

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTOLOGGING REPORT

Ref No:-B- 845

Date:- 08-06-2023

NAME OF SITE

GRAM PANCHAYAT- Swar Khurd BLOCK- Milak DISTT- Rampur

NAME OF AGENCY

M/s NKG Infrastructure Limited
Delhi



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- SWAR KHURD, BLOCK- MILAK, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 142 mtrs. depth. and Logged depth 140 mtrs. at above site. Was drilled by M/s NKG Infrastructure Limited, Delhi.

On the request of M/s NKG Infrastructure Limited, Delhi. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 08.June.2023.

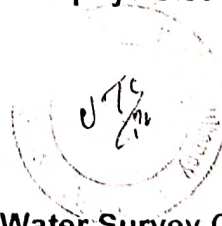
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 20	10	Fine sand	
4.	20 - 25	5	Clay kankar	
5.	25 - 30	5	Fine sand	Good
6.	30 - 40	10	Clay kankar	
7.	40 - 55	15	Medium sand	Good
8.	55 - 60	5	Clay kankar	
9.	60 - 87*	27	Medium sand	Good
10.	87 - 91	4	Kankar	
11.	91 - 102*	11	Medium sand	Good
12.	102 - 109	7	Clay kankar	
13.	109 - 117*	8	Fine to Medium sand	Good
14.	117 - 140	23	Clay kankar	

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 tubewell.
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.

Geophysicist



Ground Water Survey Consultancy

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

Location:
 Logging Co. Survey Co. No.
 Elevation: 160 m
 US Code No. 16
 Date: 05/02/22
 T-1: 1536
 Chart: 1536
 UTM Zone: 48 Q UG
 WGS 84

Log No.:
 IGIS/S/02/22-23

Log Model:
 SP

Log Model:
 DMPL-2
 Project Owned by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 AGRA, UP, INDIA

