

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- PIPRACHIT, 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 18.Jun.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 = 21.87 Ohms.

Drilling Water Resistivity = 23.60 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 - 15	10	Clay kankar	
3.	15 - 20	5	Fine sand	
4.	20 - 30	10	Clay kankar	
5.	30 - 40	10	Medium sand	Good
6.	40 - 48	8	Clay kankar	
7.	48 - 60*	12	Medium sand	Good
8.	60 - 68	8	Clay kankar	
9.	68 - 85*	17	Medium sand	Good
10.	85 - 94	9	Clay kankar	
11.	94 - 125*	31	Medium sand	Good
12.	125 - 143	18	Clay kankar	
13.	143 - 147*	4	Fine to Medium sand	Good
14.	147 - 155	8	Clay kankar	
15.	155 - 162*	7	Medium sand	Good
16.	162 - 165	3	Clay kankar	

Ground Water Survey Consultancy

Agra

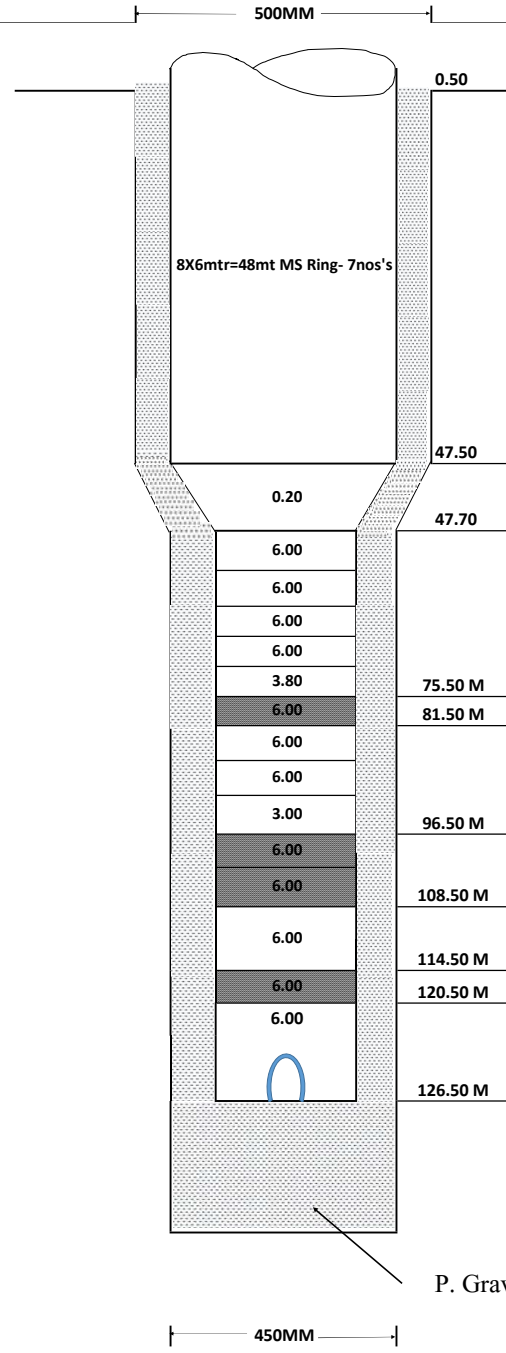


COMPLETION PLAN OF TUBEWELL

NAME OF WORK :- Construction of T.W- of G.P -Piprachhit Block- Mitauli, Distt. Lakhimpur,
NAME OF PROGRAMME :- JJM-3,
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 07.01.2022
COVER AGREEMENT :- 321/ED/Phase 2/2022-23/X Dt.

Lowered Assembly Chart of T.W. of G.P- Piprachhit Block- Mitauli, Distt. Lakhimpur,

Strata	
0-5	Surface Clay
5-15	Clay Kankar
15-20	Fine sand
20-30	Clay Kankar
30-40	Medium sand
40-48	Clay Kankar
48-60	Medium sand
60-68	Clay Kankar
68-85	Medium sand
85-94	Clay Kankar
94-125	Medium sand
125-143	Clay Kankar
143-147	Fine to Medium Sand
147-155	Clay Kankar
155-162	Medium sand
162-165	Clay Kankar



ABSTRACT		
1-	Type of Rig Machine	R.C. CUM D.C.
2-	Required Discharge	550LPM
3-	Bore Size (MM)	500x450
4-	Assembly size (MM)	200x150
5-	Drilling Starting Date	06-10-2023
6-	Drilling Completion Date	17/06/2023
7-	Total Depth of Drilling	165 Mtr
8-	Logging Date	18/06/2023
9-	Logging Depth	165.00 Mtr

Logging Report By Water Investigation Ceter				
S. No.	Depth Range (mbgl)	Thickness (M.)	Lithology	Remarks
1	48-60	12	Mediun Sand	Good
2	68-85	17	Mediun Sand	Good
3	94-125	31	Mediun Sand	Good
4	143-147	5	F. to M Sand	Good
5	155-162	7	Mediun 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	54.80 Meter
	(iv)	200 X 150 mm Dia M.S Reducer	0.20 Meter
		Total	127.00
		AGL	0.50
		BGL	126.50
		Date Of Lowering	20/06/2023

Recommended & Prepared by	Verified & Checked By	Recommended By	Approved By
M/s NCC LTD.	TPI M/s Ceinsys Tech Ltd	J.E. Divisional Office (E&M) U.P. Jal Nigam(Rural) Lucknow	A.E. Divisional Office (E&M) U.P. Jal Nigam(Rural) Lucknow
		E.E. Divisional Office (E&M) U.P. Jal Nigam(Rural) Lucknow	