

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-1278

Date:- 13-07-2023

### NAME OF SITE

GRAM PANCHAYAT- Kundra

BLOCK- Salarpur

DISTT- Badaun

### NAME OF AGENCY

M/s PNC-SPML-JV  
Badaun



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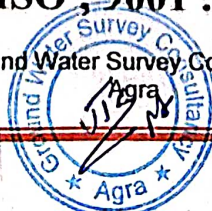
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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**ISO : 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- KUNDRA, BLOCK- SALARPUR, DISTT.- BADAUN UNDER JAL JIVAN MISSION

### Introduction :

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Badaun.

On the request of M/S PNC-SPML-JV, Badaun. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 13.July.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:-

| S.No. | Depth range(m) | Thickness(m) | Lithology           | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1.    | 0 - 5          | 5            | Surface soil        |                        |
| 2.    | 5 - 10         | 5            | Dry sand            |                        |
| 3.    | 10 - 16        | 6            | Fine sand           |                        |
| 4.    | 16 - 20        | 4            | Clay kankar         |                        |
| 5.    | 20 - 28        | 8            | Fine to Medium sand | Medium                 |
| 6.    | 28 - 34        | 6            | Clay kankar         |                        |
| 7.    | 34 - 60*       | 26           | Medium sand         | Medium                 |
| 8.    | 60 - 65        | 5            | Clay kankar         |                        |
| 9.    | 65 - 72*       | 7            | Medium sand         | Medium                 |
| 10.   | 72 - 80        | 8            | Clay kankar         |                        |
| 11.   | 80 - 83        | 3            | Fine sand           | Medium                 |
| 12.   | 83 - 90        | 7            | Clay kankar         |                        |
| 13.   | 90 - 96*       | 6            | Fine to Medium sand | Medium                 |
| 14.   | 96 - 103       | 7            | Clay kankar         |                        |
| 15.   | 103 - 116*     | 13           | Medium sand         | Medium                 |
| 16.   | 116 - 120      | 4            | Clay kankar         |                        |
| 17.   | 120 - 122      | 2            | Fine sand           | Medium                 |
| 18.   | 120 - 130      | 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 tubewell.
3. The Quality of water is expected Medium.
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.

**Geophysicist**



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