

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTOLOGGING REPORT

Ref No:- 240

Date:- 17-05-2022

NAME OF SITE

Gram Panchayat- Baheta Pathak BLOCK- Madanapur DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd.
Shahjahanpur



GROUND WATER SURVEY CONSULTANCY
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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BAHETA PATHAK, BLOCK- MADANAPUR
DISTT- SHAHJAHANPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 131 mtrs. depth. and Logged depth 129 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 17.May.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 - 17 | 12 | Clay kankar | |
| 3. | 17 - 25 | 8 | Fine sand | Good |
| 4. | 25 - 30 | 5 | Clay kankar | |
| 5. | 30 - 65* | 35 | Medium sand | Good |
| 6. | 65 - 96* | 31 | Fine to Medium sand | Good |
| 7. | 96 - 104 | 8 | Clay kankar | |
| 8. | 104 - 123* | 19 | Medium sand | Good |
| 9. | 123 - 129 | 6 | 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 1000 to 11000 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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Rho a
 N16 (SN)
 N62(LIN)
 LAT

LOGGING - Borehole - 10m
 100 Meters - 10m
 Equipment
 GEOTECHNICAL
 17.10.2011
 16.37
 Location - Agra, INDIA

SP (mV)

