

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B-170

Date:- 28-05-2024

NAME OF SITE

GRAM PANCHAYAT- Nagla Khilli

BLOCK- Nidhauri Kalan

DISTT- Etah

NAME OF AGENCY

M/s Kalpataru Project International Pvt. Ltd.
Etah



GROUND WATER SURVEY CONSULTANCY

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 KHILLI, BLOCK- NIDHAULI KALAN, DISTT- ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 mtrs. at above site. Was drilled by M/s Kalpataru Project International Pvt. Ltd, Etah.

On the request of M/s Kalpataru Project International Pvt. Ltd, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 28.May.2024.

Logging Para meters - Self potential, short normal (N16), 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:-

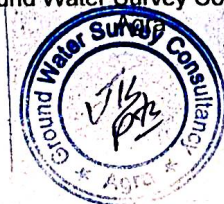
Mud Resistivity = 8.03 Ohms.

Drilling Water Resistivity = 11.24 Ohms.

Approx Water Level = 8 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 - 20	8	Fine sand	
4.	20 - 25	5	Clay kankar	
5.	25 - 40*	15	Fine to medium sand	Medium
6.	40 - 60	20	Clay kankar	
7.	60 - 65	5	Fine sand	Med to marginally
8.	65 - 75	10	Clay kankar	
9.	75 - 80	5	Fine to medium Sand	Med to marginally
10.	80 - 98	8	Clay kankar	
11.	98 - 105	7	Fine to medium sand	Med to Marginally
12.	105 - 120	15	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 Medium to Marginally.
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
 N16 (SN)
 N64(LN)
 LAT

Logging Details:
 1st Logging: 28 May 2012
 2nd Logging: 28 May 2012
 13.34
 10773

Logger's No:
 IGIS/S/01/21-22

SP (mV)
 Logger Model:
 DMPL-2

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

