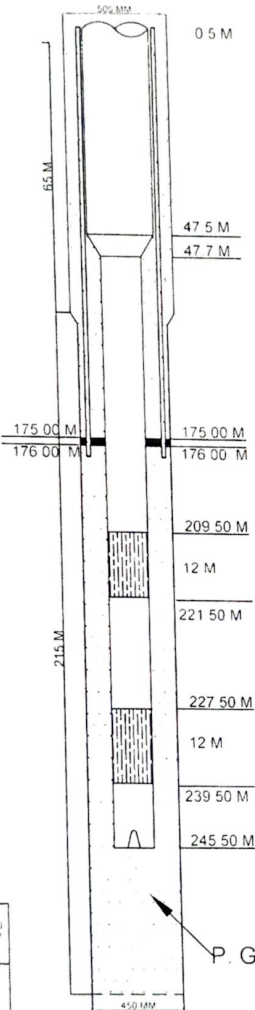


## COMPLETION PLAN OF TUBEWELL

**Name of work** :- Construction of T. W. of G.P. Mahola 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 G.P. of Mahola W/S Scheme District** :- Lakhimpur Kheri.

### Strata

0-5 M. Surface soil
5-13 M. Clay kankar
13-30 M. Med Sand
30-40 M. Clay kankar
40-46 M. Fine Sand
46-52 M. Clay Kankar
52-60 M. Med Sand
60-67 M. Clay kankar
67-90 M. Fine to Med Sand
90-94 M. Clay Kankar
94-100 M. Med Sand
100-115 M. Clay Kankar
115-138 M. Med Sand, Kankar
138-142 M. Clay Kankar
142-174 M. Med Sand
174-186 M. Clay Kankar
186-204 M. Med Sand Kankar
204-254 M. Clay Kankar



ABSTRACT	
1	Type of Rig Machine - DC/RC
2	Static Water level -
3	Required Discharge - 590 LPM
4	Bore Size (MM) - 500x450
5	Assembly Size (MM) - 200 x 150
6	Drilling Starting Date - 01 12 2023
7	Drilling Completion Date - 05 12 2023
8	Total Depth Of Drilling - 280 M
9	Logging Date - 06 12 2023
10	Logging Depth - 254 M

Logging Report			
Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	52-60	08	Fine to Medium Sand (Good All)
2	67-90	23	
3	94-100	06	
4	115-138	23	
5	142-174	32	
6	186-240	54	

Sr No	Description	Zone 1 (186-240 M) Feasible (mg/l)	Zone 2 (142-174 M) Feasible (mg/l)	Zone 3 (115-138 M) Feasible (mg/l)
1	Fluoride (As F <sup>-</sup> )	1.00 / 0.550	1.00 / 0.598	1.00 / 0.648
2	Iron (As Fe <sup>+</sup> )	1.00 / 0.520	1.00 / 0.920	1.00 / 1.180
3	Total Arsenic (As As)	0.01 / 0.008	0.01 / 0.012	0.01 / 0.020

11. Details of Lowered Assembly	
i)	200 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 - 173.80 Meter
iv)	200 x 150 mm Dia M S Reducer - 0.20 Meter
Total - 246.00 Meter	
AGI - 00.50 Meter	
BGL - 245.50 Meter	
12	90mm dia uPVC - 177.5x2=355 Meter
13	Date of Lowering - 22 12 2023

Recommended & Prepared by

Verified by

Recommended by

Approved by

M/S NCC Ltd.

M/S Ceinsys Tech Ltd

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

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

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

# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

### Introduction :

A Deep bore hole was drilled 280 mtrs. depth. and Logged depth 254 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 06.Dec.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 = 22.73 Ohms.

Drilling Water Resistivity = 23.40 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 - 13	8	Clay kankar	
3.	13 - 30	17	Medium sand	Good
4.	30 - 40	10	Clay kankar	
5.	40 - 46	6	Fine sand	Good
6.	46 - 52	6	Clay kankar	
7.	52 - 60*	8	Medium sand	Good
8.	60 - 67	7	Clay kankar	
9.	67 - 90*	23	Fine to Medium sand & kan	Good
10.	90 - 94	4	Clay kankar	
11.	94 - 100*	6	Medium sand	Good
12.	100 - 115	15	Clay kankar	
13.	115 - 138*	23	Medium sand & kankar	Good
14.	138 - 142	4	Clay kankar	
15.	142 - 174*	32	Medium sand	Good
16.	174 - 186	12	Clay kankar	
17.	186 - 240*	54	Medium sand & kankar	Good
18.	240 - 254	14	Clay kankar	

Ground Water Survey Consultancy

