

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS. GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTOLOGGING REPORT

Ref No:-B-527

Date:-18-05-2023

NAME OF SITE

GRAM PANCHAYAT- Chittri

BLOCK- Mion

DISTT- Badaun

NAME OF AGENCY

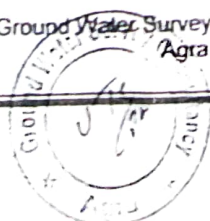
M/s PNC-SPML-JV
Badaun



GROUND WATER SURVEY CONSULTANCY
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ISO ; 9001 : 2015

Ground Water Survey Consultancy
Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- CHITTRI, BLOCK- MION, DISTT- BADAUN
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 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 in the above bore hole using IGIS Well Logger on 18.May.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 - 20 | 15 | Fine sand | |
| 3. | 20 - 24 | 4 | Clay kankar | |
| 4. | 24 - 38 | 14 | Fine to Medium sand | Good |
| 5. | 38 - 44 | 6 | Clay kankar | |
| 6. | 44 - 48 | 4 | Fine sand | Good |
| 7. | 48 - 50 | 2 | Clay kankar | |
| 8. | 50 - 77* | 27 | Medium sand & kankar | Good |
| 9. | 77 - 81 | 4 | Clay kankar | |
| 10. | 81 - 88* | 7 | Fine to Medium sand | Good |
| 11. | 88 - 94 | 6 | Clay kankar | |
| 12. | 94 - 128* | 34 | Fine to Medium sand & kankar | Good |
| 13. | 128 - 132 | 4 | Clay kankar | |
| 14. | 132 - 137 | 5 | Fine sand | Good |
| 15. | 137 - 140 | 3 | Clay kankar | |



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



Ground Water Survey Consultancy

Chitri

Page No.

Date

| Sr. No. | Date | Depth | | Sample Time | | Sample No. | Lithology |
|---------|----------|-------|----|-------------|------|------------|--------------------|
| | | From | To | Start | Time | | |
| 1 | 18/05/23 | 0 | 3 | | | 1 | Surface Soil |
| 2 | " | 3 | 6 | | | 2 | Fine Sand |
| 3 | " | 6 | 9 | | | 3 | Fine Sand |
| 4 | " | 9 | 12 | | | 4 | Fine Sand |
| 5 | " | 12 | 15 | | | 5 | Fine Sand |
| 6 | " | 15 | 18 | | | 6 | Fine Sand |
| 7 | " | 18 | 21 | | | 7 | clay KanKar |
| 8 | " | 21 | 24 | | | 8 | clay KanKar |
| 9 | " | 24 | 27 | | | 9 | Fine to Med. Sand |
| 10 | " | 27 | 30 | | | 10 | Fine to Med. Sand |
| 11 | " | 30 | 33 | | | 11 | Fine to Med. Sand |
| 12 | " | 33 | 36 | | | 12 | Fine to Med. Sand |
| 13 | " | 36 | 39 | | | 13 | clay KanKar |
| 14 | " | 39 | 42 | | | 14 | clay KanKar |
| 15 | " | 42 | 45 | | | 15 | Fine Sand |
| 16 | " | 45 | 48 | | | 16 | Fine Sand |
| 17 | " | 48 | 51 | | | 17 | clay KanKar |
| 18 | " | 51 | 54 | | | 18 | Med. Sand & KanKar |
| 19 | " | 54 | 57 | | | 19 | 4 |
| 20 | " | 57 | 60 | | | 20 | " |
| 21 | " | 60 | 63 | | | 21 | " |
| 22 | " | 63 | 66 | | | 22 | 4 |
| 23 | " | 66 | 69 | | | 23 | 4 |
| 24 | " | 69 | 72 | | | 24 | 11 |
| 25 | " | 72 | 75 | | | 25 | Med. Sand & KanKar |
| 26 | " | 75 | 78 | | | 26 | clay KanKar |
| 27 | " | 78 | 81 | | | 27 | clay KanKar |
| 28 | " | 81 | 84 | | | 28 | Fine to Med. Sand |
| 29 | 18/05/23 | 84 | 87 | | | 29 | Fine to Med. Sand |

| Sr.No. | Date | Depth | | Sample Time | | Sample No. | Lithology |
|--------|----------|-------|-----|-------------|-------|------------|-----------------------|
| | | From | To | Start | Close | | |
| 30 | 18/05/23 | 87 | 90 | | | 30 | clay Kanbar |
| 31 | " | 90 | 93 | | | 31 | clay Kan/corr |
| 32 | " | 93 | 96 | | | 32 | fine Mod. & Kanbar |
| 33 | " | 96 | 99 | | | 33 | " |
| 34 | " | 99 | 102 | | | 34 | " |
| 35 | " | 102 | 105 | | | 35 | " |
| 36 | " | 105 | 108 | | | 36 | " |
| 37 | " | 108 | 111 | | | 37 | " |
| 38 | " | 111 | 114 | | | 38 | " |
| 39 | " | 114 | 117 | | | 39 | " |
| 40 | " | 117 | 120 | | | 40 | " |
| 41 | " | 120 | 123 | | | 41 | " |
| 42 | " | 123 | 128 | | | 42 | fine to Mod. & Kanbar |
| 43 | " | 128 | 129 | | | 43 | clay Kanbar |
| 44 | " | 129 | 132 | | | 44 | clay Kanbar |
| 45 | " | 132 | 135 | | | 45 | fine sand |
| 46 | " | 135 | 138 | | | 46 | clay/canbar |
| 47 | 18/05/23 | 138 | 141 | | | 47 | clay Kanbar |