



# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

Ph : 0562 - 4058694 (M) 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

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## REPORT ON GEOPHYSICAL WELL LOGGING

for  
UTTAR PRADESH JAL NIGAM, LUCKNOW  
VILLAGE - REGWARAKHURD BLOCK - GOHAND DISTT. - HAMIRPUR  
JULY 2021

### Introduction :

A deep bore hole drilling depth 42.2 mtrs. & depth logged 39 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 05 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:-

S.N.	Defth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface clay	
2.	5 - 7	2	Clay kankar	
3.	7 - 10	3	Fine to medium sand	
4.	10 - 25	15	Clay kankar	
5.	25 - 36*	11	Medium sand & kankar	Good
6.	36 - 39	3	Weathered rock	

(WB)

### 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 100 - 125 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.

*UTZph*

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