## GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:-B-2070

Date:- 15-10-2023

### NAME OF SITE

GRAM PANCHAYAT- Nagla Salar

BLOCK- Sahaswan

DISTT-Badaun

NAME OF AGENCY

M/s PNC-SPML-JV Badaun



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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NAGLA SALAR, BLOCK- SAHASWAN, DISTT- BADAUN
UNDER
JAL JIVAN MISSION

#### Introduction:

A Deep bore hole was drilled 130 mtrs. depth. and Logged depth 130 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 15.Oct.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(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 12	7	Dry sand	
3.	12 - 23	11	Clay kankar	
4.	23 - 30	7	Fine sand	
5.	30 - 33	3	Clay kankar	
6.	33 - 40	7	Fine to Medium sand	Med to Good
7.	40 - 59	19	Clay kankar	
8.	59 - 66*	7	Fine to Medium sand	Med to Good
9.	66 - 77	11	Clay kankar	
10.	77 - 100*	23	Medium sand	Med to Good
11.	100 - 105	5	Clay kankar	
12.	105 - 113*	8	Fine to Med sand & kan	Med to Good
13.	113 - 115	2	Clay kankar	11100 10 0000
14.	115 - 122*	7	Fine to Medium sand	Med to Good
15.	122 - 130	8/6,50	Clay kankar	11100 10 0000

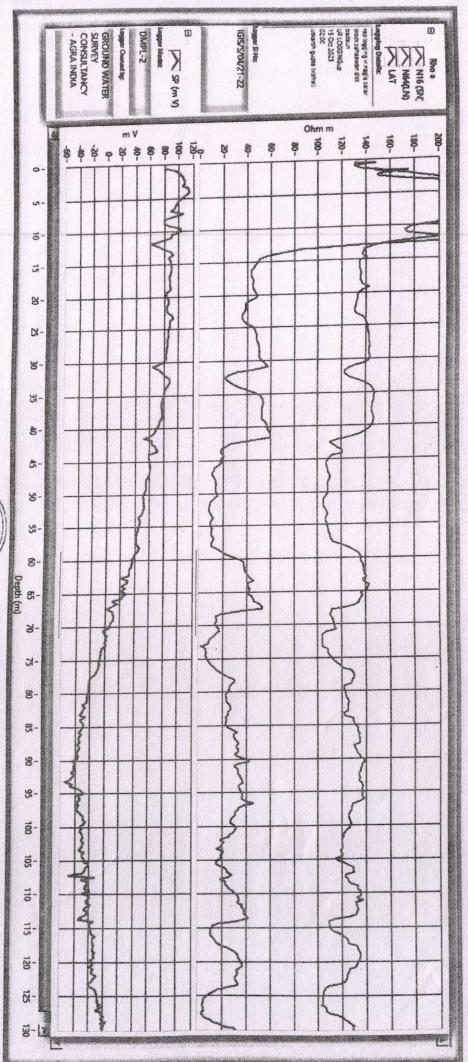
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### Conclusions and Recommendations :-

- The Lithology broadly tallies with that of drill cutting strata chart.
- The zones marked with asterisk (\*) appear to be aquifer zones for possible development of tubewell.
- 3. The Quality of water is expected Medium to 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.
- 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.



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