



GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

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Ref No.....11.....

Date...30-06-2021.....

REPORT ON GEOPHYSICAL WELL LOGGING

for
 UTTAR PRADESH JAL NIGAM, LUCKNOW
 VILLAGE - BASELA BLOCK - RATH DISTT. - HAMIRPUR
 JUNE 2021

Introduction :

A deep bore hole drilling depth 38 mtrs. & depth logged 36 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 30 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 - 13	8	Clay kankar	
3.	13 - 18	5	Sandy Clay	
4.	18 - 26	8	Clay kankar	
5.	26 - 36*	10	Soft Weathered Zone	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 medium to 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.

UTKPTV

Geophysicist

Ground Water Survey Consultancy