

# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- DEWARI PRAHLADPUR, BLOCK- SORON, DISTT- KASGANJ UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Kasganj.

On the request of M/S PNC-SPML-JV, Kasganj. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 24.Oct.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:-

Mud Resistivity = 15.41 Ohms.

Drilling Water Resistivity = 16.28 Ohms.

Approx Water Level = 14 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology              | Expected Water Quality |
|-------|----------------|--------------|------------------------|------------------------|
| 1.    | 0 - 5          | 5            | Surface soil           |                        |
| 2.    | 5 - 10         | 5            | Dry sand               |                        |
| 3.    | 10 - 23        | 13           | Clay kankar            |                        |
| 4.    | 23 - 28        | 5            | Fine sand              |                        |
| 5.    | 28 - 38        | 10           | Clay kankar            |                        |
| 6.    | 38 - 42        | 4            | Kankar                 |                        |
| 7.    | 42 - 52        | 10           | Clay kankar            |                        |
| 8.    | 52 - 57*       | 5            | Fine to Med sand & kan | Medium                 |
| 9.    | 57 - 65        | 8            | Clay kankar            |                        |
| 10.   | 65 - 69*       | 4            | Fine to Medium sand    | Medium                 |
| 11.   | 69 - 78        | 9            | Clay kankar            |                        |
| 12.   | 78 - 87*       | 9            | Medium sand            | Medium                 |
| 13.   | 87 - 93        | 6            | Clay kankar            |                        |
| 14.   | 93 - 109*      | 18           | Medium sand & kankar   | Medium                 |
| 15.   | 109 - 114      | 5            | Clay kankar            |                        |
| 16.   | 114 - 120*     | 6            | Fine to Medium sand    | Medium                 |
| 17.   | 120 - 130      | 10           | Clay kankar            |                        |

Ground Water Survey Consultancy

