

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:- 383

Date:- 15-06-2022

NAME OF SITE

Gram Panchayat- Mo Guleria

BLOCK- Mirzapur

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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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MO GULERIA, BLOCK- MIRZAPUR
DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 145 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 15.June.2022.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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. | Defth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 28 | 23 | Clay kankar | |
| 3. | 28 - 34 | 6 | Fine to Medium sand | Med. to Good |
| 4. | 34 - 38 | 4 | Clay kankar | |
| 5. | 38 - 68* | 30 | Fine to Medium sand | Med. to Good |
| 6. | 68 - 120 | 52 | Clay kankar | |
| 7. | 120 - 140* | 20 | Fine to Medium sand | Med. to Good |
| 8. | 140 - 145 | 5 | Clay kankar | |

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta 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. Expected discharge is 800 to 1000 L.P.M.
5. 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.
6. 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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Sheet
 NTE (SK)
 NTA (LN)
 LAT

Logging in
 Mohenderpur
 Chaudhara Block
 Haripur than Distt
 Shahdolpur
 Location
 15 Aug 2011
 14.11
 Umesh Chandra (CR)

SP (mV)

