GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B-2875

Date:- 11-01-2024

NAME OF SITE

GRAM PANCHAYAT- Mirzapur Tilak

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- MIRZAPUR TILAK, BLOCK- NAWABGANJ, DISTT- BAHRAICH UNDER

JAL JIVAN MISSION

Introduction:

A Deep bore hole was drilled 220 mtrs. depth. and Logged depth 220 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 11.Jan.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 = 19.27 Ohms.

Drilling Water Resistivity = 19.07 Ohms.

Approx Water Level = 11 Mtr

S.No.	Depth	Thickness(m)	Lithology	Expected
	range(m)			Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 16	11	Clay kankar	
3.	16 - 20	4	Fine sand	
4.	20 - 25	5	Clay kankar	
5	25 - 30	5	Fine sand	
6.	30 - 40	10	Clay kankar	
7.	40 - 43	3	Fine to Medium sand	Good
8.	43 - 60	17	Clay kankar	
9.	60 - 63	3	Fine sand	Good
10.	63 - 72	9	Clay kankar	
11.	72 - 83*	11	Gravel & Course sand	Good
12.	83 - 92	9	Clay kankar	
13.	92 - 104*	12	Medium sand	Good
14.	104 - 109	5	Clay kankar	
15.	109 - 111	2	Fine to Medium sand	Good
16.	111 - 118	7	Clay kankar	
17.	118 - 125*	7	Fine to Medium sand	Good
18.	125 - 134	9	Clay kankar	
19.	134 - 150*	16	Medium sand	Good
20.	150 - 155	5	Clay kankar	
21.	155 - 158*	3	Fine to Medium sand	Good
22.	158 - 166	8	Clay kankar	
23.	166 - 169	3	Fine sand	Good
24.	169 - 177	8	Clay kankar	
25.	177 - 187*	10	Fine to Medium sand	
26.	187 - 220	33	Clay kankar	

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Conclusions and Recommendations:

- 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.
- 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.





