

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:-B-312

Date:- 02-05-2023

NAME OF SITE

GRAM PANCHAYAT- Bahengi Khera BLOCK- Kalan DISTT- Shahjahanpur

NAME OF AGENCY

M/S NCC Ltd.
Shahjahanpur



GROUND WATER SURVEY CONSULTANCY
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ISO : 9001 : 2015
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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BAHENGI KHERA, BLOCK- KALAN,
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 02.May.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 - 7 | 2 | Clay kankar | |
| 3. | 7 - 18 | 11 | Fine sand | |
| 4. | 18 - 32 | 14 | Clay kankar | |
| 5. | 32 - 36 | 4 | Fine to Medium sand | Good |
| 6. | 36 - 41 | 5 | Clay kankar | |
| 7. | 41 - 46 | 5 | Medium sand | Good |
| 8. | 46 - 50 | 4 | Clay kankar | |
| 9. | 50 - 57* | 7 | Medium sand | Good |
| 10. | 57 - 62 | 5 | Clay kankar | |
| 11. | 62 - 68* | 6 | Medium sand | Good |
| 12. | 68 - 76 | 8 | Clay kankar | |
| 13. | 76 - 82* | 6 | Medium sand | Good |
| 14. | 82 - 90 | 8 | Clay kankar | |
| 15. | 90 - 113* | 23 | Medium sand & kankar | Good |
| 16. | 113 - 120 | 7 | Clay kankar | |

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Conclusions and Recommendations 1:

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 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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Rno 3
NT16 (SV)
NS4QUN
LAT

Logging Details:
Contract: 1000
Case: 1000
Date: 10/10/2023
Time: 10:00
Operator: 1000

Logger: Sines
IGIS/5/02/22-23

SP (mV)

Logger Model:
DMPL-2

Logger Carried by:
GROUND WATER
SURVEY
CONSULTANCY
AGRA, UP, INDIA

