

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-2454

Date:- 01-12-2023

### NAME OF SITE

GRAM PANCHAYAT- Gehudi & Maihudeenpur Zone- B  
BLOCK- Mardah & Kasimanad 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- GEHUDI & MAIDEENPUR ZONE -B,  
BLOCK- MARDAH & KASHIMABAD, DISTT- GHAZIPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 340 mtrs. depth. and Logged depth 331 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 01.Dec.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 = 12.74 Ohms.

Drilling Water Resistivity = 12.05 Ohms.

Approx Water Level = 6 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	20 - 22	2	Fine sand	Mod to Good
2.	29 - 32	3	Fine sand	Mod to Good
3.	86 - 97	11	Fine to Medium sand	Good
4.	267 - 280	13	Medium sand	Good
5.	309 - 330	21	Fine to Med sand & kan	Mod to Good

- Note :
1. Please ensure pre-monsoon water level before lower the well assembly
  2. Clay kankar is present in depth range 61-73, 132-140, 290-299, 304-308 Mtr bgl.
  3. Predominated clay is present in depth range 23-28, 33-37, 64-85 mtr bgl.
  4. Quality Of Ground water is deteriorating Marginally Saline in between 40-60, 120-261 Mtr bgl.





Rho a  
 NI6 (SN)  
 NI64(LN)  
 LAT  
 Logging Details:  
 Logging of geophysical  
 bore master east geosol  
 UP 1000 NG  
 01 Dec 2023  
 14.25  
 unsharp geosol (g)  
 Logger S No:  
 IGS/S/02/23-24  
 Logger Mode:  
 DMPL-2  
 Logger Orient by:  
 Ground Water  
 Survey Consultancy  
 Agra UP India

