

# GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

## GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:- C-156

Date:- 04-09-2022

### NAME OF SITE

GRAM PANCHAYAT- Murae Prahlad Nagar      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.

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

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**ISO ; 9001 : 2015**

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# REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MURAE PRAHLAD NAGAR, BLOCK- JALESAR  
DISTT- ETAH  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 111 mtrs. depth. and Logged depth 107 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 04.Sep.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:-

Mud Resistivity = 13.36 Ohms.

Drilling Water Resistivity = 13.75 Ohms.

Approx Water Level = 12 Mtr.

S.No.	Defth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 14	9	Fine sand	
3.	14 - 25	11	Clay kankar	
4.	25 - 30	5	Fine to Medium sand	Medium
5.	30 - 35	5	Clay kankar	
6.	35 - 38	3	Fine sand	Medium
7.	38 - 44	6	Clay kankar	
8.	44 - 50*	6	Fine to Medium sand	Medium
9.	50 - 64	14	Clay kankar	
10.	64 - 70*	6	Fine to Medium sand	Medium
11.	70 - 85	15	Clay kankar	
12.	85 - 90*	5	Fine to Medium sand	Medium
13.	90 - 107	17	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 tube well.
3. The Quality of water is expected Medium.
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**

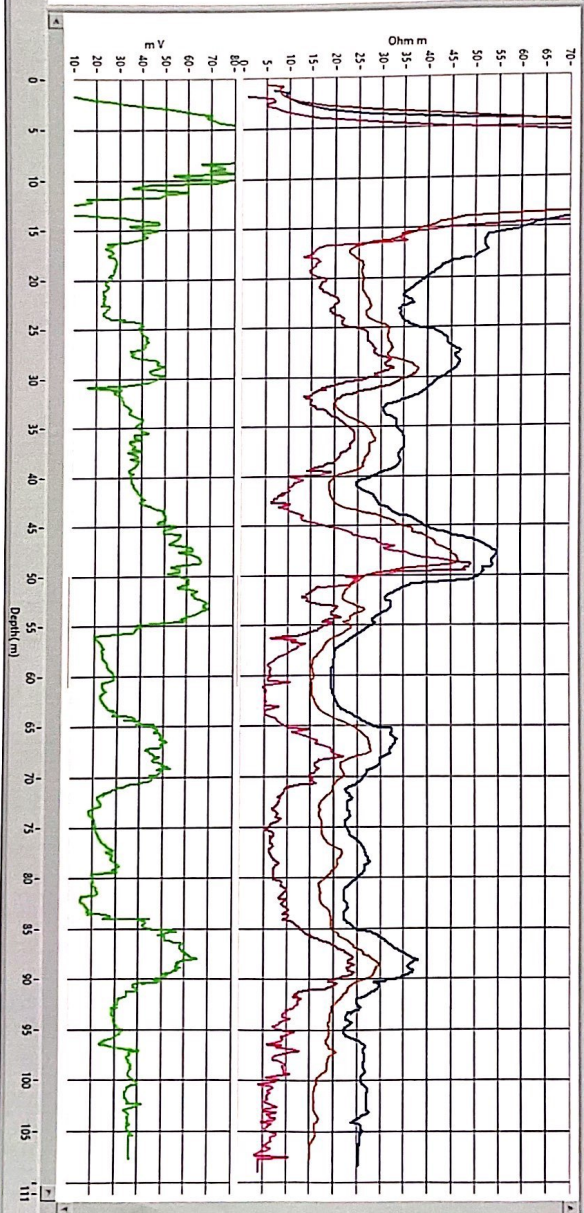


**Ground Water Survey Consultancy**

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 (N) 5000

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*Logging performed as per SWSM guidelines. Groundwater quality interpreted by firm as per their log calibration.*

ASSISTANT HYDROGEOLOGIST  
CIRCLE OFFICE (E/M)  
U.P. JAL NIGAM (RURAL)  
PRAYAGRAJ

