

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:- 28

Date:- 10-11-2022

NAME OF SITE

Gram Panchayat- Nagla Barah BLOCK- Islamnagar DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



GROUND WATER SURVEY CONSULTANCY
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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NAGLA BARAH, BLOCK- ISLAMNAGAR
DISTT.- BADAUN

UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 120 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 10.Nov.2022.

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 - 9	4	Clay	
3.	9 - 18	9	Dry sand	
4.	18 - 30	12	Clay kankar	
5.	30 - 40	10	Medium sand	
6.	40 - 43	3	Kankar	Good
7.	43 - 50*	7	Medium sand	Good
8.	50 - 60	10	Clay kankar	
9.	60 - 76*	16	Medium sand	Good
10.	76 - 80	4	Kankar	
11.	80 - 90*	10	Medium sand	Good
12.	90 - 96	6	Clay kankar	
13.	96 - 111*	15	Medium sand	Good
14.	111 - 120	9	Clay kankar	

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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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