



# 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.....05/01/2023.....

## REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE MILAK SIKHRAUL (MANDIYAN JAULPUR), BLOCK CHAMRAUA, 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 Jan 04, 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	Om Infra , UP Boring & Pipe Store
Location	Milak Sikhraul (Mandiyam Jaulpur)
Block	Chamraua
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)

Village Milak Sikhraul (Mandiyam Jaulpur), Block Chamraua, District Rampur 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	5.00	5.00	>25	Top Soil	-
2	5.00	13.00	8.00	69	Fine Medium Sand	-
3	13.00	17.00	4.00	16	Clay	-
4	17.00	69.00	52.00	69	Medium Coarse Sand	Good
5	69.00	76.00	7.00	15	Clay	-
6	76.00	80.00	4.00	73	Medium Sand	Good
7	80.00	89.00	9.00	33	Clay	-
8	89.00	94.00	5.00	74	Medium Sand	Good
9	94.00	111.00	17.00	18	Clay	-
10	111.00	115.00	4.00	84	Medium Coarse Sand	Good
11	115.00	119.00	4.00	18	Clay	-
12	119.00	125.00	6.00	98	Medium Coarse Sand	Good
13	125.00	130.00	5.00	19	Clay	-

Regd. Office: 7-A Shanti Nagar , Rajpura Sirhind Bye Pass Road, Near St. Xavier's School

Mobile: 98140-33654, 98721-62830 Office Phone: (0175) 2911516

E-mail:- ertechnologies1516@gmail.com



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Village Milak Sikhraul (Mandiyan Jaulpur), Block Chamraua, District Rampur U.P

## 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

Regd. Office: 7-A Shanti Nagar , Rajpura Sirhind Bye Pass Road, Near St. Xavier's School

**Mobile: 98140-33654, 98721-62830 Office Phone: (0175) 2911516**

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