

Ref. ....

Dated..... 25/10/2023

**REPORT OF ELECTRIC LOGGING OF BOREWELL DRILLED AT SITE VILLAGE  
GOKALPUR, BLOCK PUWARKA, DISRICT SAHARANPUR, 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 Oct 25, 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 Infrastructure Pvt Ltd.
Location	Gokalpur
Block	Puwarka
District	Saharanpur, 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)

**Log Report of Gokalpur, block Puwarka, district Saharanpur, 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	>50	Top Soil	-
2	5.00	28.00	23.00	45	Medium Coarse Sand	-
3	28.00	31.00	3.00	29	Clay	-
4	31.00	43.00	12.00	69	Coarse Sand	-
5	43.00	45.50	2.50	36	Clay	-
6	45.50	50.00	4.50	67	Medium Coarse Sand	-
7	50.00	52.00	2.00	27	Clay	-
8	52.00	59.00	7.00	67	Coarse Sand	Good
9	59.00	65.00	6.00	26	Clay	-
10	65.00	75.00	10.00	66	Coarse Sand	Good
11	75.00	79.00	4.00	29	Clay	-
12	79.00	85.00	6.00	66	Coarse Sand	Good
13	85.00	88.00	3.00	25	Clay	-
14	88.00	92.00	4.00	70	Medium Sand	Good
15	92.00	94.50	2.50	29	Clay	-

**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**

Ref. ....

Dated.....25/10/2023

Log Report of Gokalpur, block Puwarka, district Saharanpur, Uttar Pradesh

16	94.50	98.50	4.00	66	Medium Coarse Sand	Good
17	98.50	104.00	5.50	29	Clay	-
18	104.00	112.00	8.00	63	Coarse Sand	Good
19	112.00	126.50	14.50	25	Clay	-
20	126.50	133.00	6.50	64	Coarse Sand	Good
21	133.00	134.50	1.50	29	Clay	-

## Recommendations:

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

### 1. Screen Installation:

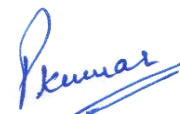
It is recommended to install screens against the **bold-marked strata** indicated in the interpretation above. These screens will help facilitate water inflow from the identified permeable zones.

### 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.



**PARKASH KUMAR**  
Hydrogeologist