supply scheme. Block- Doharighat. District- Mau. (Under Programme- J.L.M.)

(Not to Scale)

Detail of Strata



Detail of Lowering

Date- 05-03-2021

1	Drilling depth	275 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Total housing pipe dia 300 mm	42.95 mt.
4	300mmø x 150 mmø M.S. Reduser	0.20 mt
5	Total Plain pipe dia 150 mm	155.36 mt.
6	Total Slotted pipe dia 150 mm	33.34 mt.
7	Size of assembly lowered	300mmø x 150 mmø

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	18.00	18.00	Sandy Clay
18.00	27.00	9.00	Fine Sand
27.00	47.00	20.00	Clay with Kankar Intermixed
47.00	54.00	7.00	Clay
54.00	68.00	14.00	Clay with Kankar
68.00	108.00	40.00	M. Sand
108.00	133.00	25.00	Clay with Kankar
133.00	150.00	17.00	M. Sand
150.00	163.00	13.00	Clay
163.00	171.00	8.00	Clay with Kankar
171.00	177.00	6.00	M. Sand
177.00	198.00	21.00	Clay
198.00	208.00	10.00	Clay with Kankar
208.00	214.00	6.00	M. Sand
214.00	218.00	4.00	Clay
218.00	226.00	8.00	M. Sand
226.00	239.00	13.00	Clay
239.00	252.00	13.00	Clay with Kankar
252.00	260.00	8.00	Clay
260.00	264.00	4.00	M. Sand
264.00	275.00	11.00	Clay

Logging Report

Date 14-02-2021

Sl. N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	48.0-53.0	5.0	Good
2	69.0-99.0	30.0	Good
3	108.0-111.0	3.0	Good
4	144.0-149.0	5.0	Good
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8	260.0-263.0	3.0	Good, fine sand

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test :- 27-03-2021

Discharge measured by 90° V Notch.							Date & Test No.					Remark
Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in		Starting Sand in P.P.M.	Sand contents in P.P.M. After				
	In Inches	In L.P.M	Starting	Runni ng	Kg/c m ²	mts		5 Min	10 Min	15 Min	20 Min	
1	9½	2410	22.00	21.00	1.00	10.00	9000	6000	2800	1800	1200	

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 :- 19-04-2021

Sl. No.	Discharge		Water level in mts.		Depres sion 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	1488	9.05	6.00	3.05	300	150	100	50	Tr	
2	8	1325	8.45	6.00	2.45	150	100	50	Tr	Cl	
3	7	1230	7.35	6.00	1.35	100	50	Tr	Cl	Cl	

Recommended Discharge 1000 LPM after 20 min. in by pass.

AGL + BGL
0.50 + 231.09 = 231.59 mts.

M/s Kamini Construction, Gorakhpur
Contractor

(Sudhir Kumar)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.R. Gupta)
Executive Engineer