



# 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.....24/01/2024

## REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE BICCHU RAIYYA & CHAUNDAURA, BLOCK SALARPUR, 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 Jan 22, 2024. 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 Infra, UP Boring& Pipes
Location	Bicchu Raiyya & Chaundaura
Block	Salarpur
District	Budaun, U.P
Depth drilled (mbgl)	130
Depth logged (mbgl)	130
Water level (m)	12
LON -64" Resistivity (N-64)	Ohm.m (Blue)
SHN-16 Resistivity (N-16)	Ohm.m (Red)
Self-Potential (SP)	Mv (Green)

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	<20	Top Soil	-
2	3.00	17.00	14.00	57	Medium Coarse Sand	-
3	17.00	20.00	3.00	16	Clay	-
4	20.00	28.00	8.00	66	Coarse Sand	-
5	28.00	33.00	5.00	15	Clay	-
6	33.00	38.00	5.00	69	Coarse Sand	-
7	38.00	42.00	4.00	14	Clay	-
8	42.00	50.00	8.00	60	Coarse Sand	Good
9	50.00	66.00	16.00	15	Clay	-
10	66.00	76.00	10.00	69	Coarse Sand	Good
11	76.00	82.00	6.00	18	Clay	-
12	82.00	87.00	5.00	58	Medium Coarse Sand	Good
13	87.00	89.00	2.00	19	Clay	-
14	89.00	119.00	30.00	65	Coarse Sand	Good

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**SITE- VILLAGE BICCHU RAIYYA & CHAUNDAURA, BLOCK SALARPUR, DISRICT BUDAUN**

15	119.00	125.00	6.00	28	Clay	-
16	125.00	130.00	5.00	33	Fine Sand	-

## 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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