

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHODHUPUR TW NO. 2 ZONE- 4, ZONE -3, BLOCK- JAKHANIYA,  
DISTT- GHAZIPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 360 mtrs. depth. and Logged depth 358 mtrs. at above site. Was drilled by M/s VSA Infra Pvt. Ltd. Ghazipur.

On the request of M/s VSA Infra Pvt. Ltd. Ghazipur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 14.Mar.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 = 13.09 Ohms.

Drilling Water Resistivity = 14.90 Ohms.

Approx Water Level = 9 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	12 - 17	5	Medium sand	Good
2.	20 - 23	3	Medium sand	Good
3.	30 - 34	4	Medium sand & kankar	Good
4.	52 - 56	4	Medium sand	Good
5.	58 - 64	6	Medium sand	Good
6.	197 - 209	12	Fine to Medium sand	Moderate
7.	247 - 261	14	Medium sand	Mod to Good
8.	272 - 285	13	Medium sand	Mod to Good

- Note :- 1. Please ensure pre-monsoon water level before lower the well assembly  
2. Clay kankar is present in depth range 18-19, 24-29, 35-51, 63-129, 163-196, 210-246, 262-271 and 286 Mtr bgl to till depth logged.  
3. Quality Of Ground water is deteriorating Marginally Saline in below 130-162, Mtr bgl to till depth logged.

  
Geologist