

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 519

Date:- 31-12-2022

NAME OF SITE

GRAM PANCHAYAT- Fazalpur Mafi BLOCK- Dhanaura DISTT- Amroha

NAME OF AGENCY

M/S SPML Infra Ltd.
Amroha



GROUND WATER SURVEY CONSULTANCY

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

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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- FAZALPUR MAFI, BLOCK- DHANAURA, DISTT- AMROHA
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 SPML Infra Ltd., Amroha.

On the request of M/S SPML Infra Ltd, Amroha. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 31.Dec.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 - 8	3	Dry sand	
3.	8 - 10	2	Clay	
4.	10 - 25	15	Sandy clay	
5.	25 - 35	10	Medium sand	Med to Good
6.	35 - 48	13	Clay kankar	
7.	48 - 58*	10	Medium sand	Med to Good
8.	58 - 64	6	Clay kankar	
9.	64 - 80*	16	Fine to Medium sand	Med to Good
10.	80 - 85	5	Clay kankar	
11.	85 - 106*	21	Medium sand	Med to Good
12.	106 - 109	3	Clay	
13.	109 - 123*	14	Medium sand	Med to Good
14.	123 - 130	7	Clay kankar	



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 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.
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.



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