

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTOLOGGING REPORT

Ref No:- 50

Date:- 13-11-2022

NAME OF SITE

GRAM PANCHAYAT- Makrandpur T Pipariya
DISTT- Pilibhit

BLOCK- Puranpur

NAME OF AGENCY

M/s Vishvaraj Environment Pvt. Ltd.



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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REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MAKRANDPUR T PIPARIYA, BLOCK- PURANPUR
DISTT.- PILIBHIT
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 150 mtrs. depth. and Logged depth 150 mtrs. at above site. Was drilled by M/s Vishvaraj Environment Pvt. Ltd.

On the request of M/s Vishvaraj Environment Pvt. Ltd. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 13.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 - 10	5	Fine sand	
3.	10 - 25	15	Clay kankar	
4.	25 - 50*	25	Fine to Medium sand	Good
5.	50 - 55	5	Clay kankar	
6.	55 - 62*	7	Fine to Medium sand	Good
7.	62 - 65	3	Clay kankar	
8.	65 - 68	3	Fine sand	Good
9.	68 - 72	4	Clay kankar	
10.	72 - 97*	25	Medium sand	Good
11.	97 - 104	7	Clay kankar	
12.	104 - 115*	11	Medium sand	Good
13.	115 - 120	5	Clay kankar	
14.	120 - 132*	12	Fine to Medium sand	Good
15.	132 - 145	13	Fine sand	Good
16.	145 - 147*	2	Fine to Medium sand	Good
17.	147 - 150	3	Clay	

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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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