

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-B- 1825

Date:- 26-09-2023

NAME OF SITE

GRAM PANCHAYAT- Chhitoni

BLOCK- Sahahbad

DISTT- Rampur

NAME OF AGENCY

M/s NKG Infrastructure Limited
Delhi



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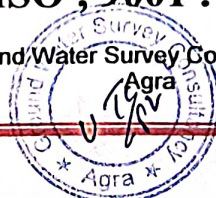
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO ; 9001 : -2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- CHHITONI, BLOCK- SAHAHBAD, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 150 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 26.Sep.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:-

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|----------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 18 | 13 | Dry sand | |
| 3. | 18 - 26 | 8 | Clay kankar | |
| 4. | 26 - 33 | 7 | Fine sand | |
| 5. | 33 - 40 | 7 | Clay kankar | |
| 6. | 40 - 45 | 5 | Fine to Medium sand | Med to Good |
| 7. | 45 - 50 | 5 | Clay kankar | |
| 8. | 50 - 67* | 17 | Medium sand | Med to Good |
| 9. | 67 - 75 | 8 | Clay kankar | |
| 10. | 75 - 110* | 35 | Medium sand & kankar | Med to Good |
| 11. | 110 - 115 | 5 | Clay kankar | |
| 12. | 115 - 125 | 10 | Fine sand & kankar | Med to Good |
| 13. | 125 - 150 | 25 | Clay kankar | |

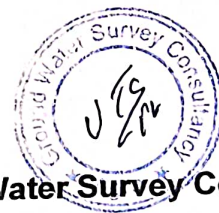
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Conclusions and Recommendations :-

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 Medium 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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Rho s
 N 16(SN)
 N 64 (LN)
 LAT

Location:
 Logging V. Center
 Econ. Survey Dist.
 No. of
 Log No.:
 Date: 25.05.2023
 Time: 14:05
 Operator:
 Umapati G. (S)
 Well Depth:

Logger S No.:
 IGS/S/01/21-22

Logger Model:
 SP

DMP-L-2
 Logger Owned By:
 GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP, India

