

AEOP68869LZJ

GROUND WATER SURVEY CONSULTANCY
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REPORT ON GEOPHYSICAL WELL LOGGING
 for
UTTAR PRADESH JAL NIGAM, LUCKNOW
 VILLAGE - DANDAUN BLOCK - SARILA DISTT. - HAMIRPUR
 JULY 2021

Introduction :
 A deep bore hole drilling depth 59.4 mtrs. & depth logged 59 mtrs. was drilled by MIS PWC & SPML, Hamirpur, at above site. On the request of MIS MIS PWC & SPML, Hamirpur, conducted a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19 July 2021.

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

Details of major aquifer 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.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface clay	
2.	5 - 8	3	Fine sand	
3.	8 - 31	23	Clay kañkar	
4.	31 - 41*	10	Fine to med. sand	Med. to Good
5.	41 - 52	11	Clay kañkar	
6.	52 - 59*	7	Soft Weathered Rock	Med. 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 strata 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 150 - 200 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.

[Signature]
 Geophysicist
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