



GRAM :- JAL NIGAM

Phone:- 0522 – 2220173, 2220272

UTTAR PRADESH JAL NIGAM

GEOPHYSICAL LOGGING REPORT

1. Name of the site:- Bigahi, Block Belahari
2. District:- Ballia
3. Dt. Of logging:- 09.04.2021
4. Drilled depth(as verified dt. 12.4.21 by concerned JE):- 155 .0 mbgl
5. Logged depth:- 154.0 mbgl
6. Logger no.:- AquaXplore, Lucknow
7. Concerned JE:- :- Er. Jyoti Ranjan
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 .	24.0-34.0	11.0	Good
2	41.0-49.0	8.0	Good
3	58.0-65.0	7.0	Good
4	71.0-88.0	17.0	Good
5	90.0-91.0	1.0	CLAY
6	107.0-109.0	2.0	CLAY
7	110.0-120.0	10.0	Good
8	133.0-144.0	11.0	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)

M/s Nitin Construction Company, Indira Nagar, Lucknow

Proposed Tube well Assembly Chart cum strata Chart For Bigahi water supply scheme, Block- Belahari, District- Ballia. (Under Programme- I.J.M.)

Name of Client :- Executive Engineer Temp. Construction Division (E/M), U.P. Jal Nigam Mau.

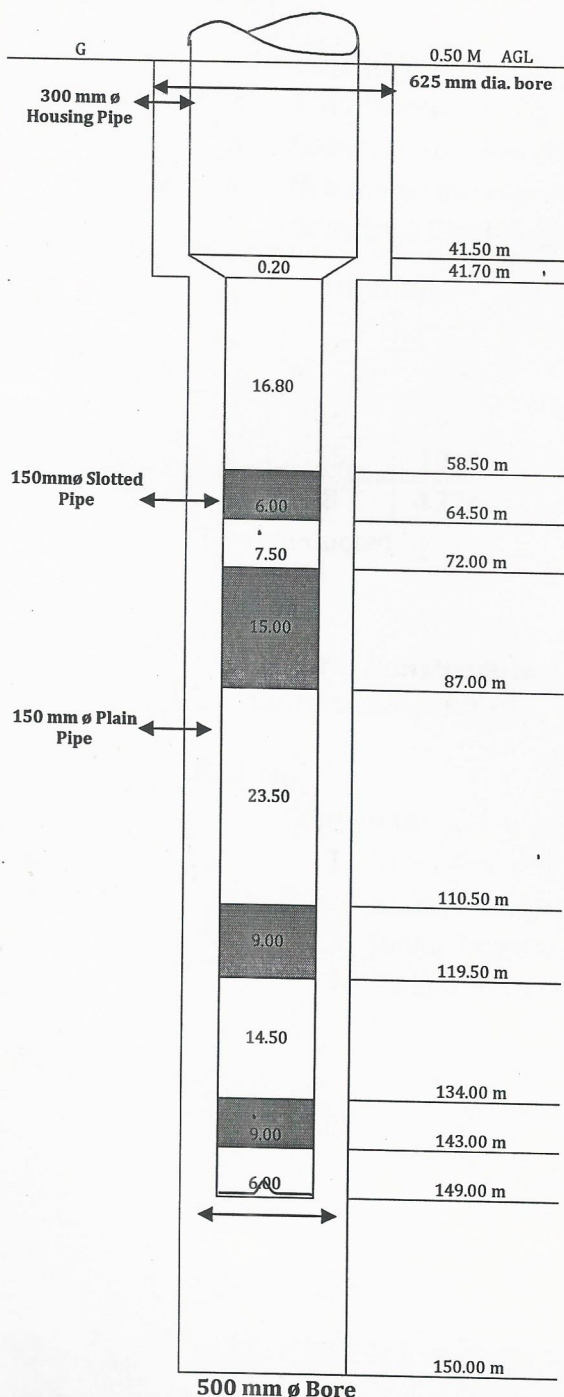
Tube well Site :- Bigahi T.W.

Size of T.W. assy. - 300mm x 150 mm dia.

Required Discharge of Tubewell :- 1200 LPM

(Not to Scale)

Detail of Strata



AGL + BGL
0.5 + 149.00 = 149.50 m

Detail of Lowering

1	Drilling depth	155.00 m
2	Total housing pipe 300 mm dia	42.00 m
3	Total Plain pipe 150 mm dia	67.80 m
4	Total Slotted pipe 150mm dia	39.00 m
5	Size of assembly lowering	300mm x 150 mm
6	M.S. Reducer 300mm x 150 mm	0.20 m
7	BGL.	149.00 m
8	Total Length of assembly	149.50 m

Detail of Physical Strata encountered during drilling

From (m)	To (m)	Thick (m)	Description of the Strata
0.00	6.00	6.00	Surface Clay
6.00	18.00	12.00	Sandy Clay
18.00	36.00	18.00	Fine to Sand
36.00	42.00	6.00	Fine Sand with Kankar
42.00	51.00	9.00	Fine to M. Sand
51.00	57.00	6.00	Fine Sand
57.00	66.00	9.00	Fine to M. Sand
66.00	69.00	3.00	V. Fine Sand
69.00	90.00	21.00	Fine to M. Sand
90.00	92.00	2.00	Clay
92.00	106.00	14.00	Sandy Clay
106.00	109.00	3.00	Clay
109.00	121.00	12.00	Fine to M. Sand
121.00	131.00	10.00	V. Fine Sand
131.00	145.00	14.00	Fine to M. Sand
145.00	155.00	10.00	Clay

Logging Report

Date 09-04-2021

SL.N.	Depth Range (mbgl)	Thicknees (m)	Remark
1	24.0-34.0	11.0	Good
2	41.0-49.0	8.0	Good
3	58.0-65.0	7.0	Good
4	71.0-88.0	17.0	Good
5	90.0-91.0	1.0	CLAY
6	107.0-109.0	2.0	CLAY
7	110.0-120.0	10.0	Good
8	133.0-144.0	11.0	Good

Proposed By

Recommended By

Approved

M/s Nitin Construction Company,
Lucknow Contractor

(J. Ranjan)
J. E.

(P.C. Gupta)
Assistant Engineer

(J.K. Gupta)
Executive Engineer