

**GROUND WATER SURVEY CONSULTANCY**  
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL  
ELECTOLOGGING REPORT**

Ref No:-B-2880

Date:- 11-01-2024

**NAME OF SITE**

GRAM PANCHAYAT- Majha Dariya Khurd      BLOCK- Shivpur      DISTT- Bahraich

**NAME OF AGENCY**

M/s Gyan Scientific Traders (India) Pvt. Ltd.  
Bahraich



**GROUND WATER SURVEY CONSULTANCY**  
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.  
112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006  
(M) : 9412260823, 9794625420, 9761163000, Email : gwsc\_agra@yahoo.com

**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- MAJHA DARIYA KHURD, BLOCK- SHIVPUR, DISTT- BAHRAICH  
UNDER

JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 300 mtrs. depth. and Logged depth 300 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:-

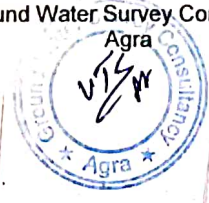
Mud Resistivity = 15.18 Ohms.

Drilling Water Resistivity = 21.41 Ohms.

Approx Water Level = 2 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 8	3	Clay kankar	
3.	8 - 20	12	Fine to Medium sand	Good
4.	20 - 32	12	Clay kankar	
5.	32 - 42	10	Medium sand	Good
6.	42 - 51	9	Clay kankar	
7.	51 - 60	9	Fine sand	Good
8.	60 - 81	21	Clay kankar	
9.	81 - 87*	6	Fine to Medium sand	Good
10.	87 - 92	5	Clay kankar	
11.	92 - 100*	8	Fine to Medium sand	Good
12.	100 - 113	13	Clay kankar	
13.	113 - 120*	7	Fine to Medium sand	Good
14.	120 - 126	6	Clay kankar	
15.	126 - 142*	16	Gravel & Medium sand	Good
16.	142 - 152	10	Clay kankar	
17.	152 - 190*	38	Medium sand	Good
18.	190 - 200	10	Kankar	
19.	200 - 215*	15	Gravel & Medium sand	Good
20.	215 - 228	13	Clay kankar	
21.	228 - 241*	13	Gravel & Medium sand	Good
22.	241 - 251	10	Clay kankar	
23.	251 - 253	2	Fine sand	Good
24.	253 - 260	7	Clay kankar	
25.	260 - 263	3	Fine sand	Good
26.	263 - 270	7	Clay kankar	
27.	270 - 276*	6	Medium sand	Good
28.	276 - 282	6	Clay kankar	
29.	282 - 287	5	Fine to Medium sand	Good
30.	287 - 292	5	Clay kankar	
31.	292 - 298	6	Fine sand	Good
32.	298 - 300	2	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.



**Geologist**

