

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A-2170

Date:- 07-11-2023

NAME OF SITE

GRAM PANCHAYAT- Mohammad Nagar Sulara
DISTT- Badaun

BLOCK- Jagat

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



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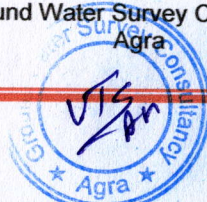
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MOHAMMAD NAGAR SULARA, BLOCK- JAGAT, DISTT- BADAUN
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 145 mtrs. depth. and Logged depth 140 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 07.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 - 8 | 3 | Clay kankar | |
| 3. | 8 - 18 | 10 | Medium sand | Medium |
| 4. | 18 - 30 | 12 | Clay kankar | |
| 5. | 30 - 35 | 5 | Sandy clay | |
| 6. | 35 - 40 | 5 | Clay kankar | |
| 7. | 40 - 48 | 8 | Fine sand | Medium |
| 8. | 48 - 52 | 4 | Clay kankar | |
| 9. | 52 - 57 | 5 | Fine sand | Medium |
| 10. | 57 - 60 | 3 | Clay kankar | |
| 11. | 60 - 70* | 10 | Medium sand | Medium |
| 12. | 70 - 81 | 11 | Clay kankar | |
| 13. | 81 - 90* | 9 | Medium sand | Medium |
| 14. | 90 - 96 | 6 | Clay kankar | |
| 15. | 96 - 108* | 12 | Medium sand | Medium |
| 16. | 108 - 116 | 8 | Clay kankar | |
| 17. | 116 - 125* | 9 | Fine to Medium sand | Medium |
| 18. | 125 - 140 | 15 | 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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Rho a
 N 16(SN)
 N 6d (LN)
 LAT
 Location: Logging Gd Mohamud
 Nagar, Saura Bocklagat
 Distt. Indran
 Log No.: UP LOGGINGUP
 Date: 07 Nov 2023
 Time: 17:52
 Observer: Utkarsh Gupta (AG)
 Well Depth:

Logger SI No.:
 (GIS/S/01/21-22)

Logger Model: SP

DMP1-2

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

