

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A- 1883

Date:- 15-10-2023

NAME OF SITE

AT SITE- Rampur Kukhat

BLOCK- Sarwan Kheda

DISTT- Kanpur Dehat

NAME OF AGENCY

M/s Indian Hume Pipe Co. Ltd. Kanpur Dehat



GROUND WATER SURVEY CONSULTANCY
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Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

AT SITE- RAMPUR KUKHAT, BLOCK- SARWAN KHEDA, DISTT- KANPUR DEHAT
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 250 mtrs. depth and logged depth 233 mtrs. at above site was drilled by M/s Indian Hume Pipe Co. Ltd. Kanpur Dehat.

On the request of M/s Indian Hume Pipe Co. Ltd. Kanpur Dehat. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 15.Oct.2023.

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

Mud Resistivity = 14.86 Ohms.

Drilling Water Resistivity = 15.70 Ohms.

Approx Water Level = 2 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 12	2	Fine sand	
4.	12 - 30	18	Clay kankar	
5.	30 - 40*	10	Medium sand	Good
6.	40 - 50	10	Clay kankar	
7.	50 - 60*	10	Medium sand	Good
8.	60 - 75	15	Clay kankar	
9.	75 - 80	5	Fine sand	Mod to Good
10.	80 - 89	9	Clay kankar	
11.	89 - 91	2	Fine sand	Mod to Good
12.	91 - 121	30	Clay kankar	
13.	121 - 136*	15	Fine to Medium sand	Mod to Good
14.	136 - 181	45	Clay kankar	
15.	181 - 184	3	Fine sand	Moderate
16.	184 - 191	7	Clay kankar	
17.	191 - 199*	8	Medium sand	Moderate
18.	199 - 202	3	Clay kankar	
19.	202 - 212*	10	Medium sand	Moderate
20.	212 - 233	21	Clay kankar	

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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 Moderate to Good.
4. 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.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.

Geophysicist



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