## REPORT ON GEO-PHYSICAL ELECTRICAL LOGGING OF BOREHOLE

at Village: Vinaypur Khekra, Baghpat, Uttar Pradesh

For State Water Sanitation Mission (Jal Jeevan Mission) UP Jal Nigam(Rural), Baghpat, U.P

Submitted Through

M/s. L.C. Infra Projects Private Limited

Conducted by



GLOBAL GROUND WATER CONSULTANTS (Consulting Geologists & Geophysicists) 84- III Floor, Humayun pur, Safdarjung Enclave, New Delhi - 110 029 Phone: **9818-888824; 9818-007038**.

Date: 22<sup>nd</sup> September 2023

### REPORT ON GEO-PHYSICAL RESISTIVITY LOGGING OF BOREHOLE

1

#### At

# Village: Vinaypur Khekra, Baghpat, Uttar Pradesh

## Introduction:

A deep borehole 150 (492 Feet) was drilled by working agency *M/s. LC Infra Projects Private Limited, Baghpat, U.P.* as a part of their scope work for development of tubewells under Jal Jeevan Mission Project of SWSM. GGWC conducted a Geophysical Resistivity logging in the above borehole using IGIS's Logger dated on  $22^{nd}$  September 2023

Based on the interpretation of the Logging, the following litho logy has been inferred which tallies fairly well with the well-site litho-log based on mudwash samples.

Dep	th in I	m	Expected Litholog	Expected Quality
0	-	3	Surface Soil	
3	-	20	Clay	
20	-	24*	Fine sand	Good
24	-	42	Clay kankar	
42	-	59*	Medium to fine sand	Good
59	-	66	Clay	
66	-	77*	Medium to fine sand	Good
77	-	82	Clay	
82	-	92*	Medium to fine sand	Good
92	-	99	Clay kankar	
99	-	129	Clay	
129	-	138*	Fine sand	Saline
138	-	150	Clay	

## Conclusions and Recommendations:

- 1. The litholog inferred broadly tallies with that of the well-site litholog.
- 2. The zones marked with asterisk (\*) appear to be Aquifer Zones for possible development of tubewell.
- 3. As per thickness of the Aquifer the expected discharge is 50,000 LPH to 60,000 LPH.
- 4. Water Level is 13 m below ground level.
- 5. The Quality of water is good. However, it is recommended to have a chemical and bacteriological analysis of the water sample before using it for human consumption or for any other use.
- 6. The shallow aquifers are also recommended for development to get good quantity of water.
- 7. All projections and recommendations are subject to the inherent limitations of the technique employed and there could be variations as the underground conditions are not always amenable to physical interpretations.

for Global Groundwater Consultants

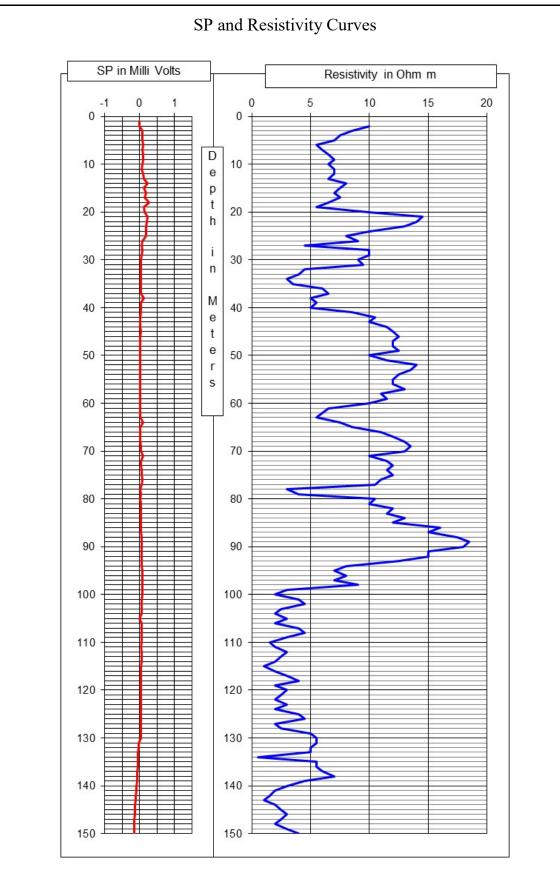
+ citin



Chief Executive

Global Groundwater Consultants Consulting Geologists and Geophysists





Global Groundwater Consultants Consulting Geologists and Geophysists

# GPS Map Camera Vinaipur, Uttar Pradesh, India Colonel farms, R983+P27, opposite Aryan shooting range, Vinaipur, Uttar Pradesh 250101, India Lat 28.816364° Long 77.352581° Google 22/09/23 03:50 PM GMT +05:30

Photo of the Site at the time of Logging