

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-B-2487

Date:- 03-12-2023

NAME OF SITE

GRAM PANCHAYAT- Gahluiya BLOCK- Banda 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, Firozabad Road, Agra- 282006
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO ; 9001 : 2015

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Agra



**REPORT ON GEOPHYSICAL WELL LOGGING
 AT**

**GRAM PANCHAYAT- GAHLUIYA, BLOCK- BANDA, DISTT- SHAHJAHANPUR
 UNDER
 JAL JIVAN MISSION**

Introduction :

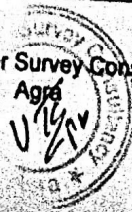
A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 03.Dec.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 - 10 | 5 | Clay kankar | |
| 3. | 10 - 13 | 3 | Fine sand | |
| 4. | 13 - 18 | 5 | Clay kankar | |
| 5. | 18 - 28 | 10 | Fine to Medium sand | Med to Good |
| 6. | 28 - 37 | 9 | Clay kankar | |
| 7. | 37 - 50 | 13 | Medium sand | Med to Good |
| 8. | 50 - 59 | 9 | Clay kankar | |
| 9. | 59 - 65* | 6 | Medium sand | Med to Good |
| 10. | 65 - 68 | 3 | Clay kankar | |
| 11. | 68 - 78* | 10 | Medium sand | Med to Good |
| 12. | 78 - 85 | 7 | Clay kankar | |
| 13. | 85 - 91* | 6 | Fine to Med sand & kan | Med to Good |
| 14. | 91 - 100 | 9 | Clay kankar | |
| 15. | 100 - 120* | 20 | Medium sand | Med to Good |
| 16. | 120 - 126 | 6 | Clay kankar | |
| 17. | 126 - 140* | 14 | 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.

Geologist



Ring #
 N 163(N)
 N M Q N
 LAT

Location:
 Logging & Geology
 Basin Service Corp.
 2000
 69 Ave. 2003
 17 St.
 Orem, Utah 84057
 Log Date:

Paper 5 by
 NGS 5/01/21-22

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