

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- ORAHARA, BLOCK- MITAULI, 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 26.Mar.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:-

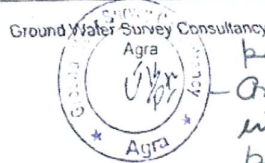
Mud Resistivity = 20.68 Ohms.

Drilling Water Resistivity = 22.60 Ohms.

Approx Water Level = 4.5 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 23	13	Fine sand	Good
4.	23 - 25	2	Clay kankar	
5.	25 - 35	10	Medium sand	Good
6.	35 - 46	11	Clay kankar	
<del>7.</del>	<del>46 - 63*</del>	<del>17</del>	<del>Medium sand</del>	<del>Good</del>
<del>8.</del>	<del>63 - 67</del>	<del>4</del>	<del>Clay kankar</del>	
<del>9.</del>	<del>67 - 75*</del>	<del>8</del>	<del>Medium sand</del>	<del>Good</del>
10.	75 - 80	5	Clay kankar	
11.	80 - 88*	8	Medium sand	Good
12.	88 - 105	17	Clay kankar	
13.	105 - 115*	10	Medium sand	Good
14.	115 - 125	10	Clay kankar	
15.	125 - 130*	5	Medium sand	Good
16.	130 - 137	7	Clay kankar	
17.	137 - 153*	16	Medium sand	Good
18.	153 - 165	12	Clay kankar	

GCH  
27/03/23

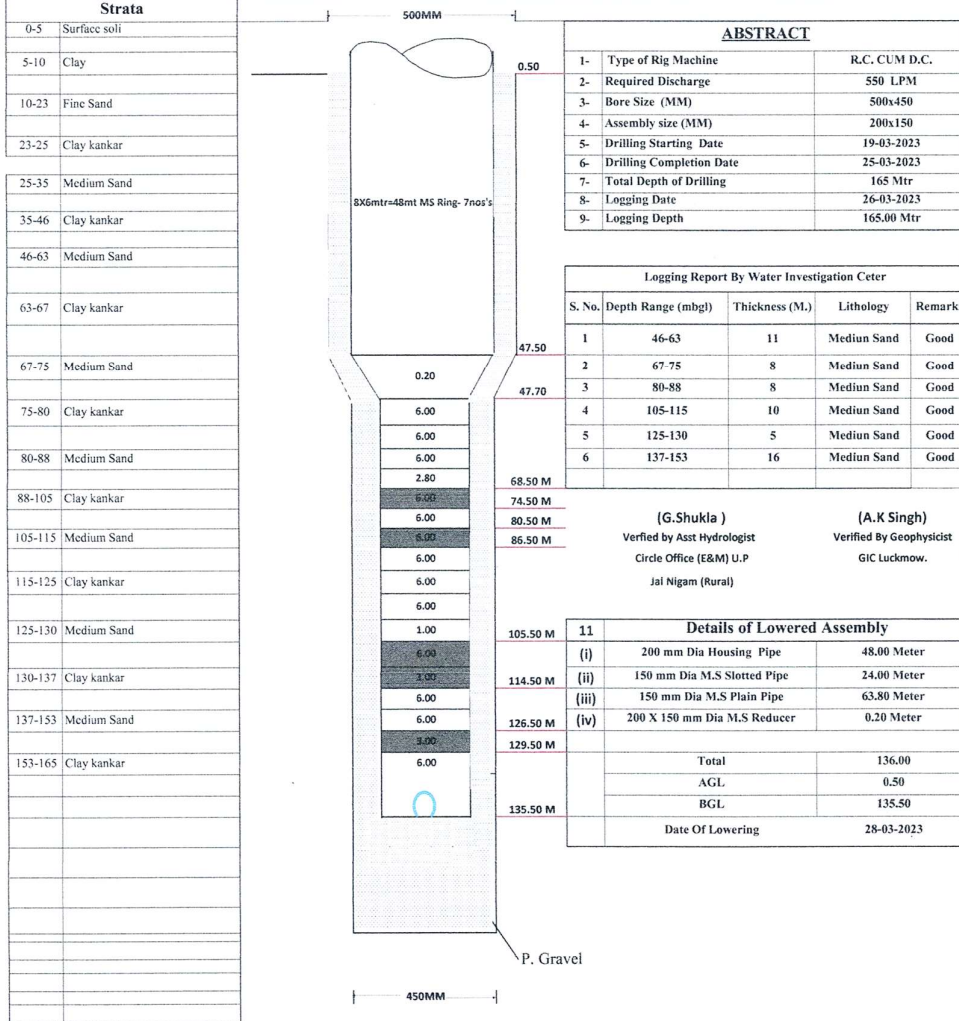


- Logging performed as per GWSM guidelines  
Ground water quality interpreted by firm as per their logger calibration

## COMPLETION PLAN OF TUBEWELL

**NAME OF WORK** :- Construction of T.W- of G.P - Orahara, 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** :- 102/ED/Phase 2/2022-23/VI, Dt. 14.09.2022

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



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