



# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

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## REPORT ON GEOPHYSICAL WELL LOGGING

for  
UTTAR PRADESH JAL NIGAM, LUCKNOW  
VILLAGE - DHANAUZI BLOCK - GOHAND DISTT. - HAMIRPUR  
JUNE 2021

### Introduction :

A deep bore hole drilling depth 50.30 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 29 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>Defth range(m)</u>	<u>Thickness(m)</u>	<u>Lithology</u>	<u>Expected Water Quality</u>
1.	0 - 5	5	Surface clay	
2.	5 - 16	11	Clay kankar	
3.	16 - 20	4 ✓	Fine to medium sand	
4.	20 - 24	4	Clay kankar	
5.	24 - 28	4	Sandy Clay	
6.	28 - 32	4	Clay kankar	
7.	32 - 47*	15	Medium sand	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 200 - 250 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.

*UTG  
FPR*

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