

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-A-2229

Date:- 26-11-2023

NAME OF SITE

GRAM PANCHAYAT- Vitaniha Zone -B BLOCK- Shivpur DISTT- Bahraich

NAME OF AGENCY

Gyan Scientific Traders (India) Pvt. Ltd.
Bahraich



GROUND WATER SURVEY CONSULTANCY

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

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- VITANIHA ZONE -B, BLOCK- SHIVPUR, DISTT- BAHRAICH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 300 mtrs. depth. and Logged depth 275 mtrs. at above site. Was drilled by M/s Gyan Scientific Traders (India) Pvt. Ltd., Bahraich.

On the request of M/s Gyan Scientific Traders (India) Pvt. Ltd., Bahraich. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 26.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 = 19.26 Ohms.

Drilling Water Resistivity = 20.60 Ohms.

Approx Water Level = 5 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 28	18	Fine to Medium sand	
4.	28 - 50	12	Clay kankar	
5.	50 - 58*	8	Medium sand	Good
6.	58 - 79	19	Sand & kankar	
7.	79 - 101*	22	Medium sand	Good
8.	101 - 121	20	Clay kankar	
9.	121 - 132*	11	Medium sand	Good
10.	132 - 150	18	Clay kankar	
11.	150 - 160	10	Kankar with sand	
12.	160 - 170*	10	Medium sand	Good
13.	170 - 175	5	Clay kankar	
14.	175 - 208*	33	Medium sand	Good
15.	208 - 215	7	Clay kankar	
16.	215 - 220*	5	Medium sand	Good
17.	220 - 223	3	Clay kankar	
18.	223 - 238*	15	Medium sand	Good
19.	238 - 242	4	Clay kankar	
20.	242 - 270*	28	Medium sand	Good
21.	270 - 275	5	Clay kankar	

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Good.
4. It is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
5. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.



N 16(SN)
 N 64 (LN)
 LAT

Location: Logging in Varanasi Zone
 8 Block, Sector 20m
 Barabanki
 Log No: U/L/LOGS/MS/4
 Date: 22 Nov 2023
 Time: 11:47
 Company: Uninor, Gurgaon, Haryana
 Invt. Deptt

Logger S No: IG/S/S/01/21-22

SP
 Logger Model: DMPL-2
 Logger Owned By:

GROUND WATER SURVEY CONSULTANCY AGRA, UP, India

