

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-2402

Date:- 24-11-2023

NAME OF SITE

GRAM PANCHAYAT- Tigra Zone -A

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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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- TIGRA ZONE -A, 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 24.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 = 20.39 Ohms.

Drilling Water Resistivity = 21.63 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 - 30	25	Clay kankar	
3.	30 - 50	20	Medium sand	Good
4.	50 - 58	8	Clay kankar	
5.	58 - 70	12	Fine to Medium sand	Good
6.	70 - 76	6	Clay kankar	
7.	76 - 88*	12	Fine to Medium sand	Good
8.	88 - 94	6	Clay kankar	
9.	94 - 100*	6	Fine to Medium sand	Good
10.	100 - 112	12	Clay kankar	
11.	112 - 124*	12	Medium sand	Good
12.	124 - 132	8	Clay kankar	
13.	132 - 141*	9	Medium sand	Good
14.	141 - 150	9	Clay kankar	
15.	150 - 197*	47	Medium sand	Good
16.	197 - 200	3	Clay kankar	
17.	200 - 214*	14	Medium sand	Good
18.	214 - 220	6	Clay kankar	
19.	220 - 242*	22	Medium sand	Good
20.	242 - 260	18	Clay kankar	
21.	260 - 263	3	Fine sand	Good
22.	263 - 275	12	Clay kankar	
23.	275 - 288*	13	Fine to Medium sand	Good
24.	288 - 300	12	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



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Rho a
 N 16(SN)
 N 64 (LN)
 LAT
 Location:
 Logging VI Tera Zone A
 Block - Sambaour Distt:
 Bahraich
 Log No.:
 UP LOGGING Co
 Date:
 24 Nov 2023
 Time:
 15:50
 Operator:
 Ushraj Gupta (CS)
 Well Depth:
 Logger S No:
 IGS/S/01/21-22
 Logger Model:
 SP
 DMP1-2
 Logger Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP, India

