



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

Dated :-

Ref :-

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Chapra, Block Dubahar
2. District:- Ballia
3. Dt. Of logging:- 25.01.2021
4. Drilled depth(as reported by concerned JE):- 155.0 mbgl
5. Logged depth:- 153.0 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	42.0-47.0	5.0	Good
2	52.0-57.0	5.0	Good
3	66.0-73.0	7.0	Good
4	78.0-82.0	4.0	Good
5	91.0-95.0	4.0	Good
6	99.0-108.0	9.0	CLAY
7	115.0-118.0	3.0	Good, fine sand kanker intermixed
8	120.0-124.0	4.0	Good, fine sand kanker intermixed
9	130.0-140.0	10.0	Good
10	144.0-151.0	7.0	Good

S. Sahai

(Dr. S.Sahai)

Manager (Ground Water)

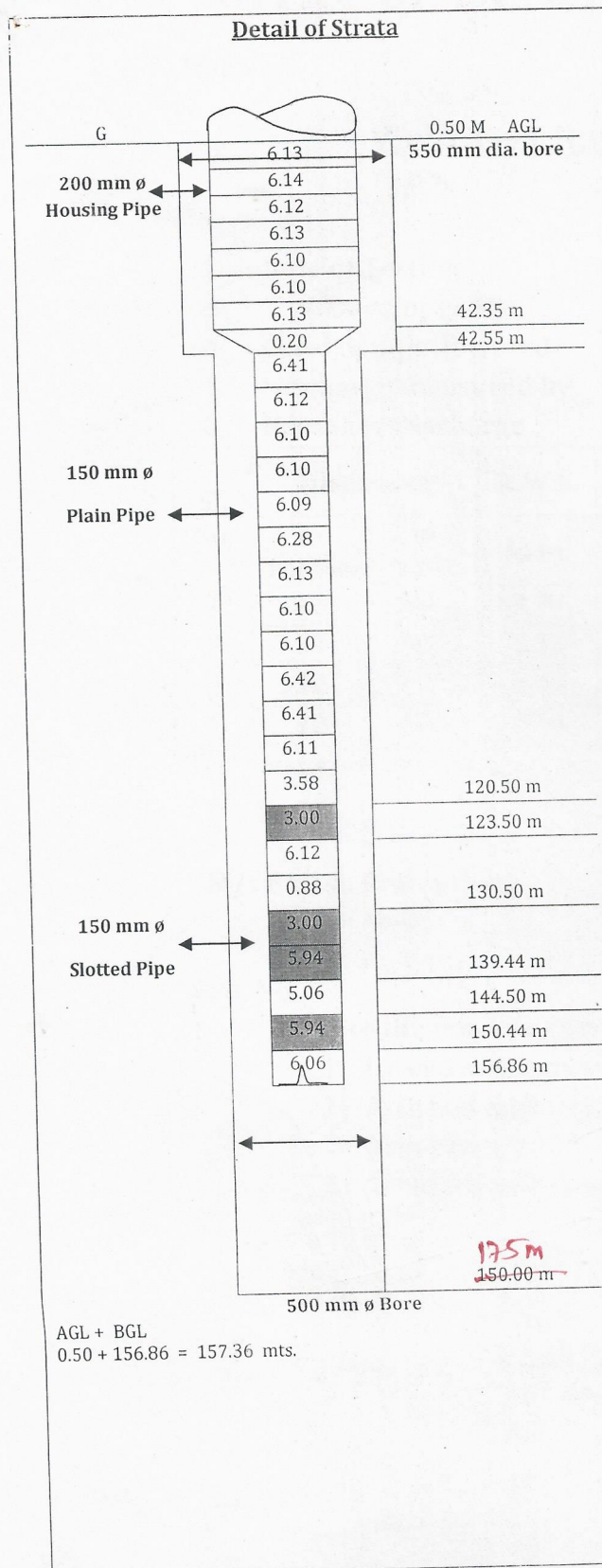
1. EE, TCD(E/M), UP Jal Nigam, Mau for information and necessary action.

S. Sahai

Manager (Ground Water)

Actual Completion Plan of Tube well Assembly Chart cum strata Chart For Chhapra water supply scheme, Block- Dubhar, District- Ballia. (Under Programme- I.J.M.)

(Not to Scale)



Detail of Lowering Date- 06-02-2021

1	Drilling depth	175 mts.
2	Drilling by contractor	D.C. Rig M/C
3	Total housing pipe dia 200 mm	42.85 mt.
4	200mmø x 150 mmø M.S. Reduser	0.20 mt.
5	Total Plain pipe dia 150 mm	96.43 mt.
6	Total Slotted pipe dia 150 mm	17.88 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	12.00	12.00	Surface Clay
12.00	42.00	30.00	Fine Sand
42.00	60.00	18.00	Fine Sand with Gravel
60.00	72.00	12.00	Kankar
72.00	90.00	18.00	Fine Sand with Kankar
90.00	102.00	12.00	Fine Sand
102.00	114.00	12.00	Fine to M. Sand
114.00	126.00	12.00	Fine Sand
126.00	150.00	24.00	Fine to M. Sand
150.00	160.00	10.00	V. Fine Sand
160.00	175.00	15.00	Clay

Logging Report Date 25-01-2021

Sl.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	42.0-47.0	5.0	Good
2	52.0-57.0	5.0	Good
3	66.0-73.0	7.0	Good
4	78.0-82.0	4.0	Good
5	91.0-95.0	4.0	Good
6	99.0-108.0	9.0	CLAY
7	115.0-118.0	3.0	Good, fine sand kanker intermixed
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10	144.0-151.0	7.0	Good

TEST REPORT OF T.W. DEVELOPMENT BY AIR COMPRESSOR

Discharge measured by 90° "V" Notch.

Date of Test : - 28-02-2021

Sl. No.	Discharge		Air Pressure in Kg/cm ²		Depression in		Startin g Sand in P.P.M.	Sand contents in P.P.M. After				Remark
	In Inches	In L.P.M	Startin g	Runni ng	Kg/c m ²	mts		5 Min	10 Min	15 Min	20 Min	
1	7	1144	14.50	14.00	0.50	5.00	5000	3000	2000	1500	1100	

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- 5"x4" size. Date of Test :- 08-03-2021

Sl. No.	Discharge		Water level in mts.		Depre ssion in meter s	Startin g	Sand contents in P.P.M. After				Rema rk
	In Inches	In L.P.M	Runnin g	Static			5 Min	10 Min	15 Min	20 Min	
1	40	1006	8.70	4.60	4.10	400	200	100	50	50	
2	30	870	8.38	4.60	3.78	100	50	Tr	Tr	Cl	
3	20	707	8.08	4.60	3.48	50	Tr	Cl	Cl	Cl	
4	10	503	7.70	4.60	3.10	Tr	Cl	Cl	Cl	Cl	

Recommended Discharge 500 LPM after 5 min. in by pass.

Signature
M/s Rajesh Pratap Singh, Varanasi
Contractor

Signature
(J. Ranjan)
J. E.

Signature
(P.C. Gupta)
Assistant Engineer

Signature
(J.N. Gupta)
Executive Engineer