

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-B- 1753

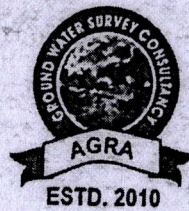
Date:- 19-09-2023

NAME OF SITE

GRAM PANCHAYAT- Ikh Kheda Gopalpur BLOCK- Islamnagar DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



GROUND WATER SURVEY CONSULTANCY
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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- IKH KHEDA GOPALPUR, BLOCK- ISLAMNAGAR, DISTT- BADAUN
UNDER
JAL JIVAN MISSION

Introduction :

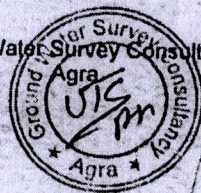
A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Badaun.

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 19.Sep.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 - 16 | 11 | Dry sand | |
| 3. | 16 - 26 | 10 | Clay kankar | |
| 4. | 26 - 30 | 4 | Fine sand | |
| 5. | 30 - 35 | 5 | Clay kankar | |
| 6. | 35 - 41 | 6 | Fine to Medium sand | Med to Good |
| 7. | 41 - 64 | 23 | Clay kankar | |
| 8. | 64 - 85* | 21 | Medium sand & kankar | Med to Good |
| 9. | 85 - 98 | 13 | Clay kankar | |
| 10. | 98 - 112* | 14 | Medium sand | Med to Good |
| 11. | 112 - 123 | 11 | Clay kankar | |
| 12. | 123 - 130* | 7 | Fine to Medium sand | Med to 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 tubewell.
3. The Quality of water is expected Medium to 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.

Geophysicist



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