

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- LAHORI NAGAR, BLOCK- LAKHIMPUR,
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 09 April 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 = 25.58 Ohms.
Drilling Water Resistivity = 27.70 Ohms.
Approx Water Level = 8 Mtr.

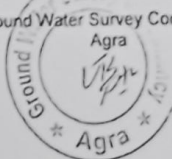
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 11	6	Fine sand	
3.	11 - 21	10	Clay kankar	
4.	21 - 40	19	Fine to Medium sand	Good
5.	40 - 61	21	Clay kankar	
6.	61 - 71*	10	Medium sand	Good
7.	71 - 75	4	Clay kankar	
8.	75 - 86*	26	Medium sand	Good
9.	86 - 106	20	Clay kankar	
10.	106 - 128*	22	Medium sand	Good
11.	128 - 132	4	Clay kankar	
12.	132 - 151*	19	Medium sand & kankar	Good
13.	151 - 155	4	Clay kankar	
14.	155 - 165*	10	Medium sand & kankar	Good

- All zones are intermixed with thin bands of kankar

G.Sh

11/04/23

Ground Water Survey Consultancy



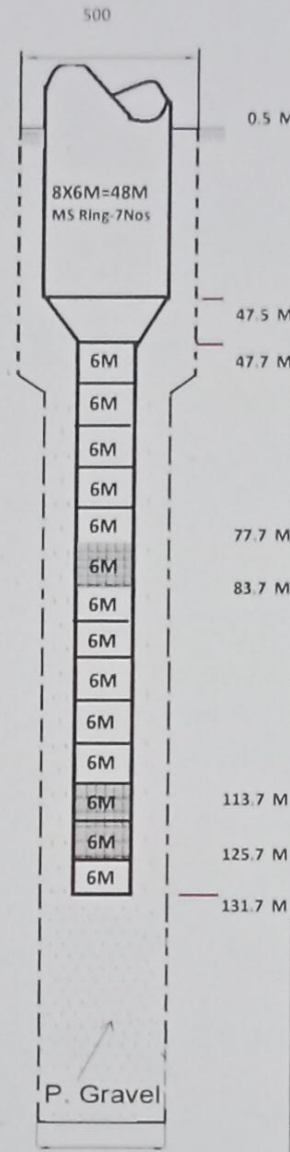
- Logging performed as per SWSM guidelines
- Groundwater quality interpreted by former bes their logger calibration.

Completion Plan Of Tubewell

Name Of Work ➤ Construction of T. W. of G.P. Lahauri Nagar, Block- Lakhimpur, District, Lakhimpur Kheri.
 Name Of Program ➤ J. J. M
 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 ➤ 12/ED/Phase-3/2021-22, date-07.01.2022
 Cover Agreement ➤ 829/ED/PHASE-3/2022-23/XXV, Dated 15.05.2023

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

Strata		
0	-	5 M, Surface Soil
5	-	11 M, Fine Sand
11	-	21 M, Clay Kankar
21	-	40 M, Fine to Medium Sand
40	-	61 M, Clay Kankar
61	-	71 M, Medium Sand
71	-	75 M, Clay Kankar
75	-	86 M, Medium Sand
86	-	106 M, Clay Kankar
106	-	128 M, Medium Sand
128	-	132 M, Clay Kankar
132	-	151 M, Medium Sand & Kankar
151	-	155 M, Clay Kankar
155	-	165 M, Medium Sand & Kankar



ABSTRACT		
1	Type of Rig Machine	DC/RC
2	Static Water level	
3	Required Discharge	390 LPM
4	Bore Size (MM)	500 X 450
5	Assembly Size (MM)	200 X 150
6	Drilling Starting Date	04-04-2023
7	Drilling Completion Date	08-04-2023
8	Total Depth Of Drilling	165 M
9	Logging Date	09-04-2023
10	Logging Depth	165 M

Logging Report			
Sl No	Depth (mbgl)	Thickness (m)	Remarks
1	0 - 5	5	(Good All)
2	5 - 11	6	
3	11 - 21	10	
4	21 - 40	19	
5	40 - 61	21	
6	61 - 71	10	
7	71 - 75	4	
8	75 - 86	11	
9	86 - 106	20	
10	106 - 128	22	
11	128 - 132	4	
12	132 - 151	19	
13	151 - 155	4	
14	155 - 165	10	

11 Details of Lowered Assembly		
i)	200	MM Dia Housing Pipe ➤ 48.0 M
ii)	150	MM Dia M S Slotted pipe ➤ 18 M
iii)	150	MM Dia M. S. Plain pipe ➤ 66.0 M
iv)	200 X 150	MM Dia M S Reducer 0.2 M
Total		➤ 132.20 Meter
AGL		➤ 0.50 Meter
BGL		➤ 131.70 Meter
12	Date of Lowering	➤ 10-04-2023



Verified by

M/S. Ceinsys Tech Ltd.

ASHOK KUMAR
 J.B. ENGINEER
 OFFICE (E&M)
 JAL NIGAM (R)
 LUCKNOW

Recommended by

Assistant Engineer
 Divisional Officer (E&M)
 P. Jal Nigam (R)
 Lucknow

Approved by

13th Division U.P Jal Nigam (R) Lucknow