



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.)

Ref.

Dated..... 09/10/2023

REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE LALPUR BIBI, BLOCK SUAR, DISRICT RAMPUR, 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 Aug 08, 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.

LOGGING DATA

Name of agency	PNC SPML JV , Jai Bhusan Malik
Location	Lalpur Bibi
Block	Suar
District	Rampur, 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)

Log Report of Lalpur Bibi, block Suar, district Rampur, Uttar Pradesh

Sr. No	Depth Range (m)		Zone Thickness(m)	LON -64" N Resistivity (ohm.m)	Probable Strata	Expected water Quality
	From	To				
1	0.00	3.00	3.00	>50	Top soil	-
2	3.00	9.00	6.00	49	Medium Sand	-
3	9.00	22.50	13.50	24	Clay	-
4	22.50	26.00	3.50	45	Medium Sand	-
5	26.00	30.00	4.00	22	Clay	-
6	30.00	33.50	3.50	55	Medium Coarse Sand	-
7	33.50	50.00	16.50	19	Clay	-
8	50.00	54.00	4.00	66	Coarse Sand	Good
9	54.00	60.00	6.00	23	Clay	-
10	60.00	66.50	6.50	66	Coarse Sand	Good
11	66.50	70.50	4.00	21	Clay	-
12	70.50	78.00	7.50	64	Coarse Sand	Good
13	78.00	80.50	2.50	21	Clay	-
14	80.50	85.50	5.00	73	Coarse Sand	Good
15	85.50	87.00	1.50	19	Clay	-

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16	87.00	90.00	3.00	76	Coarse Sand	Good
17	90.00	95.50	5.50	21	Clay	-
18	95.50	107.50	12.00	102	Coarse Sand ,Gravel	Good
19	107.50	110.00	2.50	33	Clay	-
20	110.00	115.00	5.00	71	Coarse Sand	Good
21	115.00	130.00	15.00	29	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.

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