

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-582

Date:- 19-03-2025

NAME OF SITE

GRAM PANCHAYAT- Kumarpur Kalan-2 BLOCK- Bijua DISTT- Lakhimpur Khiri

NAME OF AGENCY

M/s Vindha Telelinks Limited
SWSM LakhimpurKheri



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.
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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KUMARPUR KALAN -2, BLOCK- BIJUA, DISTT- LAKHIMPUR KHERI UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 162 mtrs. at above site. Was drilled by M/s Vindha Telelinks Limited SWSM Lakhimpur Kheri.

On the request of M/s Vindha Telelinks Limited SWSM Lakhimpur Kheri.

a Geophysical well Logging in the above bore hole using IGIS Well Logger on 19.Mar.2025.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 17.33 Ohms.

Drilling Water Resistivity = 18.20 Ohms.

Approx Water Level = 6 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 15	10	Clay Kankar	
3.	15 - 25	10	Medium sand	Good
4.	25 - 30	5	Clay kankar	
5.	30 - 42	12	Medium sand & kankar	Good
6.	42 - 71	29	Clay kankar	
7.	71 - 81*	10	Medium sand	Good
8.	81 - 87	6	Clay kankar	
9.	87 - 95*	8	Medium sand	Good
10.	95 - 100	5	Clay kankar	
11.	100 - 113*	13	Medium sand	Good
12.	113 - 118	5	Clay kankar	
13.	118 - 122*	4	Fine to Medium sand	Good
14.	122 - 126	4	Clay kankar	
15.	126 - 129*	3	Fine to Medium sand	Good
16.	129 - 131	2	Clay kankar	
17.	131 - 140*	9	Medium sand	Good
18.	140 - 145	5	Clay kankar	
19.	145 - 158*	13	Medium sand & kankar	Good
20.	158 - 162	4	Clay kankar	

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Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting strata chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible Development of tube well.
3. The Quality of water is expected Good.
4. 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.
5. 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.



