



GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

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REPORT ON GEOPHYSICAL WELL LOGGING for UTTAR PRADESH JAL NIGAM, LUCKNOW VILLAGE - BEERA BLOCK - GOHAND DISTT. - HAMIRPUR JUNE 2021

Introduction :

A deep bore hole drilling depth 55 mtrs. & depth logged 50 mtrs. was drilled by M/S PNC & SPML, Hamirpur. at above site. On the request of M/S M/S PNC & SPML, Hamirpur. conducted a Geophysical well Logging in the above bore hole using IGIS Well Logger on 27 June 2021.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral.

Details of major equifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

<u>S.N.</u>	<u>Depth range(m)</u>	<u>Thickness(m)</u>	<u>Lithology</u>	<u>Expected Water Quality</u>
1.	0 - 5	5	Surface clay	
2.	5 - 10	5	Clay kankar	
3.	10 - 15	5	Fine sand	
4.	15 - 18	3	Clay kankar	
5.	18 - 21	3	Sandy clay	
6.	21 - 29	8	Clay kankar	
7.	29 - 32	3	Medium sand	Good
8.	32 - 34	2	Clay kankar	
9.	34 - 42*	8	Medium sand	Good
10.	42 - 50	8	Clay kankar	

Specializations In

Electric Well Logging, Geophysical Survey, Resistivity Survey, Rainwater Harvesting, Construction of Recharge Well, Rectification of Tubewells, Ground Water Investigations.

Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Good.
4. Expected discharge is 150 - 200 L.P.M.
5. 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.

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Geophysicist

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