

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-A-1356

Date:- 13-08-2023

NAME OF SITE

GRAM PANCHAYAT- Nidhauri Khurd

BLOCK- Sakit

DISTT- Etah

NAME OF AGENCY

M/s ION Exchange India Limited
Etah



GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.
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Ground Water Survey Consultancy
Agra

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NIDHAULI KHURD, BLOCK- SAKIT, DISTT-ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 100 mtrs. depth. and Logged depth 100 mtrs. at above site. Was drilled by M/s ION Exchange India Limited, Etah.

On the request of M/s ION Exchange India Limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 13.Aug.2023

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 = 13.20 Ohms.

Drilling Water Resistivity = 13.90 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Clay kankar	
3.	12 - 17	5	Medium sand	Medium
4.	17 - 22	5	Clay kankar	
5.	22 - 30	8	Medium sand	Medium
6.	30 - 37	7	Clay kankar	
7.	37 - 52*	15	Medium sand	Medium
8.	52 - 100	48	Clay kankar	

Note :- Please ensure pre-monsoon water level before lower the well assembly.



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 Medium.
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.

Geophysicist



Ground Water Survey Consultancy

Photo
 N16 (SNT)
 NS&Q/10
 LAT

Location:
 Logging of Normal to-arc
 back-thrust zone strike
 log No. 1000000000
 Date 13 Aug 2022
 Time 13:34
 Operator: CHAKRABARTY
 Unit Depth

Logger's No.:
 IGS/S/03/21-22

Logger Model:
 SP

DMPL-2

Logger Owned by:
 GROUND WATER
 SURVEY
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 - AGRA INDIA

