# GROUND WATER SURVEY CONSULTANCY GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A-509

Date:- 22-03-2023

NAME OF SITE

GRAM PANCHAYAT - Ghilaur

BLOCK- Dataganj DISTT- Badaun

#### NAME OF AGENCY

M/s PNC-SPML-JV Badaun



#### 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

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### REPORT ON GEOPHYSICAL WELL LOGGING AT

## GRAM PANCHAYAT- GHILAUR, BLOCK- DATAGANJ, DISTT- BADAUN UNDER JAL JIVAN MISSION

#### Introduction :

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A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 120 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 in the above bore hole using IGIS Well Logger on 22.Mar.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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     | Thickness(m) | Lithology    | Expected      |
|----------|-----------|--------------|--------------|---------------|
|          | range(m)  |              |              | Water Quality |
| 1        | 0 - 5     | 5            | Surface soil |               |
| 2.       | 5 - 8     | 3            | Dry sand     |               |
| 3.       | 8 - 15    | 7            | Fine sand    |               |
| 4.       | 15 - 20   | 5            | Clay kankar  |               |
| 5.       | 20 - 35   | 15           | Medium sand  | Medium        |
| 6.       | 35 - 40   | 5            | Clay kankar  |               |
| 7.       | 40 - 63*  | 23           | Medium sand  | Medium        |
| 8.       | 63 - 73   | 10           | Clay kankar  |               |
| <u> </u> | 73 - 77   | 4            | Fine sand    | Medium        |
| 10.      | 77 - 83   | 6            | Clay kankar  |               |
| 11.      | 83 - 87*  | 4            | Medium sand  | Medium        |
| 12.      | 87 - 90   | 3            | Clay kankar  |               |
| 12.      | 90 - 110* | 20           | Medium sand  | Medium        |
| 13.      | 110 - 120 | 10           | Clay kankar  |               |

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### **Conclusions and Recommendations :-**

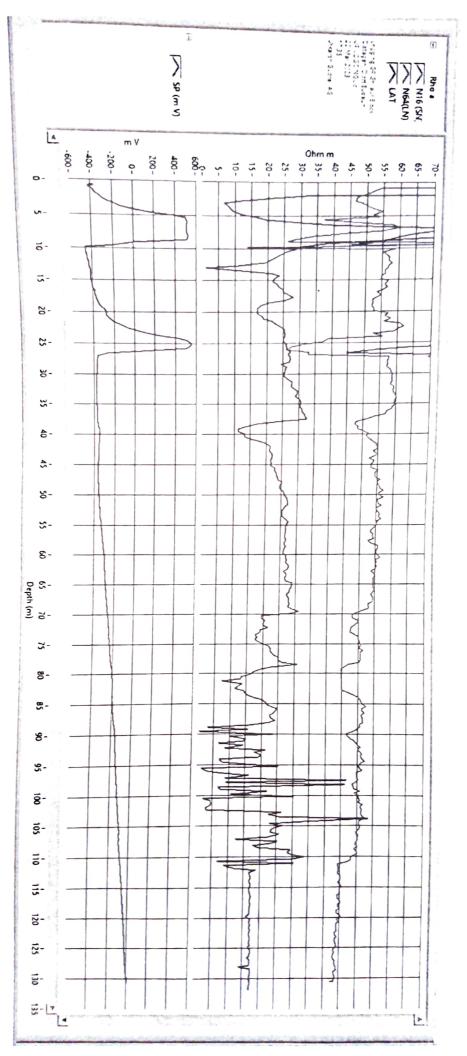
- 1. The Lithology broadly tallies with that of drill cutting starta chart.
- 2. The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
- 3. The Quality of water is expected Medium.
- 4. It is recommended to have a chemical and bacteriological analysis of 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.



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