

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B- 498

Date:- 17-01-2025

### NAME OF SITE

GRAM PANCHAYAT- Usia Zone, A-2      BLOCK- Bhadaura      DISTT- Ghazipur

### NAME OF AGENCY

M/s HFCL Pvt. Ltd.  
Ghazipur



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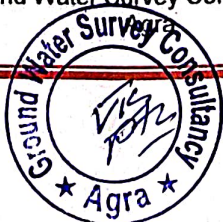
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy



# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- USIA ZONE, A-2, BLOCK- BHADAURA, 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 HFCL Pvt. Ltd. Ghazipur.

On the request of M/S HFCL Pvt. Ltd. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 17.Jan.2025.

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 = 17.90 Ohms.

Drilling Water Resistivity = 18.21 Ohms.

Approx Water Level = 6 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	39 - 51	12	Medium sand	Good
2.	55 - 63	8	Medium sand	Good
3.	67 - 72	5	Medium sand	Good
4.	76 - 79	3	Fine to Medium sand	Good
5.	80 - 83	3	Fine sand	Good
6.	103 - 107	4	Medium sand	Good
7.	117 - 130	13	Medium sand	Good
8.	141 - 148	7	Medium sand & kankar	Good
9.	150 - 155	5	Medium sand & kankar	Good

Note :- 1. Please ensure pre-monsoon water level before lower the well assembly  
2. Clay kankar is present in depth 7-38, 52-54, 64-66, 73-75, 84-102, 108-116, 131-140 and 156 Mtr bgl to till depth logged.





