

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B-2312

Date:- 04-11-2023

### NAME OF SITE

GRAM PANCHAYAT- Fatehpur

BLOCK- Sadar

DISTT- Ghazipur

### NAME OF AGENCY

M/s L&T 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- FATEHPUR, BLOCK- SADAR, DISTT- GHAZIPUR UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 173 mtrs. at above site. Was drilled by M/s L & T. Ghazipur.

On the request of M/s L & T. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 04.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 = 09.43 Ohms.

Drilling Water Resistivity = 12.07 Ohms.

Approx Water Level = 9 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	10 - 25	10	Medium sand	Good
2.	31 - 42	11	Medium sand	Good
3.	68 - 79	11	Medium sand	Good
4.	84 - 97	13	Medium sand	Good
5.	115 - 130	15	Fine to Medium sand	Good
6.	142 - 150	8	Fine sand	Moderate

Note :- 1.Please ensure pre-monsoon water level before lower the well assembly

2. Quality Of Ground water is deteriorating Marginally Saline in below 155 Mtr bgl to till depth logged.

3. Predominated clay is present in depth range 137 to 141 mtr bgl.



**Rho a**  
 NI6 (SN)  
 N64(LN)  
 LAT  
**Logging Details:**  
 Logging geotechnical  
 1800 018 01 02 01  
 UP CGGNC/0  
 04 Nov 2013  
 14.45  
 User: gamma (g)

Logger S/N: IGIS/S/02/23-24  
 Logger Model:  SP (m V)  
 DMP/L-2  
 Logger Owned by:  
 Ground Water Survey Consultancy  
 Agra UP India

