

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B-2718

Date:- 23-12-2023

### NAME OF SITE

GRAM PANCHAYAT- Mahali

BLOCK- Zamania

DISTT- Ghazipur

### NAME OF AGENCY

M/s L&T Ghazipur



## GROUND WATER SURVEY CONSULTANCY

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

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

Ground Water Survey Consultancy



600/60  
1/100  
46m 3

Q=450  
500 x 450  
60 + 102 + 18

# REPORT ON GEOPHYSICAL WELL LOGGING AT

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

## Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 200 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 23.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 = 17.08 Ohms.

Drilling Water Resistivity = 18.10 Ohms.

Approx Water Level = 12 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	35 - 37	2	Fine sand	Mod to Good
2.	40 - 50	10	Fine to Medium sand	Good
3.	70 - 73	3	Fine to Medium sand	Good
4.	76 - 83	7	Fine to medium sand	Good
5.	89 - 95	6	Medium sand	Good
6.	100 - 105	5	Fine sand	Mod to Good
7.	110 - 113	3	Fine to medium sand	Mod to Good
8.	116 - 120	4	Fine to medium sand	Good
9.	125 - 139	14 - 12	Medium sand	Good
10.	143 - 147	4 -	Fine to medium sand	Good
11.	151 - 165	14 - 8	Medium sand & kankar	Good
12.	172 - 175	3	Medium sand	Good

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

2. Clay kankar is present in depth range 48-49, 51-69, 84-88, 96-99, 106-109, 114-115, 121-124, 140-142-148-150, 166-171 and 176 Mtr bgl to till depth logged.

BP = 6m

(151.50 - 157.50)

