

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-N-1655

Date:- 29-03-2023

NAME OF SITE

GRAM PANCHAYAT- Hasnapur BLOCK- Khudaganj Katra DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd.
Shahjahanpur



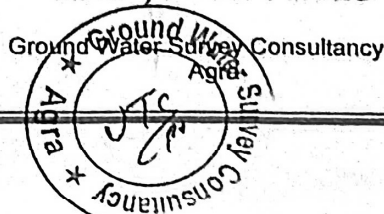
GROUND WATER SURVEY CONSULTANCY

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

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ISO ; 9001 : 2015



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- HASNAPUR, BLOCK- KHUDAGANJ KATRA,
DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

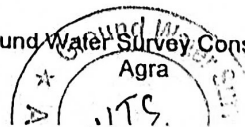
A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 29.Mar.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:-

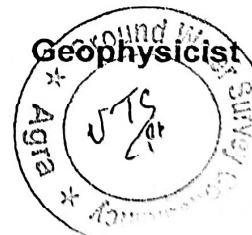
| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|--------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 15 | 10 | Fine sand | |
| 3. | 15 - 25 | 10 | Clay kankar | |
| 4. | 25 - 29 | 4 | Medium sand | Med to Good |
| 5. | 29 - 32 | 3 | Clay kankar | |
| 6. | 32 - 50* | 18 | Medium sand | Med to Good |
| 7. | 50 - 60 | 10 | Clay kankar | |
| 8. | 60 - 81* | 21 | Medium sand | Med to Good |
| 9. | 81 - 88 | 7 | Clay kankar | |
| 10. | 88 - 96* | 8 | Medium sand | Med to Good |
| 11. | 96 - 108 | 12 | Clay kankar | |
| 12. | 108 - 120* | 22 | Medium sand | Med to Good |

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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.



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