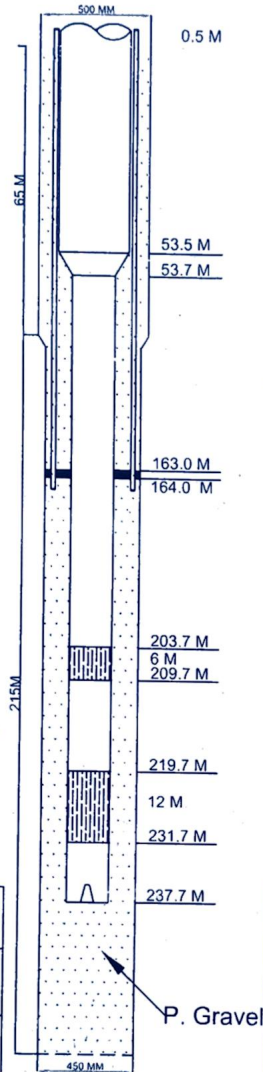


Name of work :- Construction of T. W. of G.P. BHOZPUR, Block-Nakaha, District, Lakhimpur Kheri.
Name of Program :- J. J. M-2
Name of client :- S.W.S.M. & U.P. JAL NIGAM (R)
Name of Contractor :- M/S NCC Limited
Name of TPI :- Ceinsys Tech Limited
Contract Agreement :- 64/ED/2020-21 Dated on 12.03.2021
Cover Agreement :- 648/ED/Phase-2/2022-23/XVI, Dt. 23.03.2023
Lowered Assembly Chart of T. W of BHOZPUR G.P W/S Scheme District :- Lakhimpur Kheri.

Strata

0-5 M, Surface Soil
5-11 M, Clay Kankar
11-18 M, Fine Sand
18-23 M, Clay Kankar
23-31 M, Fine to Medium Sand
31-45 M, Clay Kankar
45-63 M, Medium Sand
63-70 M, Clay Kankar
70-81 M, Medium Sand
81-89 M, Clay Kankar
89-94 M, Medium Sand & Kankar
94-110 M, Clay Kankar
110-161 M, Medium Sand & Kankar
161-192 M, Clay Kankar
192-212 M, Medium Sand
212-219 M, Clay Kankar
219-232 M, Medium Sand
232-250 M, Clay Kankar



ABSTRACT	
1	Type of Rig Machine :- DC/RC
2	Static Water level :-
3	Required Discharge :- 580 LPM
4	Bore Size (MM) :- 500x450
5	Assembly Size (MM) :- 200 x 150
6	Drilling Starting Date :- 21/11/2023
7	Drilling Completion Date :- 26/11/2023
8	Total Depth Of Drilling :- 280 M
9	Logging Date :- 27/11/2023
10	Logging Depth :- 250 M

Logging Report			
Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	45-63	18	Fine to Medium Sand (Good All)
2	70-81	11	
3	89-94	6	
4	110-161	51	
5	192-212	20	
6	219-232	13	

Sr. No	Description	Zone-1 (219-232 M) Aquifer/Liner / Test result	Zone-2 (192-212 M) Aquifer/Liner / Test result	Zone-2 (110-161 M) Aquifer/Liner / Test result
1	Fluoride (as F)*	1.00 / 0.355	1.00 / 0.425	1.00 / 0.454
2	Iron (As Fe)*	1.00 / 0.750	1.00 / 0.940	1.00 / 1.150
3	Total Arsenic (As As)	0.01/ 0.006	0.01/ 0.016	0.01/ 0.026

11. Details of Lowered Assembly	
i) 200 mm Dia Housing Pipe	:- 54.00 Meter
ii) 150 mm Dia M. S. Slotted pipe	:-18.00 Meter
iii) 150 mm Dia M. S. Plain pipe	:-166.0 Meter
iv) 200 x 150 mm Dia M S Reducer	:- 0.20 Meter
Total	:- 238.2 Meter
AGI	:- 00.50 Meter
BGL	:- 237.70 Meter
12. 90mm dia uPVC	:- 165.5x 2 = 331.0 Meter
13. Date of Lowering	:-02/12/2023

Recommended & Prepared by

Verified by

Recommended by

Approved by

M/S. NCC Ltd.

M/S. Ceinsys Tech Ltd.

J.E.
Division Office (E/M)
UP Jal Nigam (R)
Lucknow

A.E.
Division Office (E/M)
UP Jal Nigam (R)
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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHOZPUR, BLOCK- NAKAHA, DISTT- LAKHIMPUR KHIRI UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 280 mtrs. depth. and Logged depth 250 mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 27.Nov.2023.

Logging Parameters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 21.36 Ohms.

Drilling Water Resistivity = 22.41 Ohms.

Approx Water Level = 3 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 11	6	Clay kankar	
3.	11 - 18	7	Fine sand	
4.	18 - 23	5	Clay kankar	
5.	23 - 31	8	Fine to Medium sand	Good
6.	31 - 45	14	Clay kankar	
7.	45 - 63*	18	Medium sand	Good
8.	63 - 70	7	Clay kankar	
9.	70 - 81*	11	Medium sand	Good
10.	81 - 89	8	Clay kankar	
11.	89 - 94*	5	Medium sand & kankar	Good
12.	94 - 110	16	Clay kankar	
13.	110 - 161*	51	Medium sand & kankar	Good
14.	161 - 192	31	Clay kankar	
15.	192 - 212*	10	Medium sand	Good
16.	212 - 219	7	Clay kankar	
17.	219 - 232	13	Medium sand	Good
18.	232 - 250	18	Clay kankar	

Ground Water Survey Consultancy

