

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-A- 584

Date:- 31-03-2023

NAME OF SITE

GRAM PANCHAYAT- Bamanpuri

BLOCK- Shahabad

DISTT- Rampur

NAME OF AGENCY

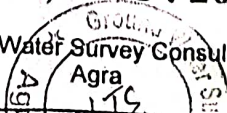
NKG Infrastructure Limited
New Delhi



GROUND WATER SURVEY CONSULTANCY
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ISO ; 9001 : 2015

Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BAMANPURI, BLOCK- SHAHABAD, DISTT- RAMPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 150 mtrs. depth and logged depth 150 mtrs. at above site was drilled by NKG Infrastructure Limited, New Delhi.

On the request of NKG Infrastructure Limited, New Delhi. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 31.Mar.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 - 8	3	Dry sand	
3.	8 - 13	5	Clay kankar	
4.	13 - 25	12	Fine to Medium sand	
5.	25 - 30	5	Clay kankar	
6.	30 - 54	24	Medium sand	Good
7.	54 - 58	4	Clay kankar	
8.	58 - 77*	19	Medium sand	Good
9.	77 - 80	3	Clay kankar	
10.	80 - 94*	14	Medium sand	Good
11.	94 - 108	14	Clay kankar	
12.	108 - 118*	10	Medium sand	Good
13.	118 - 122	4	Kankar	
14.	122 - 130*	8	Fine to Medium sand	Good
15.	130 - 133	3	Clay kankar	
16.	133 - 144*	11	Medium sand	Good
17.	144 - 150	16	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



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