



GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

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Ref No.....02.....

Date.....25/06/2021.....

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

Introduction :

A deep bore hole drilling depth 51 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 24 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 - 15	10	Clay kankar	
3.	15 - 18	3	Very Fine sand	
4.	18 - 28	10	Clay kankar	
5.	28 - 31	3	Fine Sand	Good
6.	31 - 36	5	Clay kankar	
7.	36 - 46*	10	Medium sand	Good
8.	46 - 50	4	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

Ground Water Survey Consultancy