

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-55

Date:- 19-04-2024

NAME OF SITE

GRAM PANCHAYAT- Sakrauli Zone -2

BLOCK- Jalesar

DISTT- Etah

NAME OF AGENCY

M/s ION Exchange India Limited
Etah



GROUND WATER SURVEY CONSULTANCY

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



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SAKRAULI ZONE -2, BLOCK- JALESAR, DISTT- ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 100 mtrs. depth. and Logged depth 100 mtrs. at above site. Was drilled by M/s ION Exchange India Limited, Etah.

On the request of M/s ION Exchange India Limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.April.2024

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 = 14.67 Ohms.

Drilling Water Resistivity = 15.70 Ohms.

Approx Water Level = 21 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 - 14 | 4 | Fine sand | |
| 4. | 14 - 20 | 6 | Clay kankar | |
| 5. | 20 - 23 | 3 | Medium sand | Medium |
| 6. | 23 - 28 | 5 | Clay kankar | |
| 7. | 28 - 30 | 2 | Fine sand | Medium |
| 8. | 30 - 41 | 11 | Clay kankar | |
| 9. | 41 - 48* | 7 | Medium sand | Medium |
| 10. | 48 - 53 | 5 | Clay kankar | |
| 11. | 53 - 55 | 2 | Fine sand | Medium |
| 12. | 55 - 62 | 7 | Clay kankar | |
| 13. | 62 - 65 | 3 | Fine sand | Medium |
| 14. | 65 - 75 | 10 | Clay kankar | |
| 15. | 75 - 85* | 10 | Fine to Medium sand | Medium |
| 16. | 85 - 100 | 15 | 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 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.



Geologist

