

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A- 2554

Date:- 28-01-2024

### NAME OF SITE

GRAM PANCHAYAT- Usai

BLOCK- Bhadaura

DISTT- Ghazipur

### NAME OF AGENCY

M/s HFCL Pvt. 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- USAI, BLOCK- BHADAURA, DISTT- GHAZIPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 192 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 28.Jan.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 = 13.19 Ohms.

Drilling Water Resistivity = 17.09 Ohms.

Approx Water Level = 6 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	40 - 50	10	Fine to medium sand & kankar	Good
2.	55 - 59	4	Fine to medium sand	Good
3.	70 - 73	3	Fine to medium sand	Good
4.	75 - 78	3	Fine sand	Good
5.	90 - 99	9	Fine sand	Good
6.	111 - 116	5	Fine to Medium sand	Good
7.	124 - 131	7	Medium sand & kankar	Good
8.	145 - 160	15	Medium sand	Good
9.	170 - 175	5	Medium sand	Good
10.	179 - 185	6	Medium sand	Good

Note : 1. Please ensure pre-monsoon water level before lower the well assembly  
2. Predominated clay is present in depth range 10-35, 100-104, 132-141 and 161-165 mtr bgl.  
3. Clay kankar is present in depth range 51-54, 60-69, 79-89, 117-122, 186 Mtr bgl to till depth logged.



