



# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

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## REPORT ON GEOPHYSICAL WELL LOGGING

for  
UTTAR PRADESH JAL NIGAM, LUCKNOW  
VILLAGE - BAREIL BLOCK - RATH DISTT. - HAMIRPUR  
(Bareilly)  
JULY 2021

### Introduction :

A deep bore hole drilling depth 43.44 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 03 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>Defth range(m)</u>	<u>Thickness(m)</u>	<u>Lithology</u>	<u>Expected Water Quality</u>
1.	0 - 5	5	Surface clay	
2.	5 - 10	5	Sandy Clay	
3.	10 - 18	8	Clay kankar	
4.	18 - 24	6	Fine to med sand	Medium to Good
5.	24 - 30	6	Clay kankar	
6.	30 - 34*	4	Fine sand	Medium to Good
7.	34 - 39	5	Clay kankar	
8.	39 - 42*	4	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.

*JTzpt*

**Geophysicist**  
**Ground Water Survey Consultancy**