

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-3108

Date:- 20-02-2024

### NAME OF SITE

GRAM PANCHAYAT- Siganiya

BLOCK- Gilaula

DISTT- Shravasti

### NAME OF AGENCY

M/s Vishwanath Project Limited  
Shravasti



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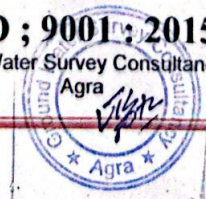
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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- SIGANIYA, BLOCK- GILAULA, 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 20.Feb.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 = 09.95 Ohms.

Drilling Water Resistivity = 14.34 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 - 26         | 21           | Clay kankar  |                        |
| 3.    | 26 - 41        | 15           | Medium sand  | Good                   |
| 4.    | 41 - 47        | 6            | Clay kankar  |                        |
| 5.    | 47 - 50        | 3            | Fine sand    | Good                   |
| 6.    | 50 - 60        | 10           | Clay kankar  |                        |
| 7.    | 60 - 72*       | 12           | Medium sand  | Good                   |
| 8.    | 72 - 77        | 5            | Clay kankar  |                        |
| 9.    | 77 - 90*       | 13           | Medium sand  | Good                   |
| 10.   | 90 - 95        | 5            | Clay kankar  |                        |
| 11.   | 95 - 100       | 5            | Fine sand    | Good                   |
| 12.   | 100 - 106      | 6            | Clay kankar  |                        |
| 13.   | 106 - 115*     | 9            | Medium sand  | Good                   |
| 14.   | 115 - 120      | 5            | Clay kankar  |                        |
| 15.   | 120 - 140*     | 20           | Medium sand  | Good                   |
| 16.   | 140 - 158      | 18           | Clay kankar  |                        |
| 17.   | 158 - 165*     | 7            | Medium sand  | Good                   |

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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.

