

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B-3267

Date:- 22-03-2024

NAME OF SITE

GRAM PANCHAYAT- Bhadehia BLOCK- Ishanagar 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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ISO ; 9001 : 2015

Ground Water Survey Consultancy

Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHADDEHIA, BLOCK- ISHANAGAR, DISTT- LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

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

On the request of M/s M/s Vindha Telelinks Limited SWSM Lakhimpur Kheri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 22.Mar.2024.

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 = 18.93 Ohms.

Drilling Water Resistivity = 19.58 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 - 7	2	Clay kankar	
3.	7 - 20	13	Fine to Medium sand	Good
4.	20 - 25	5	Clay kankar	
5.	25 - 31	6	Medium sand	Good
6.	31 - 38	7	Clay kankar	
7.	38 - 66*	28	Medium sand	Good
8.	66 - 83	17	Clay kankar	
9.	83 - 90*	7	Medium sand	Good
10.	90 - 95	5	Clay kankar	
11.	95 - 130*	35	Medium sand & kankar	Good
12.	130 - 142	12	Clay kankar	
13.	142 - 160*	18	Medium sand	Good
14.	160 - 165	5	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.

Geologist



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

Location:
 Logging V Bharsana
 Ecode: Jharkhand, Dutt
 Jagannath, Dutt
 Log No:
 VJ 000000000
 Date:
 22 Mar 2024
 Time:
 17:11
 Operator:
 Vinayak Gupta (KS)
 Well Depth:

Logger Site No:
 IG/S/S/02/22-23

Logger Model:
 SP

Logger Model:
 DNAPL-2

Logger Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP, INDIA

