

M/S E.R. TECHNOLOGIES

GSTIN. 03BNPPS2540N1ZK



(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 08/11/2023

REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE SURAHI, BLOCK ISLAMNAGAR, DISTRICT BADAUN, 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 Nov 08, 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	PNC Infratech Ltd., Mega Construction
Location	Surahi
Block	Islamnagar
District	Badaun, 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	15.00	11.00	67	Coarse Sand	-
3	15.00	23.00	8.00	26	Clay	-
4	23.00	34.00	11.00	66	Coarse Sand	-
5	34.00	37.00	3.00	25	Clay	-
6	37.00	41.00	4.00	67	Coarse Sand	-
7	41.00	43.50	2.50	24	Clay	-
8	43.50	49.00	5.50	63	Coarse Sand	Good
9	49.00	53.50	4.50	25	Clay	-
10	53.50	58.00	4.50	69	Coarse Sand	Good
11	58.00	64.00	6.00	23	Clay	-
12	64.00	69.00	5.00	65	Coarse Sand	Good
13	69.00	72.00	3.00	23	Clay	-
14	72.00	84.00	12.00	63	Coarse Sand	Good

Village Surahi, Block Islamnagar, District Badaun U.P.

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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.

Interpretation Done By...

PARKASH KUMAR

Hydrogeologist

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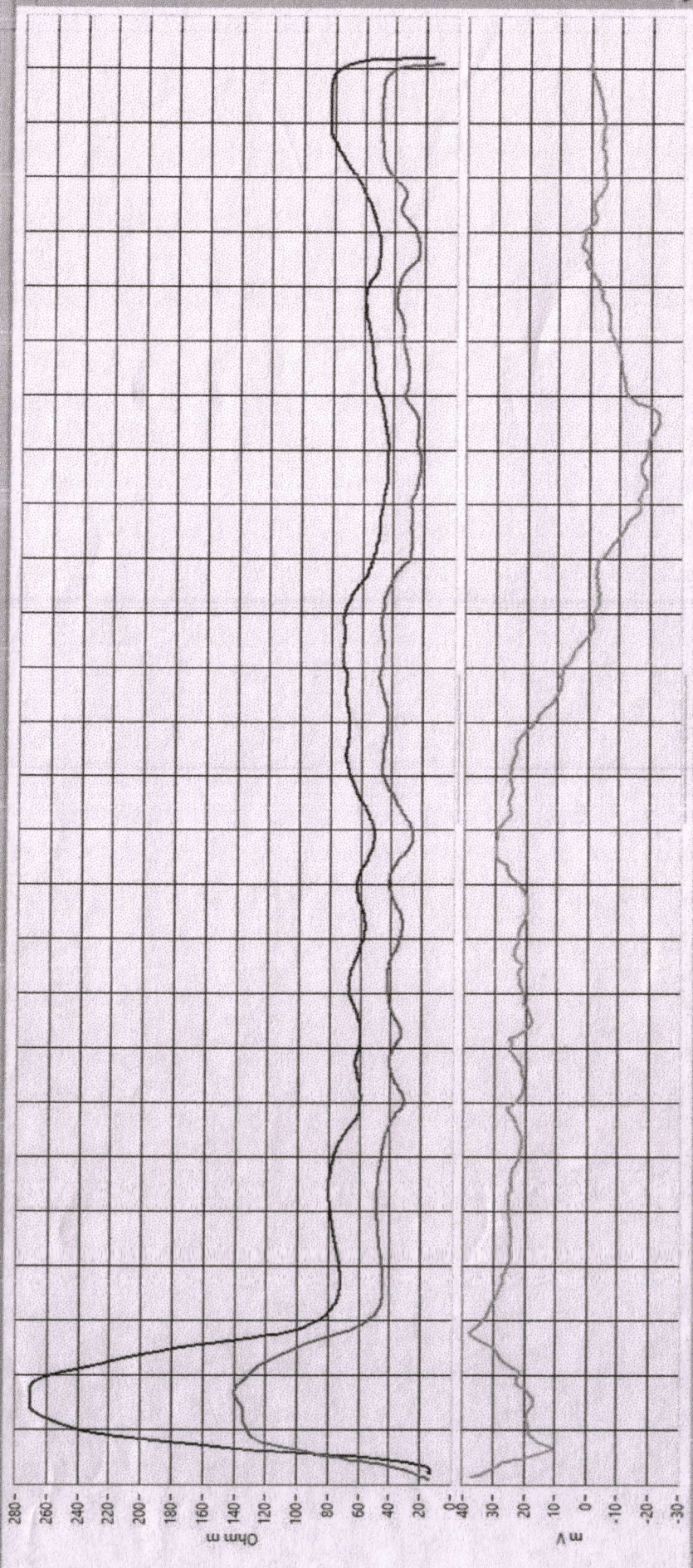
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Rho a
 N 16(SN)
 N 64(LN)
 LAT

Location: 30006
 Log No.: UP LOGSING
 Date: 08 Nov 2023
 Time: 18:18
 Observer: S.S. SAHU
 Well Depth: 130 MTR.
 Notes:

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

SP
 Logger Model: DMPL-2
 Logger Owned by: ER Technologies
 Patiala
 India



Depth (m)

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135