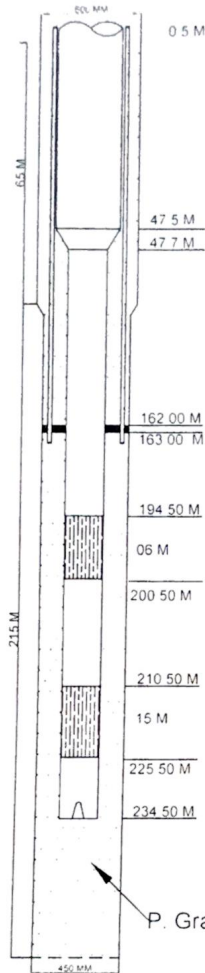


## COMPLETION PLAN OF TUBEWELL

**Name of work** :- Construction of T. W. of G.P. Bela Kala Zone-2 Block- Palia, District, Lakhimpur Khari.  
**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** :- 200/ED/2021-22/III Dt. 30 November, 2021  
**Lowered Assembly Chart of T. W of G.P. of Bela Kala Zone-2 W/S Scheme District :- Lakhimpur Khari.**

### Strata

0-5 M Surface soil
5-20 M Clay Kankar
20-27 M Med Sand
27-32 M Clay Kankar
32-40 M Medium Sand
40-52 M Clay Kankar
52-60 M Medium Sand
60-68 M Clay Kankar
68-80 M Med Sand
80-82 M Clay Kankar
82-85 M Fine Sand
85-90 M Clay Kankar
90-110 M Medium Sand
110-114 M Clay Kankar
114-120 M Fine to Med Sand
120-126 M Clay Kankar
126-140 M Med Sand
140-145 M Clay Kankar
145-150 M Fine to Med Sand
150-153 M Clay Kankar
153-160 M Med Sand
160-170 M Clay Kankar
170-176 M Medium Sand
176-181 M Clay Kankar
181-188 M Medium Sand
188-194 M Clay Kankar
194-201 M Med Sand
201-210 M Clay Kankar
210-226 M Med Sand
226-260 M Clay Kankar
260-277M. Med Sand Kankar



### ABSTRACT

1	Type of Rig Machine	- DC/RC
2	Static Water level	-
3	Required Discharge	- 650 LPM
4	Bore Size (MM)	- 600x450
5	Assembly Size (MM)	- 300 x 150
6	Drilling Starting Date	- 14 12 2023
7	Drilling Completion Date	- 18 12 2023
8	Total Depth Of Drilling	- 285 M
9	Logging Date	- 19 12 2023
10	Logging Depth	- 277 M

### Logging Report

Sl.No	Depth (mbgl)	Thickness (m)	Remarks
1	68-80	12	Fine to Medium Sand (Good All)
2	90-110	20	
3	114-120	06	
4	145-150	05	
5	170-176	06	
6	181-188	07	
7	194-201	07	
8	210-266	16	
9	260-277	17	

Sr No	Description	Zone 1 (210-226 M)	Zone 2 (194-201 M)	Zone 3 (181-188 M)
1	Fluoride (As F)	1.00 / 0.495	1.00 / 0.532	1.00 / 0.587
2	Iron (As Fe)	1.00 / 0.720	1.00 / 0.785	1.00 / 1.080
3	Total Arsenic (As As)	0.01 / 0.004	0.01 / 0.007	0.01 / 0.010

### 11. Details of Lowered Assembly

i) 300 mm Dia Housing Pipe	- 48.00 Meter
ii) 150 mm Dia M S Slotted pipe	- 21.00 Meter
iii) 150 mm Dia M S Plain pipe	- 165.80 Meter
iv) 300 x 150 mm Dia M S Reducer	- 0.20 Meter
Total	- 235.00 Meter
AGI	- 00.50 Meter
BGL	- 234.50 Meter
12 90mm dia uPVC	- 164.5x2=329 Meter
13 Date of Lowering	- 04 01 2024

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- BELA KALA ZONE -2, BLOCK- PALIA, DISTT- LAKHIMPUR KHIRI**  
**UNDER**  
**JAL JIVAN MISSION**

**Introduction :**

A Deep bore hole was drilled 285 mtrs. depth. and Logged depth 277 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 19.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 = 22.69 Ohms.

Drilling Water Resistivity = 23.94 Ohms.

Approx Water Level = 3 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Clay kankar	
3.	20 - 27	7	Medium sand	Good
4.	27 - 32	5	Clay kankar	
5.	32 - 40	8	Medium sand	Good
6.	40 - 52	12	Clay kankar	
7.	52 - 60*	8	Medium sand	Good
8.	60 - 68	8	Clay kankar	
9.	68 - 80*	12	Medium sand	Good
10.	80 - 82	2	Clay kankar	
11.	82 - 85	3	Fine sand	Good
12.	85 - 90	5	Clay kankar	
13.	90 - 110*	20	Medium sand	Good
14.	110 - 114	4	Clay kankar	
15.	114 - 120*	6	Fine to Medium sand	Good
16.	120 - 126	6	Clay kankar	
17.	126 - 140*	14	Medium sand	Good
18.	140 - 145	5	Clay kankar	
19.	145 - 150*	5	Fine to Medium sand	Good
20.	150 - 153	3	Clay kankar	
21.	153 - 160*	7	Medium sand	Good
22.	160 - 170	10	Clay kankar	
23.	170 - 176*	6	Medium sand	Good
24.	176 - 181	5	Clay kankar	
25.	181 - 188*	7	Medium sand	Good
26.	188 - 194	6	Clay kankar	
27.	194 - 201*	7	Medium sand	Good
28.	201 - 210	9	Clay kankar	
29.	210 - 226*	16	Medium sand	Good
30.	226 - 260	34	Clay kankar	
31.	260 - 277*	17	Medium sand & kankar	Good

Ground Water Survey Consultancy  
Agra

