

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B- 673

Date:- 16-06-2023

### NAME OF SITE

GRAM PANCHAYAT- Bhadarpur Manfodha  
DISTT- Muzaffarnagar

BLOCK- Khatauli

### NAME OF AGENCY

NKG Infrastructure Limited  
New Delhi

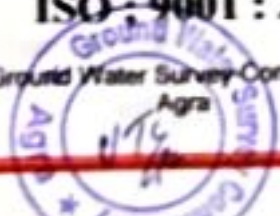


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Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations,  
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**ISO - 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GROUNDFORMATION, AT SHALIMPUR BARRIAGE, DISTRICT - HEMCHANDI,  
STATE - WEST BENGAL  
INDIA  
JAL JIVAN MISSION

## EXECUTIVE SUMMARY:

A Log/sonar was drilled 100-m depth and logged depth 100-meters at ground level and filled by M/S. Infrastructure Limited, New Delhi

On the request of M/S. Infrastructure Limited, New Delhi, a Geophysical well logging is carried out at above location using (SIS) Well logger on 15 June 2022

Logging Parameters: Self potential, short normal (S-NS), Long normal (S-SL), Lateral. Details of major aquifer formation obtained from logging of sonar log correlated with the study of borehole log prepared from well casing are given in the following table.

Depth	Well depth (m)	Formation	Lithology	Expected Water Quality
0	0 - 5	5	Surface soil	
1	5 - 10	10	Clay siltstone	
2	10 - 15	15	Free sand	
3	15 - 20	20	Clay siltstone	
4	20 - 25	25	Medium sand	Med to Good
5	25 - 30	30	Clay siltstone	
6	30 - 35	35	Medium sand	Med to Good
7	35 - 40	40	Clay siltstone	
8	40 - 45	45	Medium sand	Med to Good
9	45 - 50	50	Clay siltstone	
10	50 - 55	55	Medium sand & siltstone	Med to Good
11	55 - 60	60	Clay siltstone	
12	60 - 65	65	Medium sand	Med to Good



4. It is recommended to have chemical and bacteriological analysis of the 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**

**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 Medium to 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**



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