

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Ref No:-A-2086

Date:- 02-11-2023

NAME OF SITE

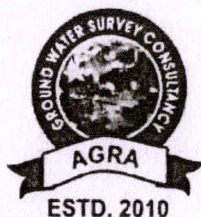
GRAM PANCHAYAT- Ghabiayi

BLOCK- Jagat

DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



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-GHABIAYI, BLOCK- JAGAT, 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 in the above bore hole using IGIS Well Logger on 02.Nov.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 - 15 | 10 | Dry sand | |
| 3. | 15 - 29 | 14 | Clay kankar | |
| 4. | 29 - 54* | 25 | Medium sand | Medium |
| 5. | 54 - 63 | 9 | Clay kankar | |
| 6. | 63 - 85* | 22 | Medium sand & kankar | Medium |
| 7. | 85 - 90 | 5 | Clay kankar | |
| 8. | 90 - 96* | 6 | Medium sand | Medium |
| 9. | 96 - 106 | 10 | Clay kankar | |
| 10. | 106 - 110* | 4 | Fine to Medium sand | Medium |
| 11. | 110 - 115 | 5 | Clay kankar | |
| 12. | 115 - 117* | 2 | Fine to Medium sand | Medium |
| 13. | 117 - 130 | 13 | 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 tube well.
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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Rhos a
 N 16(SN)
 N 64(LN)
 LAT

Location:
 1057y 03 (Gra 4)
 5001 7941 Dm 1200m
 Log No:
 DOWN: 056615300m
 Date:
 02 Nov 2023
 Time:
 18:18
 Observer:
 Vikram Gupta AGI
 No. Desc:

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

Logger Model:
 SP

Logger Model:
 DMPL-2

Logger Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP, India

