

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 40

Date:- 07-04-2022

NAME OF SITE

Gram Panchayat- Diwali

BLOCK- Sindhauli

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- DIWALI, BLOCK- SINDHAULI, DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 122 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 07.Apr.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. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 10 | 5 | Clay kankar | |
| 3. | 10 - 15 | 5 | Medium sand | Good |
| 4. | 15 - 29 | 14 | Clay kankar | |
| 5. | 29 - 37 | 8 | Medium sand | Good |
| 6. | 37 - 44 | 7 | Clay kankar | |
| 7. | 44 - 51* | 7 | Medium sand | Good |
| 8. | 51 - 55 | 4 | Clay kankar | |
| 9. | 55 - 57* | 2 | Fine to Medium sand | Good |
| 10. | 57 - 62 | 5 | Clay kankar | |
| 11. | 62 - 79* | 17 | Medium sand | Good |
| 12. | 79 - 85 | 6 | Clay kankar | |
| 13. | 85 - 109* | 24 | Medium sand | Good |
| 14. | 109 - 120 | 11 | 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 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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Logo 2
M16 (SPT)
MSALUN
LAT

Logging VI Dredal
Block Sindhupal District
Shaysharpu
LOGGICAL
07-Apr-2022
12:06
Ullashi Gupta (A/G)

SP (m V)

