



GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

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Ref No. 05.....

Date 26-6-2021

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

Introduction :

A deep bore hole drilling depth 55 mtrs. & depth logged 53.5 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 25 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 - 8	3	Fine sand	
3.	8 - 15	7	Clay kankar	
4.	15 - 18	3	Sandy clay	
5.	18 - 25	7	Clay kankar	
6.	25 - 32*	7	Sand and kankar	med to good
7.	32 - 43	11	Clay kankar	
8.	43-53.5*	10.5	Fine to med sand	med to good

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 200 - 250 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.

*JTG
RPT*

Geophysicist

Ground Water Survey Consultancy