GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- A- 171

Date: - 09-02-2023

NAME OF SITE

Gram Panchayat- Bharai

BLOCK-Nigohi

DISTT- Shahjahanpur

NAME OF AGENCY

M/s NCC Ltd. Shahjahanpur



GEOUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations. 112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006 (M): 9412260823, 9794625420, 9761163000, Email: gwsc_agra@yahoo.com ISO : 9001 : 2015

Ground Water Survey Consultancy

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHARAI, BLOCK- NIGOHI, DISTT- SHAHJAHANPUR 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 NCC Ltd., Shahjahanpur.

On the request of M/S NCC Ltd., Shahjahanpur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 09.Feb.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(Lithology	Expected
1	The state of the s	m)	1 * H	Water Quality
<u>l.</u>	0 - 5	5	Surface soil	
2.	5 - 10	5	Clay kankar	
3.	10 - 17	7	Fine sand	
4.	17 - 21	4	Clay kankar	
5.	21 - 37	16	Fine to Medium sand	Good
6.	37 - 47	10	Clay kankar	Good
7.	47 - 57*	10	Fine to Medium sand	Good
8.	57 - 63	6	Clay kankar	Good
9.	63 - 68	5	Fine sand	Good
10.	68 - 72	4	Clay kankar	Good
11.	72 - 76	4	Kankar	
12.	76 - 82	6	Clay kankar	-
13.	82 - 102*	20	Medium sand	0.1
14.	102 - 107	5		Good
15.	107 - 125*	18	Clay kankar	
16.	125 - 130	5	Medium sand & kankar	Good
17.	130 - 137*	7	Clay kankar	
18.	137 - 140	3	Medium sand	Good
		.7	Clay kankar	

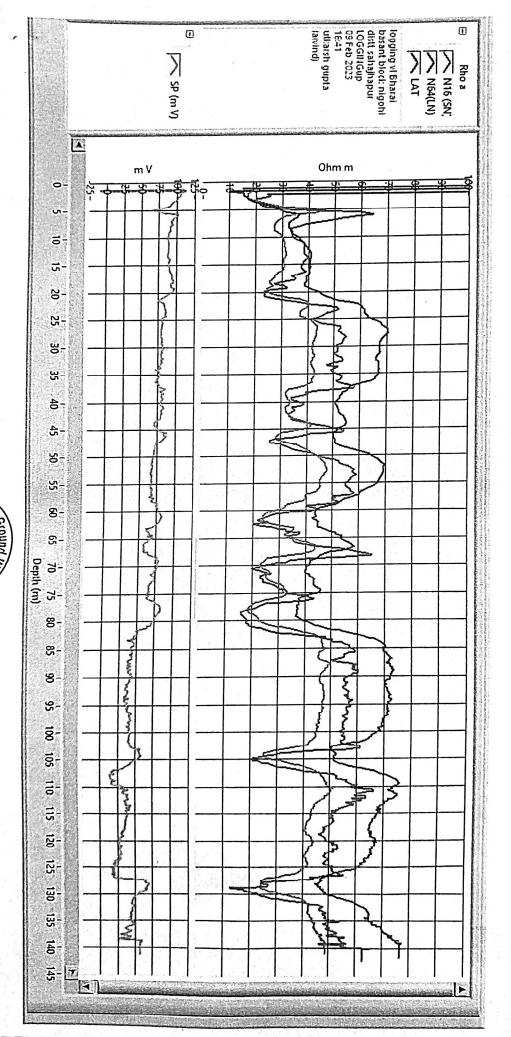
Ground Water Survey Consultancy

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.
- 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



ELDA *