

# 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 11/11/2023

## REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE SURSAINA BLOCK WAZIRGANJ, 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 10, 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	Sursaina
Block	Wazirganj
District	Badoun, 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 Sursaina, Block Wazirganj, District Badaun U.P

Sr. No	Depth Range (m)	Zone Thickness(m)	Resistivity (ohm.m)	Probable Strata	Expected water quality	From To	
						From	To
1	0.00	8.00	8.00	Top Soil	-	0.00	8.00
2	8.00	34.00	26.00	Coarse Sand	-	8.00	34.00
3	34.00	37.00	3.00	Clay	-	34.00	37.00
4	37.00	42.00	5.00	Coarse Sand	-	37.00	42.00
5	42.00	44.00	2.00	Clay	-	42.00	44.00
6	44.00	56.00	12.00	Coarse Sand, Gravel	Good	44.00	56.00
7	56.00	61.00	5.00	Clay	-	56.00	61.00
8	61.00	82.00	21.00	Coarse Sand, Gravel	Good	61.00	82.00
9	82.00	89.50	7.50	Clay	-	82.00	89.50
10	89.50	94.50	5.00	Coarse Sand, Gravel	Good	89.50	94.50
11	94.50	95.50	1.00	Clay	-	94.50	95.50
12	95.50	105.00	9.50	Coarse Sand, Gravel	Good	95.50	105.00
13	105.00	112.00	7.00	Clay	-	105.00	112.00
14	112.00	130.00	18.00	Sandy Clay	-	112.00	130.00

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:- ertechologies1516@gmail.com





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 11/11/2023

### 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*  
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



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

Location: SURSARNA  
 Log No.: UR LOGS16  
 Date: 10/Nov/2023  
 Time: 18:55  
 Observer: J.S. SAINI  
 Well Depth: 130 MTR  
 Access:

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

SP  
 Logger Model:  
 DMPL-2

Logger Owned by:  
 ER Technologies  
 Patiala  
 India

