

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BARTHAR, BLOCK- SHEETALPUR, DISTT- ETAH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 120 mtres. depth. and Logged depth 110 mtres. at above site. Was drilled by M/s Kalpataru Power Transmission limited, Etah.

On the request of M/s Kalpataru Power Transmission limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 01 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 = 13.81 Ohms.

Drilling Water Resistivity = 14.47 Ohms.

Approx Water Level = 8 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Dry sand	
3.	8 - 13	5	Clay	
4.	13 - 25	12	Medium sand	Medium
5.	25 - 30	5	Clay kankar	
6.	30 - 37	7	Medium sand	Medium
7.	38 - 41	3	Clay kankar	
8.	41 - 48*	7	Medium sand	Medium
9.	48 - 53	5	Clay kankar	
10.	53 - 61*	8	Fine to Medium sand	Medium
11.	61 - 85	24	Clay kankar	
12.	85 - 90*	5	Fine to Medium sand	Medium
13.	90 - 95	5	Clay kankar	
14.	95 - 102	7	Sand and Kankar	Medium
15.	102 - 110	8	Clay kankar	

Ground Water Survey Consultancy  
Agra



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