

# M/S E.R. TECHNOLOGIES



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.)

GSTIN. 03BNPPS2540N1ZK

## REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE KHULAIT, BLOCK AMBIYAPUR, 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 Jan 04, 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, Mega Cont.
Location	Khulait
Block	Ambiyapur
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)

Sr. No.	Depth Range (m)		Zone Thickness(m)	Resistivity (ohm.m)	Probable Strata	Expected water Quality
	From	To				
1	0.00	4.00	4.00	<20	Top Soil	-
2	4.00	12.00	8.00	47	Medium Sand	-
3	12.00	14.00	2.00	16	Clay	-
4	14.00	22.00	8.00	46	Medium Sand	-
5	22.00	28.00	6.00	15	Clay	-
6	28.00	42.00	14.00	69	Coarse Sand	-
7	42.00	48.00	6.00	14	Clay	-
8	48.00	80.00	32.00	80	Coarse Sand, Gravel	Good
9	80.00	83.00	3.00	15	Clay	-
10	83.00	88.00	5.00	59	Medium Coarse Sand	Good
11	88.00	104.00	16.00	18	Clay	-
12	104.00	109.00	5.00	48	Medium Sand	Good
13	109.00	118.00	9.00	19	Clay	-
14	118.00	130.00	12.00	25	Fine Sand	-

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Ref. ....

Dated.....04/01/2024





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**SITE VILLAGE KHULAIT, BLOCK AMBIYAPUR, DISTRICT 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...

**PARKASH KUMAR**  
Hydrogeologist

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Rho a  
 N 16(SN)  
 N 64 (LN)  
 LAT

Location: KHULAI  
 Log No.: UP LOGGING  
 Date: 04 Apr 2004  
 Time: 19:14  
 Observer: J.S. SAHU  
 Well Depth: 130 MET.  
 Notes:

Logger S/ No:  
 IGIS/S/01/23-24

SP  
 Logger Model:  
 DMPL-2

Logger Owned by:  
 ER Technologies  
 Patiala  
 India

