

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A-2432

Date:- 26-12-2023

NAME OF SITE

AT SITE- Gahaloo

BLOCK- Rasulabad

DISTT- Kanpur Dehat

NAME OF AGENCY

M/s Indian Hume Pipe Co. Ltd.
Auraiya



GROUND WATER SURVEY CONSULTANCY

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

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Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

AT SITE- GAHALOO, BLOCK- RASULABAD, DISTT- KANPUR DEHAT
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 275 mtrs. depth and logged depth 270 mtrs. at above site was drilled by M/s Indian Hume Pipe Co. Ltd. Auraiya.

On the request of M/s Indian Hume Pipe Co. Ltd. Auraiya. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 26.Dec.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 = 16.72 Ohms.

Drilling Water Resistivity = 17.50 Ohms.

Approx Water Level = 4.5 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 14 | 9 | Clay kankar | |
| 3. | 14 - 18 | 4 | Fine to Medium sand | |
| 4. | 18 - 21 | 3 | Clay kankar | |
| 5. | 21 - 27 | 6 | Fine sand | Good |
| 6. | 27 - 35 | 8 | Clay kankar | |
| 7. | 35 - 43 | 8 | Medium sand | Good |
| 8. | 43 - 53 | 10 | Clay kankar | |
| 9. | 53 - 60 | 7 | Fine sand | Good |
| 10. | 60 - 66 | 6 | Clay kankar | |
| 11. | 66 - 70* | 4 | Medium sand | Good |
| 12. | 70 - 100 | 30 | Clay kankar | |
| 13. | 100 - 120* | 20 | Medium sand | Good |
| 14. | 120 - 217 | 97 | Clay kankar | |
| 15. | 217 - 250* | 33 | Medium sand | Good |
| 16. | 250 - 252 | 2 | Clay kankar | |
| 17. | 252 - 265* | 13 | Medium sand | Good |
| 18. | 265 - 270 | 5 | 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 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.



