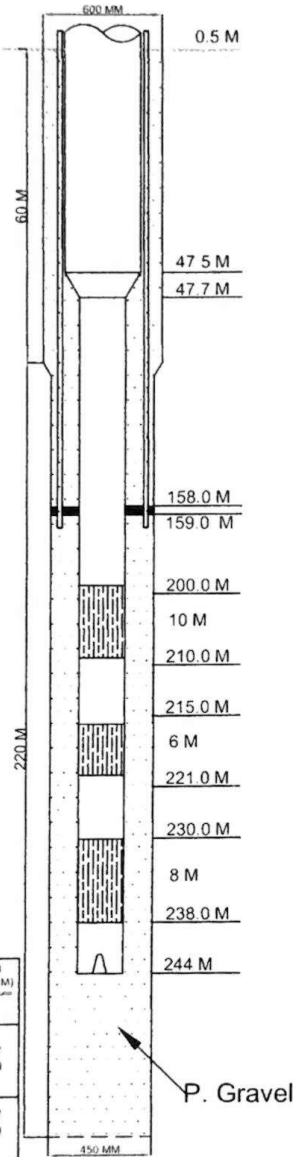


**COMPLETION PLAN OF TUBEWELL**

**Name of work** :- Construction of T. W. of G.P. Amkotwa, 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** :- 803/ED/Phase-2/2023-24/XVIII, Dt. 08.05.2023  
**Lowered Assembly Chart of T. W of Amkotwa G.P W/S Scheme District :- Lakhimpur Kheri.**

**Strata**

0-5 M, Surface Soil
5-10 M, Clay Kankar
10-20 M, Medium Sand
20-24M, Clay Kankar
24-33 M, Medium Sand
33-47 M, Clay Kankar
47-80 M, Medium Sand
80-90M, Clay Kankar
90-96 M, Medium Sand
96-105 M, Clay Kankar
105-110 M, Medium Sand
110-124 M, Clay Kankar
124-138 M, Medium Sand
138-141 M, Clay Kankar
141-154M, Medium Sand
154-160 M, Clay Kankar
160-190 M, Medium Sand
190-200 M, Clay Kankar
200-210 M, Medium Sand
210-214 M, Clay Kankar
214-221M, Fine to Med. Sand
221-230 M, Clay Kankar
230-238 M, Medium Sand
238-252 M, Medium Sand



ABSTRACT	
1	Type of Rig Machine :- DC/RC
2	Static Water level :-
3	Required Discharge :- 800 LPM
4	Bore Size (MM) :- 600x450
5	Assembly Size (MM) :- 300 x 150
6	Drilling Starting Date :- 29.10.2023
7	Drilling Completion Date :- 02.11.2023
8	Total Depth Of Drilling :- 280 M
9	Logging Date :- 03.11.2023
10	Logging Depth :- 260 M

Logging Report			
Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	47-80	33	Fine to Medium Sand (Good All)
2	90-96	06	
3	105-110	05	
4	124-138	14	
5	141-154	13	
6	160-190	30	
7	200-210	10	
8	214-221	07	
9	230-238	08	

Sr No	Description	Zone-1 (249-290 M) Acceptable Limit Per result	Zone-2 (201-214 M) Acceptable Limit Per result	Zone-3 (170-180 M) Acceptable Limit Per result	Zone-4 (160-164 M) Acceptable Limit Per result
1	Fluoride (as F <sup>-</sup> )	1.00 / 0.452	1.00 / 0.491	1.00 / 0.392	1.00 / 0.529
2	Iron (As Fe <sup>+</sup> )	1.00 / 0.640	1.00 / 0.980	1.00 / 0.560	1.00 / 1.240
3	Total Arsenic (As As)	0.01 / 0.008	0.01 / 0.009	0.01 / 0.012	0.01 / 0.014

11. Details of Lowered Assembly	
i) 300 mm Dia Housing Pipe :- 48.00 Meter	
ii) 150 mm Dia M. S. Slotted pipe :- 24.00 Meter	
iii) 150 mm Dia M. S. Plain pipe :- 172.3 Meter	
iv) 300 x 150 mm Dia M S Reducer :- 0.20 Meter	
Total :- 244.5 Meter	
AGI :- 00.50 Meter	
BGL :- 244.00 Meter	
12. 90mm dia uPVC :- 160.5x2=321 Meter	
13. Date of Lowering :- 11.11.2023	

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)  
Lucknow

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

# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

### Introduction :

A Deep bore hole was drilled 275 mtrs. depth. and Logged depth 252 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 03.Nov.2023.

Logging Para meters - 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 = 20.53 Ohms.

Drilling Water Resistivity = 21.88 Ohms.

Approx Water Level = 2 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 20	10	Medium sand	
4.	20 - 24	4	Clay kankar	
5.	24 - 33	9	Medium sand	Good
6.	33 - 47	14	Clay kankar	
7.	47 - 80*	33	Medium sand	Good
8.	80 - 90	10	Clay kankar	
9.	90 - 96*	6	Medium sand	Good
10.	96 - 105	9	Clay kankar	
11.	105 - 110*	5	Medium sand	Good
12.	110 - 124	14	Clay kankar	
13.	124 - 138*	14	Medium sand	Good
14.	138 - 141	3	Clay kankar	
15.	141 - 154*	13	Medium sand	Good
16.	154 - 160	6	Clay kankar	
17.	160 - 190*	30	Medium sand & kankar	Good
18.	190 - 200	10	Clay kankar	
19.	200 - 210*	10	Medium sand	Good
20.	210 - 214	4	Clay kankar	
21.	214 - 221*	7	Fine to Med sand & kan	Good
22.	221 - 230	9	Clay kankar	
23.	230 - 238*	8	Medium sand	Good
24.	238 - 252	14	Clay kankar	

Ground Water Survey Consultancy

