GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 221

Date:- 19-12-2021

NAME OF SITE

GRAM PANCHAYAT- Astoli BLOCK- Mirzapur DISTT- Shahjanhapur

NAME OF AGENCY

M/s NCC Ltd.
Shahjanhapur

GROUND WATER SURVEY CONSULTANCY
AGRA
ESTD. 2010

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ISO ; 9001 : 2015

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Agra

REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- ASTOLI, BLOCK- MIRZAPUR, DISTT- SHAHAJANHAPUR
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 145 mtrs. depth. and Logged depth 145 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 19.Dec.2021.

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 - 10	5	Fine sand	
3.	10 - 20	10	Sandy clay	
4.	20 - 30	10	Fine to Medium sand	Good
5.	30 - 32	2	Clay kankar	
6.	32 - 45	13	Medium sand	Good
7.	45 - 52	7	Clay kankar	
8.	52 - 58	6	Kankar with sand	Good
9.	58 - 62	4	Clay kankar	
10.	62 - 70*	8	Fine to Medium sand	Good
11.	70 - 72	2	Clay kankar	
12.	72 - 78*	6	Fine to Medium sand	Good
13.	78 - 90	12	Clay kankar	
14.	90 - 105*	15	Medium sand	Good
15.	105 - 115	10	Kankar with sand	
16.	115 - 125*	10	Fine to Medium sand	Good
17.	125 - 127	2	Clay kankar	
18.	127 - 137	10	Fine sand	Good
19.	137 - 145	8	Clay kankar	

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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 900 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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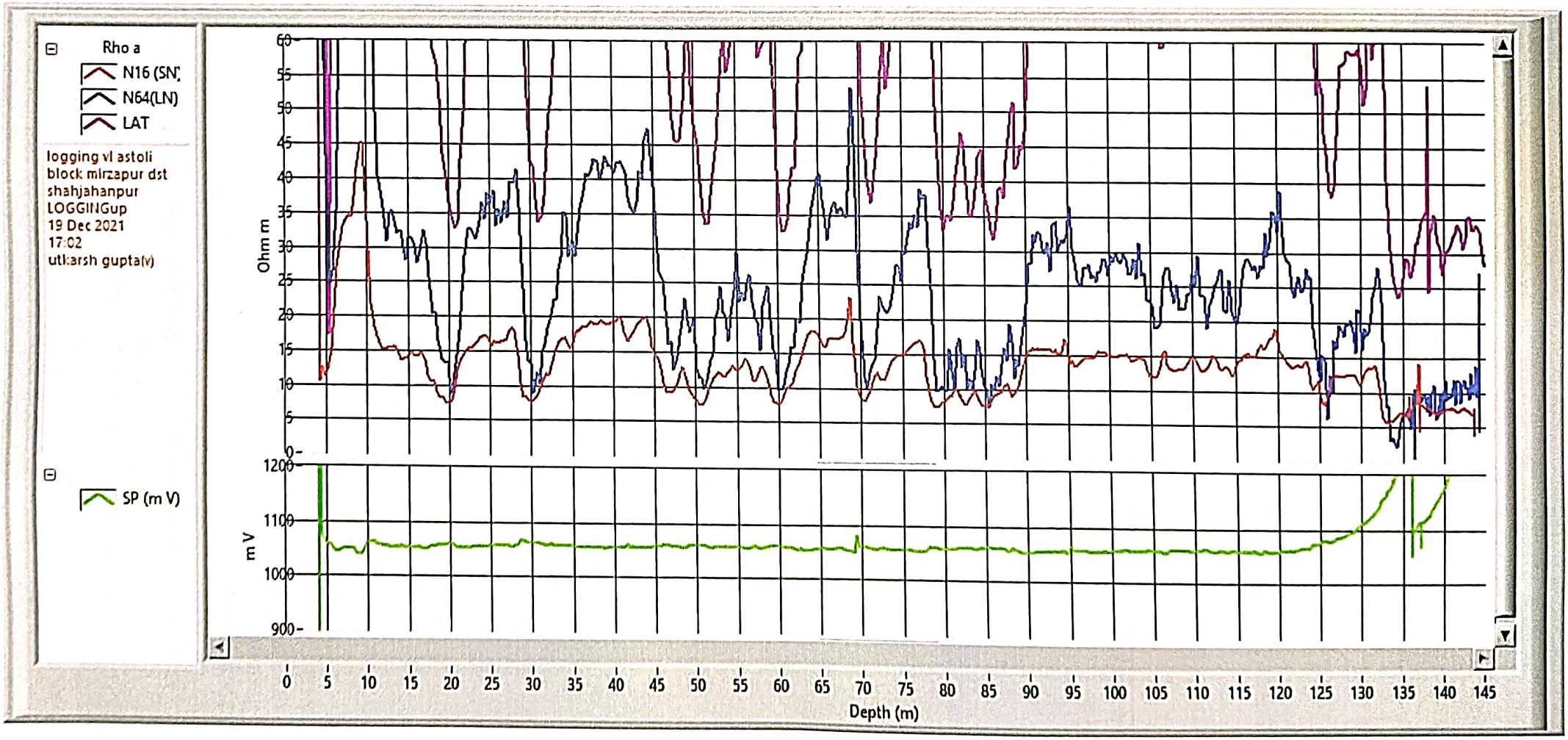
Rho a
N16 (SN
N64(LN)
LAT
logging vl astoli
block mirzapur dst
shahjahanpur
LOGGINGup
19 Dec 2021
17:02
utkarsh gupta(v)
SP (m V)
Ohm m
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mV
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0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145
Depth (m)