

REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- PATTI KHURD, BLOCK- MOHAMMADABAD
DISTT- FARRUKHABAD
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth ~~198~~ ¹⁹⁶ mtrs. at above site. Was drilled by M/s G.V.P.R. Engineering Ltd., Hyderabad.

On the request of M/s G.V.P.R. Engineering Ltd., Hyderabad. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 29.August.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 = 28.57 Ohms.
Drilling Water Resistivity = 16.28 Ohms.
Approx Water Level = 24 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 - 25	10	Fine sand	
4.	25 - 45	20	Clay kankar	
5.	45 - 60*	15	Medium sand	Good
6.	60 - 65	5	Clay kankar	
7.	65 - 71	6	Kankar	
8.	71 - 87	16	Clay kankar	
9.	87 - 110*	23	Medium sand	Good
10.	110 - 125	15	Clay kankar	
11.	125 - 131	6	Kankar	
12.	131 - 196	65	Clay kankar	

- Sr No 5 - may consider as 45-50
- Sr No 10 is intermixed with bands of kankar inter mixed.



- Logging performed as per SWM guidelines
- Ground water quality noted by 5 samples per their calibration

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