GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 605

Date:- 09-03-2022

NAME OF SITE

GRAM PANCHAYAT- Arjunpur Banarasdevi BLOCK- Nigohi
DISTT- Shahjanhapur

NAME OF AGENCY

M/s NCC Ltd.
Shahjanhapur

GROUND WATER SURVEY CONSULTANCY
AGRA
ESTD. 2010

GROUND 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

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REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- ARJUNPUR BANARASDEVI, BLOCK- NIGOHI
DISTT- SHAHJANHAPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 145 mtrs. depth. and Logged depth 144 mtrs. at above site. Was drilled by M/S NCC Ltd., Shahajanhapur.

On the request of M/S NCC Ltd., Shahajanhapur. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 09.Mar.2022.

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.	Defth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 25	20	Clay kankar	
3.	25 - 36	11	Fine sand	
4.	36 - 40	4	Clay kankar	
5.	40 - 50*	10	Medium sand	Good
6.	50 - 54	4	Clay kankar	
7.	54 - 64*	10	Medium sand	Good
8.	64 - 80	16	Clay kankar	
9.	80 - 105*	25	Medium sand	Good
10.	105 - 114	9	Clay kankar	
11.	114 - 125*	11	Medium sand	Good
12.	125 - 130	5	Clay kankar	
13.	130 - 135	5	Fine sand	Good
14.	135 - 137	2	Clay kankar	
15.	137 - 144	7	Fine to Medium sand	Good

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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 Good.

4. Expected discharge is 1000 to 1100 L.P.M.

5. 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.

6. 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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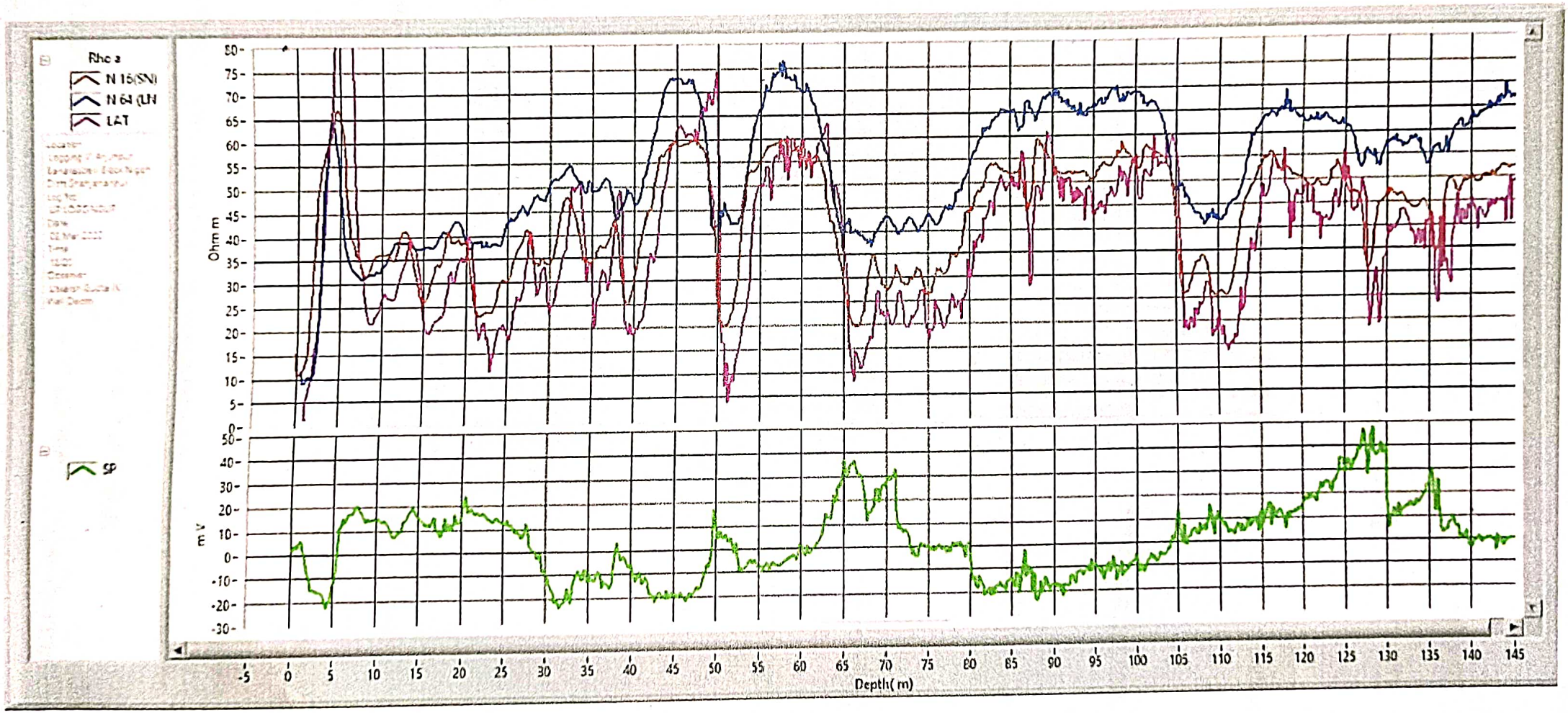

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