GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 01

Date:- 01-04-2022

NAME OF SITE

Gram Panchayat- Harnathpur Mustakhar BLOCK- Wazirganj DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun

BHAGWATI BOREWELL HYDRO-GE

GROUND WATER SURVEY CONSULTANCY AGRA ESTD. 2010

GROUND WATER SURVEY CONSULTANCY

Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

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ISO ; 9001 : 2015

Ground Water Survey Consultancy Agra

REPORT ON GEOPHYSICAL WELL LOGGING
AT

GRAM PANCHAYAT- HARNATHPUR MUSTAKHAR, BLOCK- WAZIRGANJ
DISTT.- BADAUN

UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 122 mtrs. depth. and Logged depth 112 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Badaun.

On the request of M/S PNC-SPML-JV, Badaun. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 01.Apr.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 - 20	15	Dry sand	
3.	20 - 25	5	Fine sand	
4.	25 - 30	5	Clay kankar	
5.	30 - 35	5	Medium sand	Good
6.	35 - 40	5	Clay kankar	
7.	40 - 45	5	Fine sand	Good
8.	45 - 49	4	Clay kankar	
9.	49 - 54*	5	Medium sand	Good
10.	54 - 60	6	Clay kankar	
11.	60 - 78*	18	Medium sand	Good
12.	78 - 84	6	Clay kankar	
13.	84 - 93*	9	Fine to Med. sand & Kankar	Good
14.	93 - 100	7	Sandy clay	
15.	100 - 112	12	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 700 to 900 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.

BHAGWATI BOREWELL
HYDRO GEOLOGIST

Geophysicist

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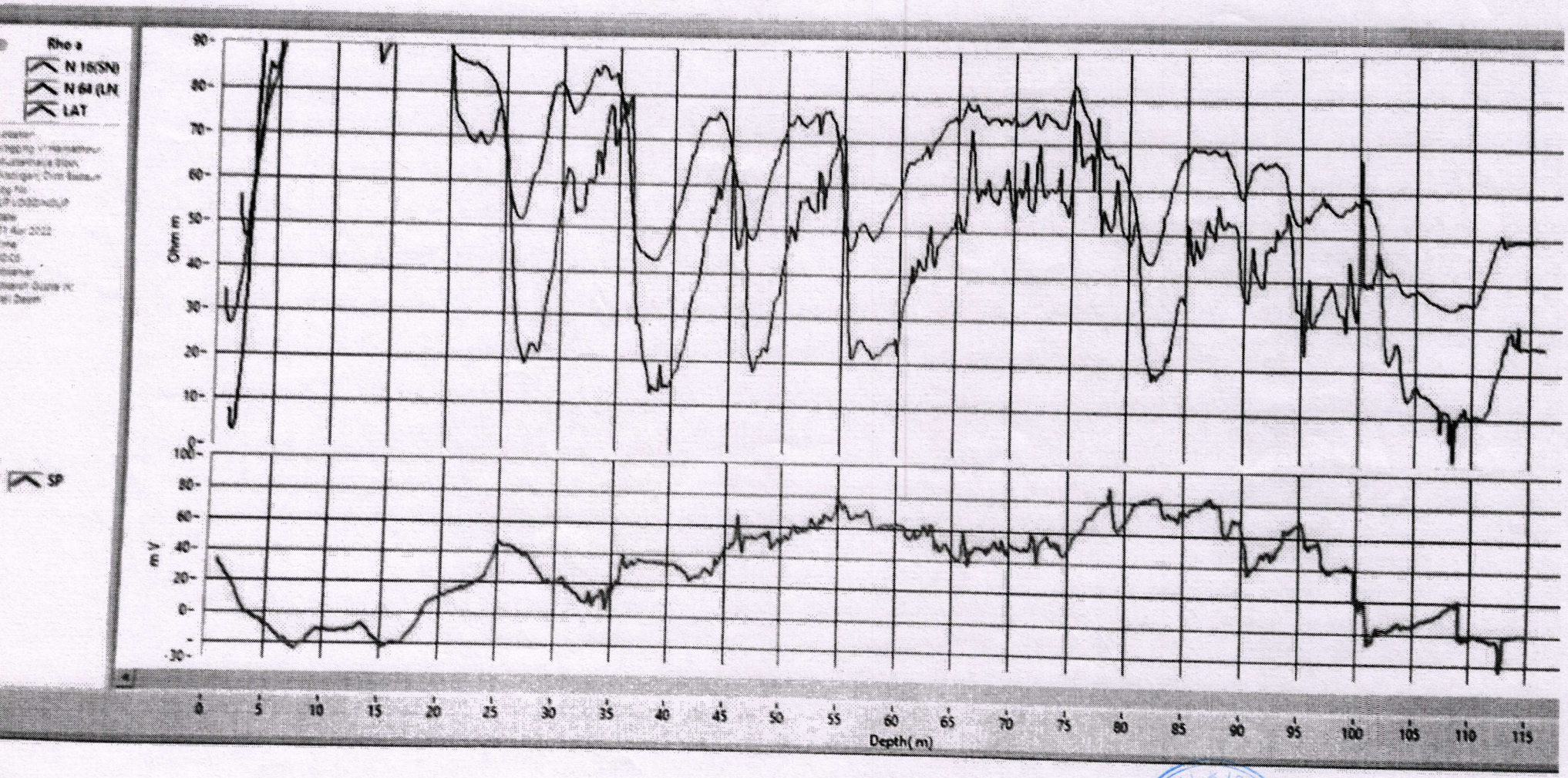

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SWATI BOREWELL * HYDRO-GEOLOGIST *