



GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

Ph : 0562 - 4058694 (M) 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

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

Introduction :

A deep bore hole drilling depth 49.5 mtrs. & depth logged 47 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 July 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 - 12	7	Clay kankar	
3.	12 - 18	6	Sandy Clay	
4.	18 - 24	6	Medium sand	Medium to Good
5.	24 - 28	4	Clay kankar	
6.	28 - 32*	4	Medium sand	Medium to Good
7.	32 - 38	6	Clay kankar	
8.	38 - 47*	9	Sand & kankar	Medium 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 Medium to Good.
4. Expected discharge is 100 - 150 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