

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-B- 2364

Date:- 03-11-2023

NAME OF SITE

GRAM PANCHAYAT- Dawoodpur

BLOCK- Zamania

DISTT- Ghazipur

NAME OF AGENCY

M/s L&T Ltd.
Ghazipur



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO ; 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- DAWOODPUR, BLOCK- ZAMANIA, DISTT- GHAZIPUR
UNDER
JAL JIVAN MISSION

$Q = 270$
60+108+12
200X150
500X450

Introduction :

A Deep bore hole was drilled 155 mtrs. depth. and Logged depth 150 mtrs. at above site. Was drilled by M/S L&T Ltd. Ghazipur.

On the request of M/S L&T Ltd. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 09.Nov.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 = 07.67 Ohms.

Drilling Water Resistivity = 14.03 Ohms.

Approx Water Level = 3 Mtr 61-67

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|------------------------|------------------------|
| 1. | 25 - 28 | 3 | Fine sand | Mod to Good |
| 2. | 35 - 43 | 8 | Fine to Medium sand | Good |
| 3. | 47 - 55 | 8 | Medium sand | Good |
| 4. | 58 - 68 | 10 - 6 | Fine to Medium sand | Good |
| 5. | 71 - 77 | 6 | Fine to Med sand & kan | Good |
| 6. | 102 - 111 | 9 - 6 | Medium sand | Good |
| 7. | 118 - 121 | 3 | Fine sand | Good |
| 8. | 133 - 136 | 3 | Medium sand | Good |
| 9. | 141 - 145 | 4 | Fine sand | Good |

- Note : 1. Please ensure pre-monsoon water level before lower the well assembly
2. Predominated clay is present in depth range 29 to 33 and 113 to 117 mtr bgl.
3. Clay kankar is present in depth range 146 Mtr bgl to till depth logged.



