

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MAHADEVA LALA, BLOCK- NAUGARH,
DISTT- SIDDHARTH NAGAR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 200 mtrs. depth. and Logged depth 200 mtrs. at above site. Was drilled by M/s Shubham Enterprises, Siddharth Nagar.

On the request of M/s Shubham Enterprises, Siddharth Nagar. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 15.Dec.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:-

Mud Resistivity = 18.24 Ohms.

Drilling Water Resistivity = 19.53 Ohms.

Approx Water Level = 2 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|--------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 8 | 3 | Clay | |
| 3. | 8 - 13 | 5 | Fine sand | |
| 4. | 13 - 20 | 7 | Clay kankar | |
| 5. | 20 - 23 | 3 | Fine sand | |
| 6. | 23 - 54 | 31 | Clay kankar | |
| 7. | 54 - 58 | 4 | Fine sand | Mod to Good |
| 8. | 58 - 90 | 32 | Clay kankar | |
| 9. | 90 - 105* | 15 | Medium sand | Good |
| 10. | 105 - 117 | 12 | Clay kankar | |
| 11. | 117 - 123* | 6 | Medium sand | Good |
| 12. | 123 - 129 | 6 | Clay kankar | |
| 13. | 129 - 135* | 6 | Medium sand | Good |
| 14. | 135 - 145 | 10 | Clay kankar | |
| 15. | 145 - 155* | 10 | Medium sand | Good |
| 16. | 155 - 164 | 9 | Clay kankar | |
| 17. | 164 - 169* | 5 | Medium sand | Good |
| 18. | 169 - 186 | 17 | Clay kankar | |
| 19. | 186 - 192* | 6 | Medium sand | Good |
| 20. | 192 - 200 | 8 | Clay kankar | |

Ground Water Survey Consultancy

Agra

