

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- JAMUKA, BLOCK- PASGAWAN,
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 28 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 = 23.37 Ohms

Drilling Water Resistivity = 24.64 Ohms

Approx Water Level = 15 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Clay kankar	
3.	12 - 33	21	Medium sand	Good
4.	33 - 45	12	Clay kankar	
5.	45 - 57*	12	Medium sand	Good
6.	57 - 62	5	Clay kankar	
7.	62 - 67*	5	Medium sand	Good
8.	67 - 79	12	Clay kankar	
9.	79 - 99*	20	Medium sand	Good
10.	99 - 111	12	Clay kankar	
11.	111 - 130*	19	Medium sand	Good
12.	130 - 136	6	Clay kankar	
13.	136 - 151*	15	Medium sand	Good
14.	151 - 159	8	Clay kankar	
15.	159 - 165*	6	Medium sand	Good

G.S.
29/04/23

Ground Water Survey Consultancy



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

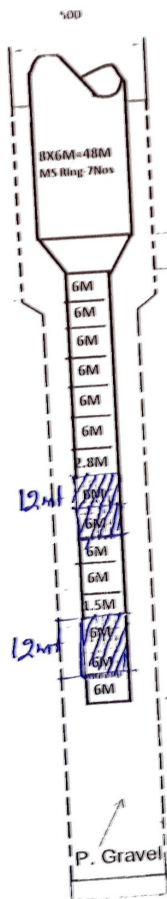
Completion Plan Of Tubewell

Name Of Work : Construction of T. W. of G.P. Jamuka, Block Paswan, District, Luckhimpur Khari
 Name Of Program : J. I. 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 : 260/ED/Phase3/2022-23/X, Dated 24.12.2022

Lowered Assembly Chart of T. W of Jamuka G.P W/S Scheme District : Luckhimpur Khari

Strata

0	5	M	Surface Soil
5	12	M	Clay Kankar
12	33	M	Medium Sand
33	45	M	Clay Kankar
45	57	M	Medium Sand
57	62	M	Clay Kankar
62	67	M	Medium Sand
67	79	M	Clay Kankar
79	99	M	Medium Sand
99	111	M	Clay Kankar
111	130	M	Medium Sand
130	136	M	Clay Kankar
136	151	M	Medium Sand
151	159	M	Clay Kankar
159	165	M	Medium Sand



ABSTRACT

1	Type of Rig Machine	
2	Static Water level	5.60 IPM
3	Required Discharge	500 X 450
4	Bore Size (MM)	200 X 150
5	Assembly Size (MM)	23 04 2023
6	Drilling Starting Date	27 04 2023
7	Drilling Completion Date	16.5 M
8	Total Depth Of Drilling	28 04 2023
9	Logging Date	16.5 M
10	Logging Depth	

Logging Report

SI No	Depth (m)	Thickness (m)	Remarks
1	45 - 57	12	
2	62 - 67	5	
3	79 - 99	20	
4	111 - 130	19	
5	136 - 151	15	
			(Good All)
	86.5 M		
	98.5 M		
	112.0 M		
	124.0 M		
	130.0 M		

Details of Lowered Assembly			
i)	200	MM Dia Housing Pipe	48.0 M
ii)	150	MM Dia M. S. Slotted pipe	24 M
iii)	150	MM Dia M. S. Plain pipe	58.3 M
iv)	200 X 150	MM Dia M S Reducer	0.2 M
Total			130.50 Meter
AGL			0.50 Meter
BGL			130.00 Meter
Date of Lowering			29.04.2023

Recommended & Prepared by
 M/S. NCC Ltd.

Verified by
VIKAS KUMAR
 JUNIOR ENGINEER
 DIVISIONAL OFFICE (E&M)
 U.P. JAL NIGAM (R)
 LUCKNOW

Recommended by
Vinay Kumar
 Assistant Engineer (E&M)
 13th Division U.P. Jal Nigam (R) Lucknow
 Approved by
L.F.
 13th Division U.P. Jal Nigam (R) Lucknow