

# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- RAHTA YUSHUF, BLOCK- PATIYALI, DISTT- KASGANJ UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 100 mtrs. depth. and Logged depth ~~100~~ mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Kasganj.

On the request of M/S PNC-SPML-JV, Kasganj. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 24.May 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 = ~~14.36~~ Ohms.

Drilling Water Resistivity = ~~15.41~~ Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 7	2	Dry sand	
3.	7 - 10	3	Clay kankar	
4.	10 - 20	10	Fine sand	
5.	20 - 32	12	Clay kankar	
6.	32 - 36	4	Fine sand	
7.	36 - 40	4	Clay kankar	
8.	40 - 55*	15	Fine to medium sand	Medium
9.	55 - 61	6	Clay kankar	
10.	61 - 70*	9	Medium sand	Medium
11.	70 - 75	5	Clay kankar	
12.	75 - 90*	15	Fine to medium Sand	Medium
13.	90 - 94	4	Clay kankar	
14.	94 - 100*	6	Fine to medium sand	Medium



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