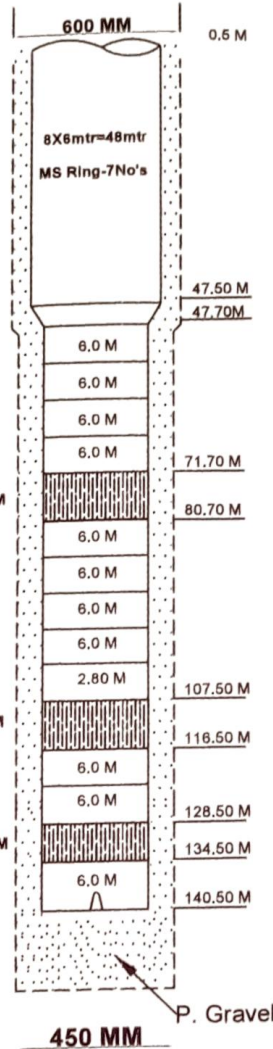


## COMPLETION PLAN OF TUBEWELL

**Name of work** :- Construction of T. W. of G.P. Mandariya, Block- Mitauli, District, LakhimpurKheri.  
**Name of Program** :- J.J.M-2  
**Name of client** :- S.W.S.M. & U.P. AL NIGAM ( R )  
**Name of Contractor** :- M/S NCC Limited  
**Name of TPI** :- Ceinsys Tech Limited  
**Cover Agreement** :- /ED/Phase-3/2022-23/ , Dated -03.03. 2022  
**Lowered Assembly Chart of T. W of G.P. Mandariya, Block- Mitauli,**

### Strata

0-5 mtr Surface soil
5-15 mtr Clay
4 mtr Medium Sand
24-30 mtr Clay Kankar
30-36 mtr Medium Sand
36-46 mtr Clay kankar
46-66 mtr Medium Sand & Kankar
66-70 mtr Clay Kankar
70-82 mtr Medium Sand
82-91 mtr Clay Kankar
91-96 mt Fine Sand
96-105 mtr Clay kankar
105-117 mtr Medium Sand
117- 127 mtr Clay Kankar
127-139 mtr Medium Sand
139- 143 mtr Caving Clay
143-150 mtr Fine to Medium Sand
150- 162 mtr Clay Kankar
162- 143 mtr Sandy Clay



ABSTRACT	
1	Type of Rig Machine :- DC Cum RC
2	Required Discharge :- 850 LPM
3	Bore Size (MM) :- 800x450
4	Assembly Size (MM) :- 300 x 150
5	Drilling Starting Date :- 8.03.2023
6	Drilling Completion Date :- 14.03.2023
7	Total Depth Of Drilling :- 165 M
8	Logging Date :- 15.03.2023
9	Logging Depth :- 165 M

Logging Report By Ground Water Investigation Center				
SI.No	Depth (mbgl)	Thickness (m)	Lithology	Remarks
1	46-66	20	M.S. & Kankar	Good
2	70-82	12	Medium Sand	Good
3	105-117	12	Medium Sand	Good
4	127-139	12	Medium Sand	Good
5	143-150	7	F to M Sand	Good

(G.Shukla)  
 Verified by Asst. Hydrologist  
 Circle Office(E&M) U.P at  
 Nigam (Rural)

(A.K Singh)  
 Verified by Geophysicist  
 GIC Lucknow.

11. Details of Lowered Assembly	
i)	300 mm Dia Housing Pipe :- 48.0 Meter
ii)	150 mm Dia M. S. Slotted pipe :- 24.00Meter
iii)	150 mm Dia M. S. Plain pipe :- 68.80Meter
iv)	300 x 150 mm Dia M S Reducer :- 0.20 Meter
Total :- 141.00 Meter	
AGI :- 00.50 Meter	
BGL :- 140.50 Meter	
12. Date of Lowering	18/03/2023

Recommended & Prepared by

M/s NCC Ltd

Verified by

M/s Ceinsys Tech Ltd

Recommended by

A.E  
 13th Division UP at  
 Nigam (R) Lucknow

Approved by

E.E  
 13th Division U.P at Nigam  
 (R) Lucknow

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MANDARIYA, BLOCK- MITHAULI, DISTT- LAKHIMPUR KHIRI  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~165 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 15.Mar.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 = 26.82 ~~Ohms.~~

Drilling Water Resistivity = 26.08 ~~Ohms.~~

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Clay	
3.	15 - 24	9	Fine to medium sand	Good
4.	24 - 30	6	Clay kankar	
5.	30 - 36	6	Medium sand	Good
6.	36 - 46	10	Clay kankar	
7.	46 - 66*	20	Medium sand & kankar	Good
8.	66 - 70	4	Clay kankar	
9.	70 - 82*	12	Medium sand	Good
10.	82 - 91	9	Clay kankar	
11.	91 - 96	5	Fine sand	Good
12.	96 - 105	9	Clay kankar	
13.	105 - 117*	12	Medium sand	Good
14.	117 - 127	10	Clay kankar	
15.	127 - 139*	12	Medium Sand	Good
16.	139 - 143	4	Clay kankar	
17.	143 - 150*	7	Fine to medium sand	Good
18.	150 - 162	12	Clay kankar	
19.	162 - 165	3	Sandy Clay	

Sr No 15 - kankar  
intermixed.

GSh  
16/03/23



- Logging performed as per SWSM guidelines  
- Groundwater quality interpreted by firm as per their logger calibration