



M/S E.R. TECHNOLOGIES

(Govt. Contractor of PH & Civil Works & Electrical Works)

(Specialist in: Deep Tube well, Sick Tube well, Geological and Hydro-Geological Survey, Electric Logging of Borehole, Videography of Borehole, Water Sample & Soil Testing etc.)

Dated.....29/12/2023.....

Ref.

REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE AURANGABAD MAFI BLOCK SALARPUR, DISTRICT BUDAUN, UTTAR PRADESH UNDER JAL JEEVAN MISSION

Introduction:

The borehole at the site was drilled to a depth of 130.00 meters, and the electric logging was conducted up to 130.00-meter depth using a continuous logger on Dec 29, 2023. The purpose of this logging was to assess the various subsurface strata and properties encountered during drilling, with a focus on resistivity measurements (LON -64" and SHN-16) and self-potential (SP) data. This report provides an analysis of the interpreted data and offers recommendations for further actions under the Jal Jeevan Mission.

Name of agency	Om Infra Pvt Ltd, UP Boaring & Pipe Store
Location	Aurangabad Mafi
Block	Salarpur
District	Budaun, U.P
Depth drilled (mbgl)	130
Depth logged (mbgl)	130
Water level (m)	10
LON -64" Resistivity (N-64)	Ohm.m (Blue)
SHN-16 Resistivity (N-16)	Ohm.m (Red)
Self-Potential (SP)	Mv (Green)

Village Aurangabad Mafi, Block Salarpur , District Budaun, U.P

Sr. No	Depth Range (m)		Zone Thickness (m)	LON -64" N Resistivity (ohm.m)	Probable Strata	Expected water Quality
	From	To				
1	0.00	5.00	5.00	>25	Top Soil	-
2	5.00	11.00	6.00	59	Medium Coarse Sand	-
3	11.00	16.00	5.00	16	Clay	-
4	16.00	24.00	8.00	69	Coarse Sand	-
5	24.00	28.00	4.00	25	Clay	-
6	28.00	50.00	22.00	73	Coarse Sand, Gravel	-
7	50.00	52.00	2.00	33	Clay	-
8	52.00	55.00	3.00	64	Coarse Sand	Good
9	55.00	56.50	1.50	58	Clay	-
10	56.50	76.00	19.50	74	Coarse Sand, Gravel	Good
11	76.00	80.00	4.00	28	Clay	-
12	80.00	89.00	9.00	68	Coarse Sand	Good
13	89.00	93.00	4.00	29	Clay	-
14	93.00	99.00	6.00	65	Coarse Sand	Good

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15	99.00	106.00	7.00	18	Clay	-
16	106.00	115.00	9.00	54	Medium Coarse Sand	Good
17	115.00	122.00	7.00	18	Clay	-
18	122.00	126.00	4.00	45	Fine Sand	-
19	126.00	130.00	4.00	19	Clay	-

Recommendations:

Based on the interpreted strata data from the electric logging, the following recommendations are provided:

1. Screen Installation:

It is recommended to install screens against the **bold-marked strata** indicated in the interpretation above. These screens will help facilitate water inflow from the identified permeable zones.

2. Expected Water Quality:

The expected water quality in the zones marked as "Good" is anticipated to be favorable.

3. Tubewell Development:

To optimize water yield, it is advised to develop the tubewell using a high-capacity air compressor.

Interpretation Done By...

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