

REPORT ON GEOPHYSICAL WELL LOGGING
AT
GRAM PANCHAYAT- KHEDI PARDHAN, BLOCK- BARAUT,
DISTT- BAGHPAT
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 LC Infra Projects Pvt. Ltd., Baghpat.

On the request of M/s LC Infra Projects Pvt. Ltd., Baghpat. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 22.June.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:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay	
3.	10 - 13	3	Fine sand	
4.	13 - 20	7	Clay kankar	
5.	20 - 24	4	Fine to Medium sand	Medium
6.	24 - 26	2	Clay kankar	
7.	26 - 45	19	Medium sand & kankar	Medium
8.	45 - 53	8	Clay kankar	
9.	53 - 64*	11	Medium sand	Medium
10.	64 - 66	2	Kankar	
11.	66 - 72*	6	Medium sand	Medium
12.	72 - 80	8	Clay kankar	
13.	80 - 85*	5	Fine to Medium sand	Medium
14.	85 - 90	5	Clay kankar	
15.	90 - 93	3	Sandy clay	
16.	93 - 140	47	Clay kankar	

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Fig 7 Water logging Report



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 tubewell.
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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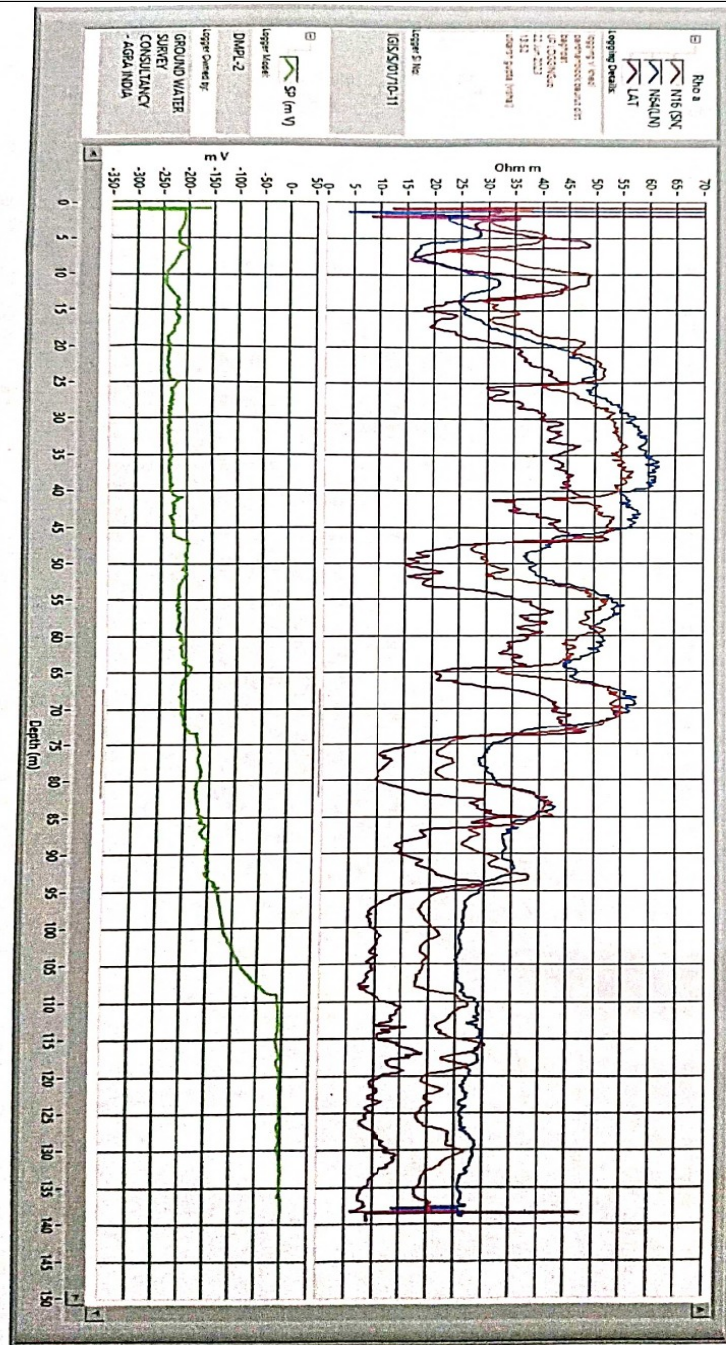


Fig 9 Water logging Graph