

Ref : MTL/WL/22-23/ 65

Date 06.10.2022

REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

A deep borehole was drilled by working agency M/s. GVPR Engineers Limited as a part of their scope of work of development of Tubewell under Jal Jeevan Mission Project of SWSM, MTL conducted a Geophysical Resistivity logging in the above borehole.

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|----------------|-------------------|
| Village Name | Manikapur |
| Block | Umarda |
| District | Kannauj, U.P. |
| Drilling Depth | 200 Mtr BGL |
| Logged Depth | 199 Mtr BGL |
| Type of Log | S.P & Resistivity |
| Machine Used | IGIS |
| Logging Date | 06.10.2022 |

The following aquifer zones have been deciphered with the help of logging machine.

| Sr. No. | Depth Range(mtr BGL) | Thickness (mtr) | Expected Litholog | Expected Quality |
|---------|----------------------|-----------------|---------------------|------------------|
| 1 | 1 – 11 | | Top soil | |
| 2 | 12 – 19 | 7 | Fine Sand | Good |
| 3 | 20 – 21 | | Clay | |
| 4 | 22 – 24 | | Sand with Clay | |
| 5 | 25 – 33 | 10 | Fine Sand | Good |
| 6 | 34 – 35 | | Sand with Silt | |
| 7 | 36 – 44 | 8 | Medium Sand | Good |
| 8 | 45 – 46 | | Clay | |
| 9 | 47 – 50 | | Silty Sand | |
| 10 | 51 – 52 | | Clay | |
| 11 | 53 – 58 | | Sand with Silt | |
| 12 | 59 – 62 | | Clay with Silt | |
| 13 | 63 – 70 | | Silty Sand | |
| 14 | 71 – 87 | 16 | Medium to Fine Sand | Good |
| 15 | 88 – 115 | | Clay with Kankar | |
| 16 | 116 – 123 | 7 | Medium Sand | Good |
| 17 | 124 – 134 | | Clay with Silt | |
| 18 | 135 – 137 | | Kankar | |
| 19 | 138 – 145 | | Clay | |
| 20 | 146 – 150 | | Silty Sand | |
| 21 | 151 – 165 | | Clay with Silt | |
| 22 | 166 – 199 | | Clay | |

