



# 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.....22/12/2023.....

## REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE SARAI PASTOR, BLOCK SAMREN, DISRICT 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 22, 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	PNC, SPML, JV , UP Boring & pipe store
Location	Sarai Pastor
Block	Samren
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 Sarai Pastor, Block Budaun, 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	8.00	8.00	<20	Top Soil	-
2	8.00	21.00	13.00	67	Coarse Sand	-
3	21.00	24.00	3.00	26	Clay	-
4	24.00	43.00	19.00	66	Coarse Sand	-
5	43.00	45.00	2.00	35	Clay	-
6	45.00	54.00	9.00	77	Coarse Sand	Good
7	53.00	58.00	5.00	34	Clay	-
8	58.00	87.00	29.00	73	Coarse Sand, Gravel	Good
9	87.00	89.00	2.00	35	Clay	-
10	89.00	105.00	16.00	79	Coarse Sand, Gravel	Good
11	105.00	110.00	5.00	58	Clay, Coarse Sand	-
12	111.00	121.00	10.00	88	Coarse Sand, Gravel	Good
13	121.00	124.00	3.00	33	Clay	-
14	124.00	130.00	6.00	35	Fine Sand	-

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## 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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