

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-A-2517

Date:- 16-01-2024

NAME OF SITE

AT SITE- Gahlon

BLOCK- Maitha

DISTT- Kanpur Dehat

NAME OF AGENCY

M/s Indian Hume Pipe Co. Ltd.
Auraiya



GROUND WATER SURVEY CONSULTANCY

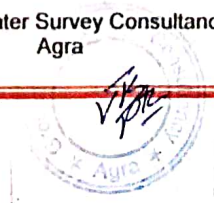
Electric Well Logging, Geophysical Resistivity Survey, Ground Water Investigations.

112 A-Shree Nagar Colony, Firozabad Road, Agra- 282006

(M) : 9412260823, 9794625420, 9761163000, Email : gwsc_agra@yahoo.com

ISO ; 9001 : 2015

Ground Water Survey Consultancy
Agra



REPORT ON GEOPHYSICAL WELL LOGGING
AT
AT SITE- GAHLON, BLOCK- MAITHA, DISTT- KANPUR DEHAT
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 280 mtrs. depth and logged depth 270 mtrs. at above site was drilled by M/s Indian Hume Pipe Co. Ltd. Auraiya.

On the request of M/s Indian Hume Pipe Co. Ltd. Auraiya. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 16.Jan.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 = 08.63 Ohms.

Drilling Water Resistivity = 09.50 Ohms.

Approx Water Level = 9 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 11	6	Clay kankar	
3.	11 - 20	9	Fine sand	Marginally saline
4.	20 - 28	8	Clay kankar	
5.	28 - 30	2	Fine sand	Marginally saline
6.	30 - 40	10	Clay kankar	
7.	40 - 45	5	Fine to Medium sand	Moderate
8.	45 - 50	5	Clay kankar	
9.	50 - 55	5	Fine sand	Marginally saline
10.	55 - 60	5	Clay kankar	
11.	60 - 68	8	Fine sand	Marginally saline
12.	68 - 79	11	Clay kankar	
13.	79 - 82	3	Fine sand	Marginally saline
14.	82 - 98	16	Clay kankar	
15.	98 - 103	5	Fine sand	Marginally saline
16.	103 - 110	7	Clay kankar	
17.	110 - 116	6	Fine sand	Marginally saline
18.	116 - 132	16	Clay kankar	
19.	132 - 138	6	Fine sand	Marginally saline
20.	138 - 152	14	Clay kankar	
21.	152 - 158	6	Fine sand	Marginally saline
22.	158 - 210	52	Clay kankar	
23.	210 - 230	20	Fine to Medium sand	Mod to Good
24.	230 - 240	10	Clay kankar	
25.	240 - 249	9	Fine to Medium sand	Mod to Good
26.	249 - 252	3	Clay kankar	
27.	252 - 256	4	Fine to Medium sand	Mod to Good
28.	256 - 270	14	Clay kankar	

Ground Water Survey Consultancy

Agra



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 Moderate to Good & Marginally saline.
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.


Geologist



