

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-B-1455

Date:- 06-08-2023

NAME OF SITE

GRAM PANCHAYAT- Khwaja Sarai BLOCK- Tilhar DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd,
Shahjahanpur



GROUND WATER SURVEY CONSULTANCY
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations,
112 A-Shree Nagar Colony, Pinzabul Road, Agra- 202006
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KHWAJA SARAI, BLOCK- TILHAR,
DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 138 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 06.Aug.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 - 6 | 1 | Dry sand | |
| 3. | 6 - 15 | 9 | Clay kankar | |
| 4. | 15 - 27 | 12 | Fine sand | |
| 5. | 27 - 31 | 4 | Clay kankar | |
| 6. | 31 - 47 | 16 | Medium sand | Med to Good |
| 7. | 47 - 54 | 7 | Clay kankar | |
| 8. | 54 - 75* | 21 | Medium sand | Med to Good |
| 9. | 75 - 77 | 2 | Clay kankar | |
| 10. | 77 - 95* | 18 | Medium sand | Med to Good |
| 11. | 95 - 100 | 5 | Clay kankar | |
| 12. | 100 - 107* | 7 | Fine to Medium sand | Med to Good |
| 13. | 107 - 116 | 9 | Clay kankar | |
| 14. | 116 - 135* | 19 | Medium sand | Med to Good |
| 15. | 135 - 138 | 3 | Clay kankar | |



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



Ground Water Survey Consultancy

