

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MUNDANIZAM, BLOCK- MOHAMMADI,  
DISTT-LAKHIMPUR KHIRI  
UNDER  
JAL JIVAN MISSION

**Introduction :**

A Deep bore hole was drilled 170 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 16.Dec.2022.

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:-

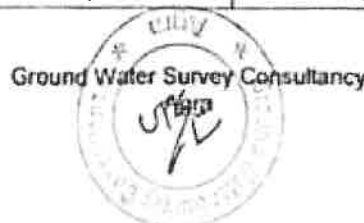
Mud Resistivity = 22.26 Ohms.

Drilling Water Resistivity = 24.29 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Clay	
3.	15 - 21	6	Fine sand	
4.	21 - 27	6	Clay kankar	
5.	27 - 36	9	Fine to Medium sand	Medium
6.	36 - 42	6	Clay kankar	
<del>7.</del>	42 - 51*	9	Medium sand	Medium
8.	51 - 59	8	Clay kankar	
<del>9.</del>	59 - 70*	11	Medium sand	Medium
10.	70 - 78	8	Clay kankar	
<del>11.</del>	78 - 82*	4	Medium sand	Medium
<del>12.</del>	82 - 95	13	Clay kankar	
<del>13.</del>	95 - 101*	6	Medium sand	Medium
<del>14.</del>	101 - 110	9	Clay kankar	
<del>15.</del>	110 - 120*	10	Medium sand	Medium
<del>16.</del>	120 - 134	14	Clay kankar	
<del>17.</del>	134 - 143*	9	Medium sand	Medium
<del>18.</del>	143 - 150	7	kankar	
<del>19.</del>	150 - 158*	8	Medium sand	Medium
18.	158 - 165	7	Clay kankar	

Sr No 7-44-51  
(7m)  
Sr No 9-60-70  
(10m)



Logging performed as per SWSM guidelines Groundwater Quality interpreted by firm as per their loggers as per calibration 98m

Sadar

NCC  
JJMS

42m<sup>3</sup>

Mundanizam, Black-mohammed

Req. dia - 700 cpm

A. base - 300 x 150 mm  
24

L. depth - 16.5

Repost - 16 1/2

1. 42 - 51 = 9 (44-51 = 7m)

2. 59 - 70 = 11 (60-70 = 10)

3. 70 - 82 = 4

4. 95 - 101 = 6 → 6

5. 110 - 120 = 10 → 9

6. 134 - 143 = 9 → 6

7. 150 - 150 = 0

