

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MULTANPUR GRANT ZONE 2, BLOCK- BEHJAM,
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 12.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 = 18.55 Ohms.

Drilling Water Resistivity = 19.33 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 - 15	10	Clay kankar	
3.	15 - 18	3	Fine sand	
4.	18 - 28	10	Clay kankar	
5.	28 - 45	17	Medium sand	Good
6.	45 - 50	5	Clay kankar	
7.	50 - 60*	10	Medium sand	Good
8.	60 - 65	5	Clay kankar	
9.	65 - 78*	13	Medium sand	Good
10.	78 - 85	7	Clay kankar	
11.	85 - 92*	7	Medium sand	Good
12.	92 - 95	3	Clay kankar	
13.	95 - 110*	15	Medium sand	Good
14.	110 - 117	7	Clay kankar	
15.	117 - 131*	14	Medium sand	Good
16.	131 - 140	9	Clay kankar	
17.	140 - 145*	5	Fine to medium sand	Good
18.	145 - 156	11	Clay kankar	
19.	156 - 165*	9	Medium sand	Good

Ground Water Survey Consultancy



COMPLETION PLAN OF TUBEWELL

NAME OF WORK :- Construction of T.W- of G.P - Multanpur Grant zone-2, Block - Mitauli ,Distt. Lakhimpur

NAME OF PROGRAMME :- JJM-2,

NAME OF CLIENT :- SW.S.M. & U.P.JAL NIGAM

NAME OF CONTRACTOR :- M/S NCC Limited

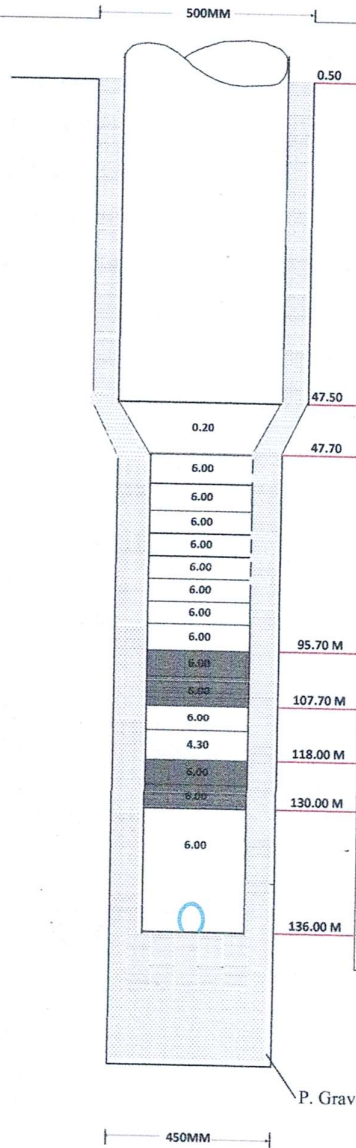
NAME OF TPI :- Ceinsys Tech Limited

CONTRACT AGREEMENT :- 64/ED/Phase-2/2020-21 Dated on 12.03.2021

COVER AGREEMENT :- 464/ED/Phase 2/2022-23/XI, Dt. 27.02.2023

Lowered Assembly Chart of T.W. of G.P- Multanpur Grant zone-2, Block - Mitauli ,Distt. Lakhimpur

Strata	
0-5	Surface soli
5-15	Clay kankar
15-18	Fine Sand
18-28	Clay kankar
28-45	Medium Sand
45-50	Clay kankar
50-60	Medium Sand
60-65	Clay kankar
65-78	Medium Sand
78-85	Clay kankar
85-92	Medium Sand
92-95	Clay kankar
95-110	Medium Sand
110-117	Clay kankar
117-131	Medium Sand
131-140	Clay kankar
140-145	Fine to Medium Sand
145-156	Clay kankar
156-165	Medium Sand



ABSTRACT		
1-	Type of Rig Machine	R.C. CUM D.C.
2-	Required Discharge	530 LPM
3-	Bore Size (MM)	500x450
4-	Assembly size (MM)	200x150
5-	Drilling Starting Date	03-12-2023
6-	Drilling Completion Date	11-12-2023
7-	Total Depth of Drilling	165 Mtr
8-	Logging Date	12-12-2023
9-	Logging Depth	165.00 Mtr

Logging Report By Water Investigation Ceter				
S. No.	Depth Range (mbgl)	Thickness (M.)	Lithology	Remarks
1	50-60	10	Medium Sand	Good
2	65-78	13	Medium Sand	Good
3	85-92	7	Medium Sand	Good
4	95-110	15	Medium Sand	Good
5	117-131	14	Medium Sand	Good
6	140-145	5	Fine to M.S.	Good
7	145-165	9	Medium Sand	Good

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

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

Details of Lowered Assembly		
11		
(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	64.30 Meter
(iv)	200 X 150 mm Dia M.S Reducer	0.20 Meter
Total		136.50
AGL		0.50
BGL		136.00
Date Of Lowering		14-12-2023

Recommended & Prepared by

Verified & Checked By

Recommended By

Approved By

M/s NCC LTD.

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