

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- PAHARPUR, BLOCK- ALIGANJ, DISTT- ETAH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 106 mtrs. at above site. Was drilled by M/s JMC Projects India Limited, Etah

On the request of M/s JMC Projects India Limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 04.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 = 18.50 Ohms.  
Drilling Water Resistivity = 21.42 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 - 8	3	Fine sand	
3.	8 - 20	12	Clay kankar	
4.	20 - 30	10	Fine to Medium sand	Medium
5.	30 - 45	15	Clay kankar	
6.	45 - 67*	22	Medium sand	Medium
7.	67 - 93	26	Clay kankar	
8.	93 - 98	5	Fine sand	Medium
9.	98 - 106	8	Clay kankar	

Sr No 6 have thin bands of kankar



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

G. S. Ghosh  
26/12/22