



Technologies

M/S E.R. TECHNOLOGIES

GSTIN. 03BNPPS2540N1ZK

(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.)
(Govt. Contractor of PH & Civil Works & Electrical Works)

Ref:

Dated: 18/01/2024

REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE PHULASI, BLOCK UJHANI, DISTRICT BUDAUN, 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 Jan 18, 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, Mega Construction
Location	Phulasi
Block	Ujhani
District	Budaun, U.P
Depth drilled (mbgl)	140
Depth logged (mbgl)	140
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	3.00	3.00	<20	Top Soil	-
2	3.00	7.00	4.00	67	Coarse Sand	-
3	7.00	39.00	32.00	26	Fine Medium Sand	-
4	39.00	44.00	5.00	66	Coarse Sand	-
5	44.00	55.00	11.00	35	Clay	-
6	55.00	68.00	13.00	77	Coarse Sand	Good
7	68.00	74.00	6.00	34	Clay	-
8	74.00	90.00	16.00	73	Coarse Sand	Good
9	90.00	103.00	13.00	35	Clay	-
10	103.00	111.00	8.00	79	Coarse Sand	Good
11	111.00	114.00	3.00	58	Clay	-
12	114.00	120.00	6.00	88	Coarse Sand	Good
13	120.00	130.00	10.00	33	Fine Sand	-
14	130.00	140.00	10.00	35	Clay	-

Village Phulasi, Block Ujhani, District Budaun, U.P

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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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

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

E-mail:- ertechnologies1516@gmail.com

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

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

Location: PHOENIX
 Log No.: UP LOGGING
 Date: 18 Jan 2024
 Time: 12:40
 Observer: J.S. SAH
 Well Depth: 140 MTS
 Notes:

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

Sp
 Logger Model:
 DMPL-2

Logger Owned by:
 ER Technologies
 Patiala
 India

