



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

Ref :- _____

Dated :-

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Karnai TW2 , Hanumanganj
2. District:- Ballia
3. Dt. Of logging:-. 06.03.2021 (Log Received dt.09.03.2021)
4. Drilled depth(as reported dt.09.03.2021):- 158.0 mbgl
5. Logged depth:- 155.0 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	27.0 – 30.0	3.0	Good
2	35.0-52.0	17.0	Good
3	55.0-60.0	5.0	Clay
4	84.0-92.0	8.0	Clay
5	99.0-124.0	25.0	Good

(Dr. S.Sahai)

Manager (Ground Water)

c.c.

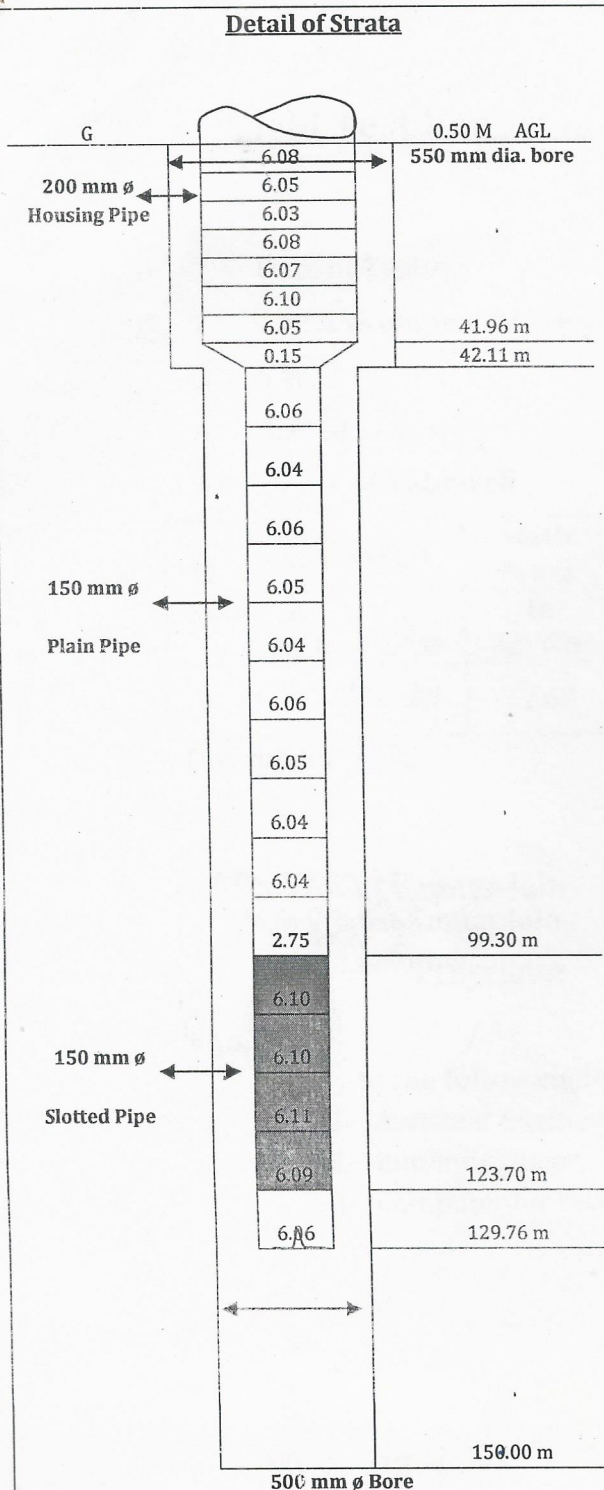
1. EE, TCD(E/M), UP Jal Nigam, Mau for information and necessary action.

Manager (Ground Water)

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Karnai water supply scheme T.W. No-2, Block- Hanumangani, District- Ballia. (Under Programme- J.L.M.)

(Not to Scale)

Detail of Strata



AGL + BGL
0.50 + 129.76 = 130.26 mts.

Detail of Lowering

Date- 15-03-2021

1	Drilling depth	158 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Total housing pipe dia 200 mm	42.46 mt.
4	200mmø x 150 mmø M.S. Reduser	0.15 mt.
5	Total Plain pipe dia 150 mm	63.25 mt.
6	Total Slotted pipe dia 150 mm	24.40 mt.
7	Size of assembly lowered	200mmø x 150 mmø

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	24.00	24.00	Surface Clay
24.00	30.00	6.00	Fine Sand
30.00	54.00	24.00	Fine to M. Sand
54.00	60.00	6.00	Clay
60.00	84.00	24.00	Kankar Clay
84.00	96.00	12.00	Clay
96.00	125.00	29.00	Fine to M. Sand
125.00	148.00	23.00	Clay Kankar
148.00	158.00	10.00	Clay

Logging Report

Date 06-03-2021

Sl. N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	27.0 - 30.0	3.0	Good
2	35.0 - 52.0	17.0	Good
3	55.0 - 60.0	5.0	CLAY
4	84.0 - 92.0	8.0	CLAY
5	99.0 - 124.0	25.0	Good

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch. Date of Test :- 20-03-2021

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 g	Running	Kg/c m ²	mts		5 Min	10 Min	15 Min	20 Min	
1	8	1587	12.60	12.10	0.50	5.00	9000	3000	1500	900	700	
Note- Recommended for development of T/W by O.P. Unit.												

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YIELD TEST REPORT OF T.W BY O.P. UNIT

Discharge measured by orifice meter- 5"x4" size.

Date of Test :- 27-03-2021

Date of Test: 27/05/2021

Sl. No.	Discharge		Water level in mts.		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	60	1220	12.60	8.50	4.10	400	200	100	50	50	
2	50	1120	11.68	8.50	3.18	200	100	50	Tr	Tr	
3	40	1007	11.48	8.50	2.98	100	50	Tr	Tr	Cl	
4	25½	802	11.20	8.50	2.70	50	Tr	Cl	Cl	Cl	

Recommended Discharge 800 LPM after 10 min. in by pass.

Recommended Discharge 800 LPM after 10 min. in by pass.

M/s Viddut Kumar Jain
M/s Viddut Kumar Jain Lucknow
Contractor Proprietor

(J. Ranjan)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.K. Gupta)
Executive Engineer