



UTTAR PRADESH JAL NIGAM

Ref :- _____

Dated :-

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Chitauni TW 1 Block Rasra
2. District:- Ballia
3. Dt. Of logging:- 21.09.2020
4. Drilled depth(as reported by concerned JE):- 275.0 mbgl
5. Logged depth:- 242.0 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	26.0-31.0	5.0	Good
2	32.0-37.0	5.0	Good
3	43.0-47.0	4.0	Good
4	48.0-50.0	2.0	CLAY
5	51.0-53.0	2.0	Good
6	60.0-68.0	8.0	Good
7	68.0-72.0	4.0	CLAY
8	72.0-79.0	7.0	Good
9	79.0-83.0	4.0	CLAY
10	85.0-98.0	13.0	Good

Below 100.0 mbgl till depth logged no clean sand formations encountered with quality of formation water deteriorating from marginal to saline.

(Dr. S.Sahai)

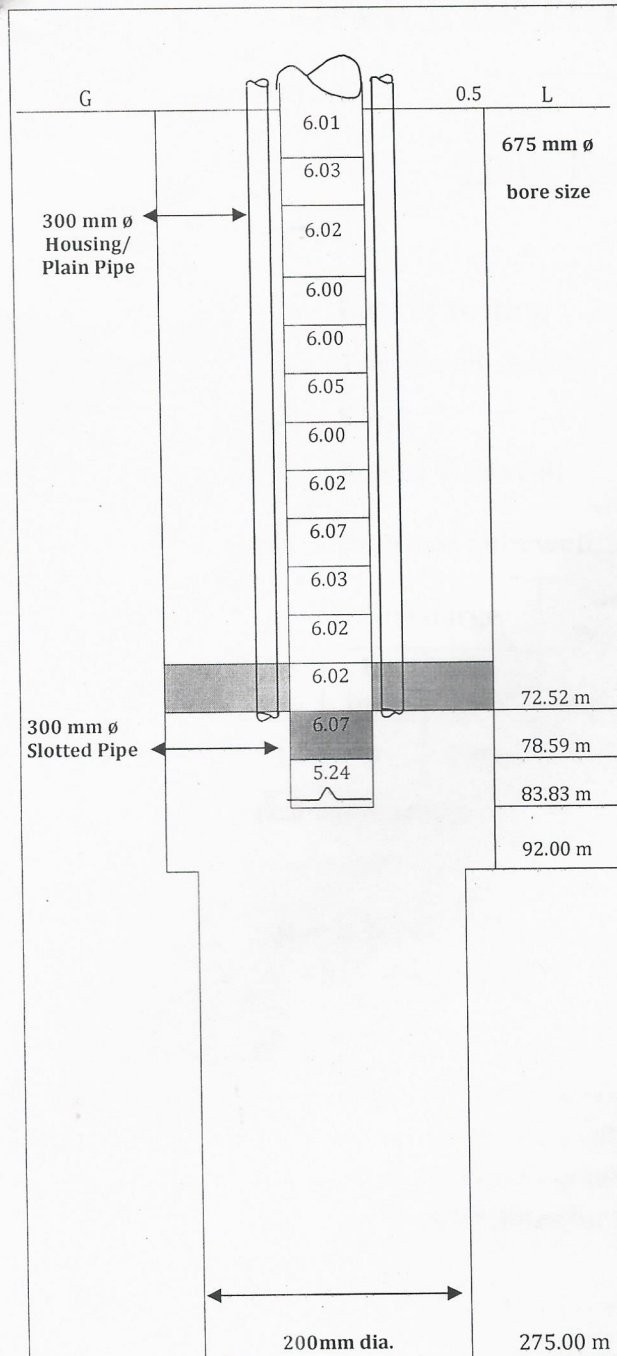
Manager (Ground Water)

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 Chhitauni water supply scheme T.W. No-1, Block- Rasra, District- Ballia. (Under Programme- NWQSM)

(Not to Scale)



Detail of Lowering

Date - 17-10-2020

1	Drilling depth	275 m.
2	Total housing/ Plain pipe dia 300 mm	78.26 m.
4	Total Slotted pipe dia 300mm	6.07 m.
5	Size of assembly lowering	300mm ϕ x 300 mm ϕ
8	BGL.	83.83 m.
9	Total Length of assembly	84.33 m.

Detail of Strata

From (m)	To (m)	Thick (m)	Desperation of the Strata
0.00	3.00	3.00	Surfice Clay
3.00	21.00	18.00	Sandy Clay
21.00	60.00	39.00	Kankar Clay
60.00	66.00	6.00	Fine Sand
66.00	72.00	6.00	Kankar Clay
72.00	81.00	9.00	Fine to medium Sand
81.00	85.00	4.00	Kankar Clay
85.00	99.00	14.00	Fine to medium Sand
99.00	108.00	9.00	Clay
108.00	114.00	6.00	Fine Sand
114.00	132.00	18.00	Clay
132.00	150.00	18.00	Fine Sand
150.00	230.00	80.00	Clay Kankar
230.00	275.00	45.00	Clay

Logging Report

Date 21-09-2020

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	26.0-31.0	5.0	Good
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Zone Testing done at following depth

S. N.	Zones (In meter)	Ars. mg/l	Ir. mg/l	Fl. mg/l	Result
1	85.0 98.0	BDL	0.92	1.17	Not Satisfactory
2	72.0 79.0	BDL	0.42	0.96	Satisfactory

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test : - 20-04-2021

Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in Kg/c m ² m		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	9	2350	7.00	6.50	0.50	5.00	4500	2500	1500	1100	900	

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 :- 08-05-2021

Sl. No.	Discharge		Water level in m.		Depressi on in meters	Sand contents in P.P.M.					Remar k
	In Inches	In L.P.M	Running	Static		Starting	After				
							5 Min	10 Min	15 Min	20 Min	
1	20	2074	11.90	6.00	5.90	900	100	50	50	50	
2	15	1817	10.67	6.00	4.67	800	100	50	Tr	Tr	
3	10	1487	9.14	6.00	3.14	400	50	Tr	Tr	Tr	
4	5	1060	8.92	6.00	2.92	200	Tr	Cl	Cl	Cl	

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

M/s Annpurna Construction
Gorakhpur Contractor

(J.Ranjan)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.K. Gupta)
Executive Engineer