

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-B- 316

Date:- 05-09-2024

NAME OF SITE

AT SITE- Satti

BLOCK- Amrauda

DISTT- Kanpur Dehat

NAME OF AGENCY

M/s Indian Hume Pipe Co. Ltd.
Kanpur



GROUND WATER SURVEY CONSULTANCY

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

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ISO ; 9001 : 2015

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REPORT ON GEOPHYSICAL WELL LOGGING AT

AT SITE- SATTI, BLOCK- AMRAUDA, DISTT- KANPUR DEHAT

Introduction :

A Deep bore hole was drilled 246 mtrs. depth and logged depth 240 mtrs. at above site was drilled by M/s Indian Hume Pipe Co. Ltd. Kanpur.

On the request of M/s Indian Hume Pipe Co. Ltd. Kanpur. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 05.Sep.2024.

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:-

Mud Resistivity = 16.89 Ohms.

Drilling Water Resistivity = 17.29 Ohms.

Approx Water Level = 43 Mtr.

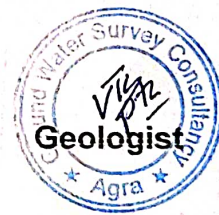
S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 35	30	Clay kankar	
3.	35 - 37	2	Kankar sand	
4.	37 - 48	11	Clay kankar	
5.	48 - 50	2	Fine sand	Good
6.	50 - 61	11	Clay kankar	
7.	61 - 65*	4	Fine to Medium sand	Good
8.	65 - 70	5	Clay kankar	
9.	70 - 73	3	Fine sand	Good
10.	73 - 91	18	Clay kankar	
11.	91 - 96*	5	Fine to Medium sand	Good
12.	96 - 109	13	Clay kankar	
13.	109 - 112	3	Fine sand & kankar	Good
14.	112 - 155	43	Clay kankar	
15.	155 - 166*	11	Fine to Med sand & kan	Good
16.	166 - 171	5	Clay kankar	
17.	171 - 183*	12	Medium sand	Good
18.	183 - 186	3	Clay kankar	
19.	186 - 190	4	Fine sand	Good
20.	190 - 195	5	Clay kankar	
21.	195 - 200*	5	Fine to Medium sand	Good
22.	200 - 210	10	Clay kankar	
23.	210 - 215	5	Fine sand	Good
24.	215 - 240	25	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.



Rho a
 NI6 (SN)
 NS4(LN)
 LAT
 Logging Details:
 Vol: Smt. B. S. Singh
 Dat: 04/01/2022
 OF: 00000000
 05 Sep 2024
 13.12
 Station Code: 100
 Logger S/N: IGIS/04/21-22
 Logger Model: SP (m V)
 DMP-2
 Logger Oriented by:
 GROUND WATER
 SURVEY
 CONSULTANCY
 - AGRA INDIA

