



# GROUND WATER SURVEY CONSULTANCY

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

### Introduction :

A deep bore hole drilling depth 44 mtrs. & depth logged 42 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 22 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 - 8	3	Clay kankar	
3.	8 - 16	8	Sandy Clay	
4.	16 - 18	2	Very Fine sand	
5.	18 - 20	2	Clay kankar	
6.	20 - 24	4	Fine sand	
7.	24 - 32	8	Clay kankar	
8.	32 - 42*	10	Soft Weathered rock	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 80 - 100 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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