

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BORVANKALA, BLOCK- SADAT, DISTT- GHAZIPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 165 mtrs. at above site. Was drilled by M/S VSA Infra Projects Pvt. Ltd. Ghazipur.

On the request of M/S VSA Infra Projects Pvt. Ltd. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 07.July.2024.

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 = 09.54 Ohms.

Drilling Water Resistivity = 10.90 Ohms.

Approx Water Level = 6 Mtr

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|-------------|------------------------|
| 1. | 08 - 12 | 4 | Fine sand | Moderate |
| 2. | 102 - 120 | 18 | Fine sand | Good |
| 3. | 125 - 140 | 15 | Medium sand | Good |
| 4. | 150 - 160 | 10 | Medium sand | Good |

- Note :-
1. Please ensure pre-monsoon water level before lower the well assembly
 2. Clay kankar is present in depth range 13-14, 30-34, 37-42, 148-149 and 161 Mtr bgl to till depth logged.
 3. Quality Of Ground water is deteriorating Marginally Saline in below 15-80 mtr bgl.
 4. Predominated clay is present in depth range 57-70, 81-90 mtr bgl.

