



# 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.....07/02/2024.....

## REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE SISAIYA GOSAI, BLOCK SAMRERA, 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 Feb 07, 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 , UP Borinmg & Pipes
Location	Sisaiya Gosai
Block	Samrera
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)	LON -64" N Resistivity (ohm.m)	Probable Strata	Expected water Quality
	From	To				
1	0.00	6.00	6.00	<20	Top Soil	-
2	6.00	14.00	8.00	47	Medium Sand	-
3	14.00	19.00	5.00	36	Clay	-
4	19.00	28.00	9.00	56	Medium Coarse Sand	-
5	28.00	31.00	3.00	25	Clay	-
6	31.00	36.00	5.00	53	Medium Coarse Sand	-
7	36.00	38.00	2.00	24	Clay	-
8	38.00	49.00	11.00	59	Medium Coarse Sand	-
9	49.00	52.00	3.00	25	Clay	-
10	52.00	71.00	19.00	57	Medium Coarse Sand	Good
11	71.00	78.00	7.00	28	Clay	-
12	78.00	95.00	17.00	55	Medium Coarse Sand	Good

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



# 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. ....

07/02/2023

Dated.....

## SITE VILLAGE SISAIYA GOSAI, BLOCK SAMRERA, DISRICT BUDAUN

13	95.00	100.00	5.00	25	Clay	-
<b>14</b>	<b>100.00</b>	<b>114.00</b>	<b>14.00</b>	<b>55</b>	<b>Medium Coarse Sand</b>	<b>Good</b>
15	114.00	123.00	9.00	28	Clay	-
16	123.00	130.00	7.00	38	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...

**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**

E-mail:- ertechnologies1516@gmail.com