

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTROLOGGING REPORT**

Date:- 09-01-2023

Ref No:- 669

NAME OF SITE

Gram Panchayat- Khirika

BLOCK- Shahbad

DISTT- Rampur

NAME OF AGENCY

M/s NKG Infrastructure Limited
Delhi



GROUND WATER SURVEY CONSULTANCY
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Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- KHIRIKA, BLOCK- SHAHBAD, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 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 09.Jan.2023.

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major equifer 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 - 8	3	Fine sand	
3.	8 - 10	2	Clay	
4.	10 - 24	14	Fine sand	Med to Good
5.	24 - 27	3	Clay kankar	
6.	27 - 54	27	Medium sand	Med to Good
7.	54 - 57	3	Clay kankar	
8.	57 - 65*	8	Medium sand	Med to Good
9.	65 - 70	5	Kankar	
10.	70 - 92*	22	Fine to Medium sand	Med to Good
11.	92 - 98	6	Clay kankar	
12.	98 - 100	2	Fine sand	Med to Good
13.	100 - 102	2	Clay kankar	
14.	102 - 109*	7	Medium sand	Med to Good
15.	109 - 115	6	Clay kankar	
16.	115 - 120*	5	Medium sand	Med to Good
17.	120 - 125	5	Clay kankar	
18.	125 - 132*	7	Medium sand	Med to Good
19.	132 - 140	8	Clay kankar	



Conclusions and Recommendations :-

1. The Lithology broadly tallies with that of drill cutting starta chart.
2. The zones marked with asterisk (*) appear to be aquifer zones for possible development of tubewell.
3. The Quality of water is expected Medium to Good.
4. It is recommended to have a chemical and bacteriological analysis of the water samp 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.

Area 1
NIE (SN)
NIE (SN)
LAT

DATE OF RECORDING
INSTRUMENT
NO. OF RECORDS
NO. OF STATIONS
INSTRUMENT

SP (mV)

