



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.....11/01/2024

REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE GURUPURI VINAYAK, 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 10, 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 Boaring & pipes store
Location	Gurupuri Vinayak
Block	Salarpur
District	Budaun, U.P
Depth drilled (mbgl)	130
Depth logged (mbgl)	130
Water level (m)	30
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	7.00	7.00	<50	Top Soil	-
2	7.00	18.00	11.00	500	Coarse Sand (Dry)	-
3	18.00	22.00	4.00	26	Clay	-
4	22.00	35.00	17.00	76	Coarse Sand	-
5	35.00	38.00	3.00	29	Clay	-
6	38.00	46.00	8.00	69	Coarse Sand	-
7	46.00	60.00	14.00	24	Clay	-
8	60.00	96.00	36.00	66	Coarse Sand	Good
9	96.00	99.00	3.00	25	Clay	-
10	99.00	120.00	21.00	69	Coarse Sand	Good
11	120.00	122.00	2.00	28	Clay	-
12	122.00	130.00	8.00	48	Fine Sand	-

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SITE -VILLAGE GURUPURI VINAYAK, BLOCK SALARPUR, DISRICT BUDAUN, UTTAR PRADESH

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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