

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KAMIRUDDINPUR TW NO. 02, ZONE -1, BLOCK- BARACHAWAR,
DISTT- GHAZIPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 360 mtrs. depth. and Logged depth 357 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 04.May.2024.

Logging Parameters - 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 = 14.10 Ohms.

Drilling Water Resistivity = 16.11 Ohms.

Approx Water Level = 6 Mtr

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|----------------------|------------------------|
| 1. | 11 - 20 | 9 | Fine sand | Good |
| 2. | 30 - 50 | 20 | Medium sand & kankar | Good |
| 3. | 61 - 64 | 3 | Fine sand | Moderate |
| 4. | 75 - 90 | 15 | Fine sand | Moderate |
| 5. | 110 - 140 | 30 | Fine to Medium sand | Good |
| 6. | 150 - 156 | 6 | Fine to Medium sand | Good |
| 7. | 167 - 180 | 13 | Medium sand | Good |
| 8. | 195 - 205 | 10 | Fine to Medium sand | Good |
| 9. | 216 - 222 | 6 | Medium sand | Good |

Note :- 1. Please ensure pre-monsoon water level before lower the well assembly
2. Clay kankar is present in depth range 13-29, 51-60, 65-74, 91-109, 141-149, 157-166, 181-194, 206-215, and 223 Mtr bgl to till depth logged.

