

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MITRASAINPUR, BLOCK- KANNAUJ, DISTT- KANNAUJ UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 140 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 14.Aug.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 = 16.24 Ohms.

Drilling Water Resistivity = 17.69 Ohms.

Approx Water Level = 21 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 20	15	Clay kankar	
3.	20 - 25	5	Fine sand	
4.	25 - 38	13	Clay kankar	
5.	38 - 55*	17	Medium sand	Medium
6.	55 - 67	12	Clay kankar	
7.	67 - 70	3	Fine sand	Medium
8.	70 - 85	15	Clay kankar	
9.	85 - 91*	6	Fine to Medium sand	Medium
10.	91 - 95	4	Kankar	
11.	95 - 106*	11	Fine to Medium sand	Medium
12.	106 - 140	34	Clay kankar	

Note :- Please ensure pre-monsoon water level before lower the well assembly.

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Medium.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.

Geophysicist



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