

# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

**Introduction :**

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth ~~155~~ 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.Feb.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 = 21.70 ~~Ohms.~~

Drilling Water Resistivity = 22.62 ~~Ohms.~~

Approx Water Level = 11 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 - 35	20	Medium sand	Good
4.	35 - 50	15	Clay kankar	
<del>5.</del>	50 - 65*	15	Medium sand	Good
<del>6.</del>	65 - 70	5	Clay kankar	
<del>7.</del>	70 - 75*	5	Medium sand	Good
8.	75 - 92	17	Clay kankar	
<del>9.</del>	92 - 111*	19	Medium sand & kankar	Good
10.	111 - 119	8	Clay kankar	
<del>11.</del>	119 - 140*	21	Medium sand	Good
12.	140 - 155	15	Clay kankar	

Sr No 09-92-109  
(17m)

GSh  
18/02/23



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

NCC  
 abhay  
 JJM-3

Mohammadi Soray, mohammad. (10)  
 LKP  
42m<sup>3</sup>

Discharge - 760 LPM

A-size - 300x150mm  
 30

0.5

Rept. 16<sup>2</sup>/23

50 - 65 = 15

70 - 75 = 5

92 - 111 = 19 (92-109)  
 = 17 ⇒ 15

119 - 140 = 21 ⇒ 12+3 ⇒ 15

0.20

47.5

47.7

6.0

6.0

6.0

6.0

6.0

6.0

6.0

6.0

3.8

93.5

6.0

|||||||

6.0

|||||||

3.0

|||||||

108.5

6.0

6.0

120.5

6.0

|||||||

6.0

|||||||

3.0

|||||||

135.5

6.0

140.5

141.5