

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-A- 1539

Date:- 02-09-2023

NAME OF SITE

GRAM PANCHAYAT- Nagla Bike

BLOCK- Sakit

DISTT- Etah

NAME OF AGENCY

M/s ION Exchange India Limited
Etah



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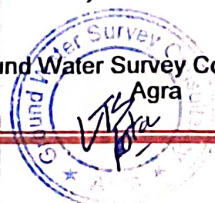
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NAGLA BIKE, BLOCK- SAKIT, DISTT-ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 106 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 02.Sep.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:-

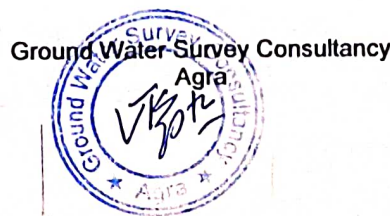
Mud Resistivity = 15.40 Ohms.

Drilling Water Resistivity = 16.71 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Dry sand	
3.	10 - 13	3	Clay	
4.	13 - 18	5	Medium sand	Medium
5.	18 - 23	5	Clay kankar	
6.	23 - 27	4	Medium sand	Medium
7.	27 - 30	3	Clay kankar	
8.	30 - 33	3	Medium sand	Medium
9.	33 - 40	7	Clay kankar	
10.	40 - 43	3	Fine sand	Medium
11.	43 - 60	17	Clay kankar	
12.	60 - 91*	31	Medium sand & kankar	Medium
13.	91 - 106	15	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



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E Rho a
 N16 (SN)
 N64(LN)
 LAT
 Logging Details
 Logging v. Log a Series
 associated with
 UP LOGGING
 on Sep 2012
 T123
 (Source: India (m))
 Logger S No: IGSS/03/21-22
 Logger Model: SP (m V)
 DMAPL-2
 Logger Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 - AGRA INDIA

