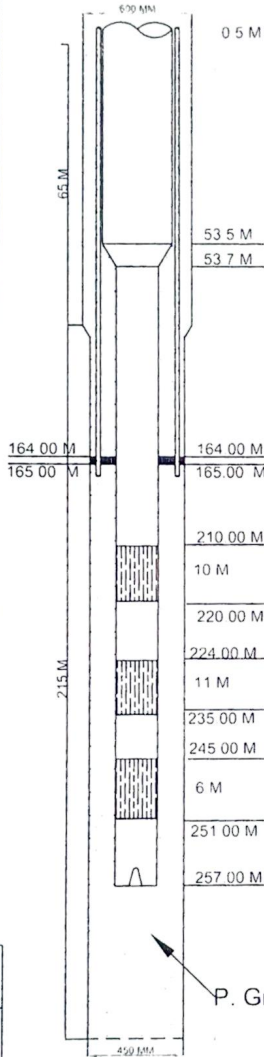


Name of work :- Construction of T. W. of G.P. Khairahna Block-Nighasan, District, Lakhimpur Kheri.  
 Name of Program :- J. J. M-2  
 Name of client :- S.W.S.M. & U.P. JAL NIGAM ( R )  
 Name of Contractor :- M/S NCC Limited  
 Name of TPI :- Ceinsys Tech Limited  
 Contract Agreement :- 64/ED/2020-21 Dated on 12.03.2021  
 Cover Agreement :- 816/ED/Phase-2/2023-24/XIX, Dt. 11.05.2023  
 Lowered Assembly Chart of T. W of G.P. of Khairahna W/S Scheme District :- Lakhimpur Kheri.

**Strata**

0-5 M. Surface Clay
5-10 M. Clay Kankar
10-24 M. Fin3 to Med Sand
24-31 M. Clay Kankar
31-57 M. Medium Sand
57-61 M. Clay Kankar
61-86 M. Medium Sand
86-92 M. Clay Kankar
92-100 M. Medium Sand
100-104 M. Clay Kankar
104-110 M. Medium Sand
110-116 M. Clay Kankar
116-120 M. Fine to Med Sand
120-130 M. Clay Kankar
130-140 M. Medium Sand
140-144 M. Clay Kankar
144-163 M. Medium Sand
163-170 M. Clay Kankar
170-175 M. Medium Sand
175-193 M. Clay Kankar
193-205 M. Medium Sand
205-210 M. Clay Kankar
210-220 M. Medium Sand
220-224 M. Clay Kankar
224-235 M. Medium Sand
235-245 M. Clay Kankar
245-251 M. Medium Sand
251-265 M. Clay Kankar



ABSTRACT	
1	Type of Rig Machine :- DC/RC
2	Static Water level -
3	Required Discharge :- 850 LPM
4	Bore Size (MM) - 600x 450
5	Assembly Size (MM) - 300 x 150
6	Drilling Starting Date - 18 01 2024
7	Drilling Completion Date - 22 01 2024
8	Total Depth Of Drilling :- 280 M
9	Logging Date - 23 01 2024
10	Logging Depth :- 265 M

Logging Report			
Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	61-86	25	Fine to Medium Sand (Good All)
2	92-100	08	
3	104-110	06	
4	130-140	10	
5	144-163	19	
6	170-175	05	
7	193-205	12	
8	210-220	10	
9	224-235	11	
10	245-251	06	

Sr No	Description	Zone-1 (224-234 M)	Zone-2 (210-220 M)	Zone-3 (193-205 M)
1	Fluoride (as F <sup>-</sup> )	1.00 / 0.823	1.00 / 0.872	1.00 / 1.092
2	Iron (As Fe <sup>+</sup> )	1.00 / 0.750	1.00 / 0.820	1.00 / 1.230
3	Total Arsenic (As As)	0.01 / 0.008	0.01 / 0.010	0.01 / 0.013

11. Details of Lowered Assembly	
i)	200 mm Dia Housing Pipe - 54.00 Meter
ii)	150 mm Dia M. S. Slotted pipe - 27.00 Meter
iii)	150 mm Dia M. S. Plain pipe - 176.30 Meter
iv)	200 x 150 mm Dia M S Reducer - 0.20 Meter
	Total - 257.50 Meter
	AGI - 00.50 Meter
	BGL - 257.00 Meter
12	90mm dia uPVC - 166.5x2=333 Meter
13.	Date of Lowering - 16.02 2024

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

**REPORT ON GEOPHYSICAL WELL LOGGING**  
**AT**  
**GRAM PANCHAYAT- KHAIRAHNA, BLOCK- NIGHASAN, DISTT-LAKHIMPUR KHIRI**  
**UNDER**  
**JAL JIVAN MISSION**

**Introduction :**

A Deep bore hole was drilled 280 mtrs. depth. and Logged depth 265 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 23.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:-

Mud Resistivity = 13.23 Ohms.

Drilling Water Resistivity = 20.61 Ohms.

Approx Water Level = 9 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 - 24	14	Fine to medium sand & kankar	Good
4.	24 - 31	7	Clay kankar	
5.	31 - 57	26	Medium sand	Good
6.	57 - 61	4	Clay kankar	
7.	61 - 86*	25	Medium sand	Good
8.	86 - 92	6	Clay kankar	
9.	92 - 100*	8	Medium sand	Good
10.	100 - 104	4	Clay kankar	
11.	104 - 110*	6	Medium sand	Good
12.	110 - 116	6	Clay kankar	
13.	116 - 120	4	Fine to Medium sand	Good
14.	120 - 130	10	Clay kankar	
15.	130 - 140*	10	Medium sand	Good
16.	140 - 144	4	Clay kankar	
17.	144 - 163*	19	Medium sand	Good
18.	163 - 170	7	Clay kankar	
19.	170 - 175*	5	Medium sand	Good
20.	175 - 193	18	Clay kankar	
21.	193 - 205*	12	Medium sand & kankar	Good
22.	205 - 210	5	Clay kankar	
23.	210 - 220*	10	Medium sand	Good
24.	220 - 224	4	Clay kankar	
25.	224 - 235*	11	Medium sand & kankar	Good
26.	235 - 245	10	Clay kankar	
27.	245 - 251*	6	Medium sand	Good
28.	251 - 265	14	Clay kankar	

Ground Water Survey Consultancy

Agra

