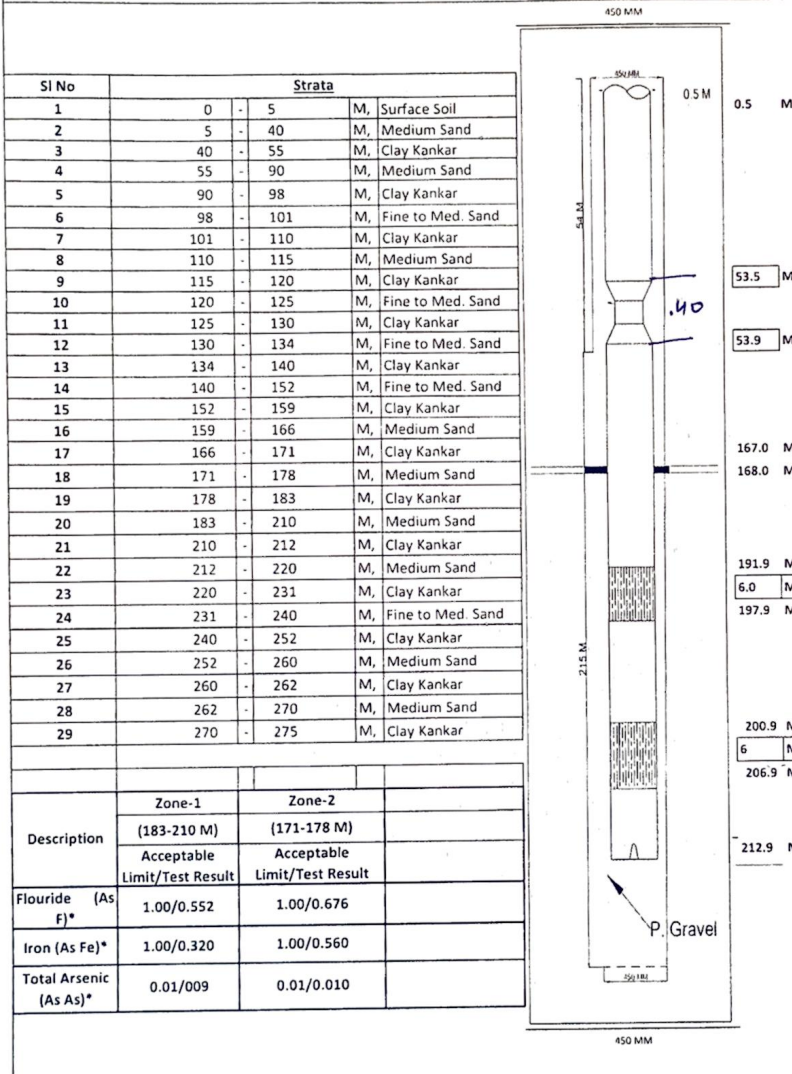


**Completion Plan Of Tubewell**

Name Of Work :- Construction of T. W. of G.P. Sohariya, Block- Ramiabehar, 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 Dt. 12.03.2021  
 Cover Agreement :- 816/ED/Phase-2/2023-24/XIX, Dt. 11.05.2023

Lowered Assembly Chart of T. W of Sohariya G.P W/S Scheme District :- Lakhimpur Kheri.



ABSTRACT			
1	Type of Rig Machine	:-	DC/RC
2	Static Water level	:-	
3	Required Discharge	:-	100 LPM
4	Bore Size (MM)	:-	450 X 450
5	Assembly Size (MM)	:-	150 X 150
6	Drilling Starting Date	:-	23-01-2024
7	Drilling Completion Date	:-	27-01-2024
8	Total Depth Of Drilling	:-	280 M
9	Logging Date	:-	28-01-2024
10	Logging Depth	:-	275 M

Sl No	Strata			
1	0	-	5	M, Surface Soil
2	5	-	40	M, Medium Sand
3	40	-	55	M, Clay Kankar
4	55	-	90	M, Medium Sand
5	90	-	98	M, Clay Kankar
6	98	-	101	M, Fine to Med. Sand
7	101	-	110	M, Clay Kankar
8	110	-	115	M, Medium Sand
9	115	-	120	M, Clay Kankar
10	120	-	125	M, Fine to Med. Sand
11	125	-	130	M, Clay Kankar
12	130	-	134	M, Fine to Med. Sand
13	134	-	140	M, Clay Kankar
14	140	-	152	M, Fine to Med. Sand
15	152	-	159	M, Clay Kankar
16	159	-	166	M, Medium Sand
17	166	-	171	M, Clay Kankar
18	171	-	178	M, Medium Sand
19	178	-	183	M, Clay Kankar
20	183	-	210	M, Medium Sand
21	210	-	212	M, Clay Kankar
22	212	-	220	M, Medium Sand
23	220	-	231	M, Clay Kankar
24	231	-	240	M, Fine to Med. Sand
25	240	-	252	M, Clay Kankar
26	252	-	260	M, Medium Sand
27	260	-	262	M, Clay Kankar
28	262	-	270	M, Medium Sand
29	270	-	275	M, Clay Kankar

Logging Report				
Sl No	Depth (mbgl)	Thickness (m)	Remarks	
1	55 - 90	35	All Good	
2	110 - 115	5		
3	120 - 125	5		
4	130 - 134	4		
5	140 - 152	12		
6	159 - 166	7		
7	171 - 178	7		
8	183 - 210	27		
9	212 - 220	8		
10	231 - 240	9		

Description	Zone-1	Zone-2
	(183-210 M) Acceptable Limit/Test Result	(171-178 M) Acceptable Limit/Test Result
Flouride (As F)*	1.00/0.552	1.00/0.676
Iron (As Fe)*	1.00/0.320	1.00/0.560
Total Arsenic (As As)*	0.01/009	0.01/0.010

53.5 M	
53.9 M	
167.0 M	
168.0 M	
191.9 M	
6.0 M	
197.9 M	
200.9 M	
6 M	
206.9 M	
212.9 M	
11 Details of Lowered Assembly	
ij	150 MM Dia Housing Pipe :- 54.0 M
ii	150 MM Dia M S Slotted pipe :- 12.0 M
iii	150 MM Dia M S Plain pipe :- 147.0 M
iv	150 X 150 MM Dia M S Reducer :- 0.4 M
	Total :- 213.40 Meter
	AGL :- 0.50 Meter
	BGL :- 212.90 Meter
12	90 MM Dia UPVC :- 169.50 339.00 Meter
13	Date of Lowering :- 10.02.2024

Recommended & Prepared by: M/S. NCC Ltd.  
 Verified by: M/S. Ceinsys Tech Ltd.  
 Recommended by: J.E. 13th Division UP Jal Nigam (R) Lucknow  
 Approved by: E.E. 13th Division U.P. Jal Nigam (R) Lucknow

**VIKAS KR. YADAV**  
 JUNIOR ENGINEER  
 DIVISIONAL OFFICE (E&M)  
 U.P. JAL NIGAM (R)  
 LUCKNOW

# REPORT ON GEOPHYSICAL WELL LOGGING

AT

## GRAM PANCHAYAT- SOHARIYA ZONE -2, BLOCK- RAMIYABEHAR, DISTT-LAKHIMPUR KHIRI UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 280 mtrs. depth. and Logged depth 275 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 28.Jan.2024.

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:-

Location = Sohariya Zone -2

Mud Resistivity = 45.93 Ohms.

Latitude = 28.12301°

Drilling Water Resistivity = 62.70 Ohms.

Longitude = 80.9042916666667°

Approx Water Level = 2 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 40	35	Medium sand	Good
3.	40 - 55	15	Clay kankar	
4.	55 - 90*	35	Medium sand	Good
5.	90 - 98	8	Clay kankar	
6.	98 - 101	3	Fine to Medium sand	Good
7.	101 - 110	9	Clay kankar	
8.	110 - 115*	5	Medium sand	Good
9.	115 - 120	5	Clay kankar	
10.	120 - 125*	5	Fine to Medium sand	Good
11.	125 - 130	5	Clay kankar	
12.	130 - 134*	4	Fine to Medium sand	Good
13.	134 - 140	6	Clay kankar	
14.	140 - 152*	12	Fine to Medium sand & kan	Good
15.	152 - 159	7	Clay kankar	
16.	159 - 166*	7	Medium sand	Good
17.	166 - 171	5	Clay kankar	
18.	171 - 178*	7	Medium sand	Good
19.	178 - 183	5	Clay kankar	
20.	183 - 210*	27	Medium sand	Good
21.	210 - 212	2	Clay kankar	
22.	212 - 220*	8	Medium sand	Good
23.	220 - 231	11	Clay kankar	
24.	231 - 240*	9	Fine to Medium sand	Good
25.	240 - 252	12	Clay kankar	
26.	252 - 260	8	Fine sand	Good
27.	260 - 262	2	Clay kankar	
28.	262 - 270	8	Fine sand & kankar	Good
29.	270 - 275	5	Clay kankar	

Ground Water Survey Consultancy

