

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

**GEO-PHYSICAL WELL
ELECTOLOGGING REPORT**

Ref No:-A-1591

Date:- 07-09-2023

NAME OF SITE

GRAM PANCHAYAT- Jalesar Dehat Zone -2 BLOCK- Jalesar DISTT- Etah

NAME OF AGENCY

M/s ION Exchange India Limited
Etah



GROUND WATER SURVEY CONSULTANCY

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

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Ground Water Survey Consultancy



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- JALESAR DEHAT ZONE -2, BLOCK- JALESAR, DISTT-ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 120 mtrs. depth. and Logged depth 110 mtrs. at above site. Was drilled by M/s ION Exchange India Limited, Etah.

On the request of M/s ION Exchange India Limited, Etah. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 07.Sep.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:-

Mud Resistivity = 12.25 Ohms.

Drilling Water Resistivity = 13.25 Ohms.

Approx Water Level = 15 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 9	4	Clay kankar	
3.	9 - 15	6	Fine sand	
4.	15 - 20	5	Clay kankar	
5.	20 - 22	2	Fine sand	
6.	22 - 27	5	Clay kankar	
7.	27 - 35	8	Fine to Medium sand	Medium
8.	35 - 45	10	Sandy clay	
9.	45 - 53*	8	Medium sand	Medium
10.	53 - 70	17	Clay kankar	
11.	70 - 75*	5	Fine to Medium sand	Med to Marginally
12.	75 - 89	14	Clay kankar	
13.	89 - 95	6	Fine sand	Marginally saline
14.	95 - 110	15	Clay kankar	

Note :- Please ensure pre-monsoon water level before lower the well assembly.



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

Geophysicist



Ground Water Survey Consultancy

E Rho a
 N16 (SN)
 NS4(LIN)
 LAT
 Logging Details
 Report & Multiplier book
 Meter used: 0.01
 Date: 12/02/2022
 16.25
 (meter used: 0.01)

Logger S No: 105502/21-22
 Logger Model: SP (m V)
 DMR-2
 Logger Owned by: GROUND WATER SURVEY CONSULTANCY - AGRA INDIA

