



GROUND WATER SURVEY CONSULTANCY

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

Introduction :

A deep bore hole drilling depth 66 mtrs. & depth logged 63 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 July 2021.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Laterat.

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	Fine to medium sand	
4.	18 - 22	4	Clay kankar	
5.	22 - 28	6	Fine to medium sand	
6.	28 - 30	2	Clay kankar	
7.	30 - 36	6	Fine to medium sand	Medium
8.	36 - 48	12	Clay kankar	
9.	48 - 52*	4	Sand & Kankar	Medium
10.	52 - 56	4	Clay kankar	
11.	56 - 63*	7	Soft Weathered Rock	Medium

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.
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.

*U/S
EPR*

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