

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

Ref No:-A-1397

Date:- 15-08-2023

NAME OF SITE

GRAM PANCHAYAT- Rasoolpur

BLOCK- **USAWAN**

DISTT- Badaun

NAME OF AGENCY

M/s PNC-SPML-JV
Badaun



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

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Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- RASOOLPUR, BLOCK- MION, DISTT- BADAUN UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth 140 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 in the above bore hole using IGIS Well Logger on 15 Aug 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 - 18	13	Dry sand	
3.	18 - 30	12	Clay kankar	
4.	30 - 35	5	Fine sand	
5.	35 - 44	9	Clay kankar	
6.	44 - 50*	6	Medium sand	Medium
7.	50 - 55	5	Clay kankar	
8.	55 - 63*	8	Medium sand	Medium
9.	63 - 66	7	Clay kankar	
10.	66 - 70*	4	Fine to Medium sand	Medium
11.	70 - 75	5	Clay kankar	
12.	75 - 78*	3	Fine to Medium sand	Medium
13.	78 - 86	8	Clay kankar	
14.	86 - 95	9	Fine sand	Medium
15.	95 - 100	5	Clay kankar	
16.	100 - 120*	20	Medium sand	Medium
17.	120 - 136	16	Clay kankar	
18.	136 - 140	4	Fine sand	Medium

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 tube well.
3. The Quality of water is expected Medium.
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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