

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:- P- 717

Date:- 15-06-2023

NAME OF SITE

GRAM PANCHAYAT- Maraucha

BLOCK- Mankapur

DISTT- Gonda

NAME OF AGENCY

M/s Rays Power Infra Pvt. Ltd.
Lucknow



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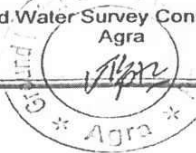
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MARAUCHA, BLOCK- MANKAPUR, DISTT- GONDA
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 162 mtrs. at above site. Was drilled by M/s Rays Power Infra Pvt. Ltd. Lucknow.

On the request of M/s Rays Power Infra Pvt. Ltd. Lucknow. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 15.June.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 = 15.91 Ohms.

Drilling Water Resistivity = 17.28 Ohms.

Approx Water Level = 14 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 16	11	Clay	
3.	16 - 35	19	Fine to Medium sand	Medium
4.	35 - 40	5	Clay kankar	
5.	40 - 75*	35	Medium sand	Medium
6.	75 - 80	5	Clay kankar	
7.	80 - 83	3	Fine sand	Medium
8.	83 - 105	22	Clay kankar	
9.	105 - 110*	5	Medium sand	Medium
10.	110 - 131	21	Clay kankar	
11.	131 - 145*	14	Medium sand	Medium
12.	145 - 150	5	Kankar	
13.	150 - 162*	12	Medium sand	Medium

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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 tube well.
3. The Quality of water is expected Medium.
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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