

# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BARAHI TW NO.2 ZONE-4, BLOCK- MARDAH, DISTT- GHAZIPUR  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 199 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 19.Mar.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 = 16.09 Ohms.

Drilling Water Resistivity = 15.90 Ohms.

Approx Water Level = 6 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	16 - 20	4	Medium sand	Good
2.	25 - 27	2	Fine sand	Good
3.	32 - 37	5	Fine to medium sand	Good
4.	45 - 47	2	Fine sand	Good
5.	56 - 64	8	Fine to medium sand	Good
6.	75 - 85	10	Medium sand	Good
7.	95 - 100	5	Fine sand	Moderate

Note :- 1. Please ensure pre-monsoon water level before lower the well assembly  
2. Predominated clay is present in depth range 21-24, 38-44, 48-55 and 65-74 mtr bgl.  
3. Clay kankar is present in depth range 28-31, 86-94 and 101 Mtr bgl to till depth logged.

