

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A-1627

Date:- 12-09-2023

NAME OF SITE

GRAM PANCHAYAT- Kripa Happoo BLOCK- Milak DISTT- Rampur

NAME OF AGENCY

M/s NKG Infrastructure Limited
Delhi



GROUND WATER SURVEY CONSULTANCY

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

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Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KRIPA HAPPOO, BLOCK- MILAK, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 mtrs.
at above site. Was drilled by M/s NKG Infrastructure Limited, Delhi.

On the request of M/s NKG Infrastructure Limited, Delhi. a Geophysical well
Logging in the above bore hole using IGIS Well Logger on 12.Sep.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral.
Details of major equifer 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.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|----------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 8 | 3 | Fine to Medium | |
| 3. | 8 - 11 | 3 | Clay Kankar | |
| 4. | 11 - 14 | 3 | Medium sand | |
| 5. | 14 - 19 | 5 | Clay kankar | |
| 6. | 19 - 39 | 20 | Medium sand | Medium |
| 7. | 39 - 45 | 6 | Clay kankar | |
| 8. | 45 - 64* | 19 | Medium sand | Medium |
| 9. | 64 - 66 | 2 | Clay Kankar | |
| 10. | 66 - 70* | 4 | Medium Sand | Medium |
| 11. | 70 - 71 | 1 | Clay Kankar | |
| 12. | 71 - 77* | 6 | Medium Sand | Medium |
| 13. | 77 - 82 | 5 | Clay Kankar | |
| 14. | 82 - 95* | 13 | Medium sand | Medium |
| 15. | 95 - 100 | 5 | Clay Kankar | |
| 16. | 100 - 113* | 13 | Medium sand & Kankar | Medium |
| 17. | 113 - 116 | 3 | Clay Kankar | |
| 18. | 116 - 127* | 11 | Medium Sand | Medium |
| 19. | 127 - 130 | 3 | Clay | |
| 20. | 130 - 140 | 10 | Sandy Clay | |



Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta 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.
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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