

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-B-2780

Date:- 29-12-2023

NAME OF SITE

GRAM PANCHAYAT- Basantpur Kalika BLOCK- Nawabganj DISTT- Bahraich

NAME OF AGENCY

Gyan Scientific Traders (India) Pvt. Ltd.
Bahraich

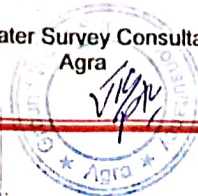


GROUND WATER SURVEY CONSULTANCY

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT-BASANTPUR KALIKA, BLOCK- NAWABGANJ, DISTT- BAHRAICH UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 220 mtrs. depth. and Logged depth 212 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 29.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 = 19.43 Ohms.

Drilling Water Resistivity = 20.78 Ohms.

Approx Water Level = 3 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 16	11	Clay kankar	
3.	16 - 25	9	Medium sand	Good
4.	25 - 30	5	Clay kankar	
5.	30 - 33	3	Fine sand	Good
6.	33 - 45	12	Clay kankar	
7.	45 - 54	9	Medium sand	Good
8.	54 - 81	27	Clay kankar	
9.	81 - 86*	5	Gravel & Course sand	Good
10.	86 - 90	4	Clay kankar	
11.	90 - 95*	5	Gravel & Course sand	Good
12.	95 - 100	5	Clay kankar	
13.	100 - 109*	9	Fine to Medium sand	Good
14.	109 - 119	10	Clay kankar	
15.	119 - 132*	13	Medium sand	Good
16.	132 - 145	13	Clay kankar	
17.	145 - 158*	13	Medium sand	Good
18.	158 - 177	19	Clay kankar	
19.	177 - 202*	25	Medium sand & kankar	Good
20.	202 - 212	10	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.



