

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-A-2537

Date:- 22-01-2024

### NAME OF SITE

GRAM PANCHAYAT- Valdu Purwa Zone -2      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.  
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**ISO ; 9001 : 2015**

Ground Water Survey Consultancy  
Agra



# REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- VALDU PURWA ZONE -2, BLOCK- SHIVPUR, DISTT- BAHRAICH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 300 mtrs. depth. and Logged depth 290 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 22.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:-

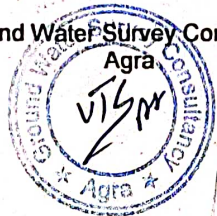
Mud Resistivity = 11.82 Ohms.

Drilling Water Resistivity = 25.98 Ohms.

Approx Water Level = 2.5 Mtr

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Clay kankar	
3.	15 - 22	7	Medium sand	
4.	22 - 33	11	Clay kankar	
5.	33 - 38	5	Medium sand	Good
6.	38 - 42	4	Clay kankar	
7.	42 - 55*	13	Medium sand	Good
8.	55 - 80	25	Clay kankar	
9.	80 - 89*	9	Medium sand	Good
10.	89 - 93	4	Clay kankar	
11.	93 - 105*	12	Medium sand & Gravel	Good
12.	105 - 116	11	Clay kankar	
13.	116 - 130*	14	Medium sand & Gravel	Good
14.	130 - 134	4	Clay kankar	
15.	134 - 145*	11	Medium sand & Gravel	Good
16.	145 - 150	5	Clay kankar	
17.	150 - 160*	10	Medium sand	Good
18.	160 - 162	2	Clay kankar	
19.	162 - 172*	10	Fine to Medium sand	Good
20.	172 - 204	32	Fine sand	
21.	204 - 210*	6	Medium sand	Good
22.	210 - 220	10	Clay kankar	
23.	220 - 228*	8	Medium sand & Gravel	Good
24.	228 - 241	13	Fine sand & kankar	
25.	241 - 254	13	Clay kankar	
26.	254 - 261*	7	Medium sand	Good
27.	261 - 276	15	Clay kankar	
28.	276 - 282*	6	Medium sand	Good
29.	282 - 290	8	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.



Location: Logging V/VARUN Purna  
 Zone 2 Block-5 Nagar  
 Dist- Banwar  
 Log No: 09 LOGSINGAR  
 Date: 22 Jan 2024  
 Time: 11:43  
 Operator: Uttara Gada (S)  
 Well Depth:

Logger SI No: IGIS/S/02/22-23

Rho a  
 N 16(SN)  
 N 64 (LN)  
 LAT

Logger Model: SP  
 DMPL-2  
 Logger Owned by:

GROUND WATER  
 SURVEY  
 CONSULTANCY  
 AGRA, UP, INDIA

