



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

Ref No.....29.....

Date..15-July-21.....

REPORT ON GEOPHYSICAL WELL LOGGING

for
UTTAR PRADESH JAL NIGAM, LUCKNOW
VILLAGE - SARSAI BLOCK - RATH DISTT. - HAMIRPUR
JULY 2021

Introduction :

A deep bore hole drilling depth 42.5 mtrs. & depth logged 41.5 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 15 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 - 9	4	Sandy Clay	
3.	9-12	3	Clay kankar	
4.	12 - 22	10	Sand and clay kankar	
5.	22- 23	1	Clay kankar	
6.	23-26*	3	Fine to med Sand .	Medium
7.	26-35	9	Clay Kankar	
8.	35-41.5*	6.5	weathred 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 - 120 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
12/12/20

Geophysicist

Ground Water Survey Consultancy