

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B-2817

Date:- 03-01-2024

NAME OF SITE

GRAM PANCHAYAT- Patkhauri

BLOCK- Sirsiya

DISTT- Shravasti

NAME OF AGENCY

M/s Vishwanath Project Limited
Shravasti



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

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING
AT
GRAM PANCHAYAT- PATKHAULI, BLOCK- SIRSIYA, DISTT- SHRAVASTI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 165 mtrs. at above site. Was drilled by M/s Vishwanath Project Limited, Shravasti.

On the request of M/s Vishwanath Project Limited, Shravasti. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 03.Jan.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 = 19.87 Ohms.

Drilling Water Resistivity = 20.66 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 - 8	3	Clay kankar	
3.	8 - 13	5	Fine sand	
4.	13 - 20	7	Clay kankar	
5.	20 - 23	3	Fine sand	
6.	23 - 30	7	Clay kankar	
7.	30 - 35	5	Fine sand	
8.	35 - 50	15	Clay kankar	
9.	50 - 53*	3	Fine to Medium sand	Good
10.	53 - 63	10	Clay kankar	
11.	63 - 75*	12	Medium sand	Good
12.	75 - 80	5	Clay kankar	
13.	80 - 82	2	Fine sand	Good
14.	82 - 87	5	Clay kankar	
15.	87 - 89	2	Fine sand	Good
16.	89 - 96	7	Clay kankar	
17.	96 - 102	6	Fine sand & kankar	Good
18.	102 - 110	8	Clay kankar	
19.	110 - 117*	7	Fine to Medium sand	Good
20.	117 - 155	38	Clay kankar	
21.	155 - 158*	3	Fine to Medium sand	Good
22.	158 - 165	7	Clay kankar	

Ground Water Survey Consultancy

Agra



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.



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

Location: Logging V. Sreeraj,
 Block: Sriraj Dist-
 Srirajst
 Log No.: UP LOGS/NGSP
 Date: 03 Jan 2024
 Time: 11:36
 Operator: Umesh Gupta (US)
 Wt. Dept.

Logger S. No.: IGIS/S/01/21-22

SP
 Logger Model: DMR-L-2
 Logger Owned by:

GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP, India

