



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..... 06/09/2023

REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE HARJIPUR, BLOCK MILK, DISRICT RAMPUR, UTTAR PRADESH UNDER JAL JEEVAN MISSION

Introduction:

The borehole at the site was drilled to a depth of 140.00 meters, and the electric logging was conducted up to 140.00-meter depth using a continuous logger on Sep 06, 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.

LOGGING DATA

Name of agency	NKG Infra. , Pawan Kumar
Location	Harjipur
Block	Milk
District	Rampur, U.P
Depth drilled (mbgl)	140
Depth logged (mbgl)	140
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)

Log Report of Harjipur, block Milk, district Rampur, Uttar Pradesh

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	10	Topsoil	-
2	5.00	20.00	15.00	29	Clay	-
3	20.00	56.00	36.00	66	Medium Coarse Sand	-
4	56.00	64.00	8.00	38	Clay	-
5	64.00	108.00	44.00	68	Medium Coarse Sand	Good
6	108.00	115.00	7.00	33	Clay	-
7	115.00	121.00	6.00	65	Medium Coarse Sand	Good
8	121.00	126.00	5.00	21	Clay	-
9	126.00	130.00	4.00	62	Medium Coarse Sand	Good
10	130.00	136.00	6.00	28	Clay	-
11	136.00	140.00	4.00	45	Fine Sand	-

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Recommendations:

Based on the interpreted strata data from the electric logging, the following recommendations are provided:

1. Screen Installation:

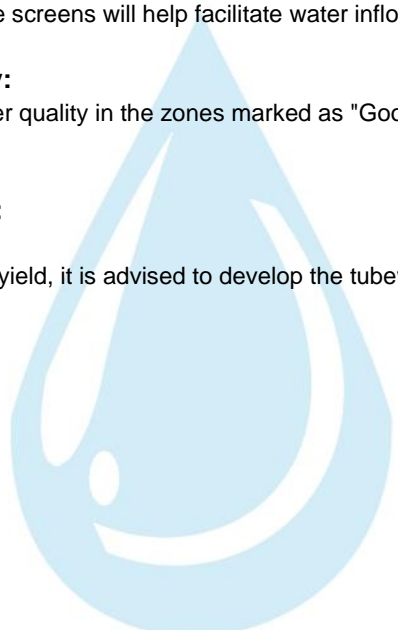
It is recommended to install screens against the **bold-marked strata** indicated in the interpretation above. These screens will help facilitate water inflow from the identified permeable zones.

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.



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