

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:- P- 549

A-673

Date:- 31-05-2023

NAME OF SITE

GRAM PANCHAYAT- Mohanpur 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.

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

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ISO ; 9001 : 2015

Ground Water Survey Consultancy
Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

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

Introduction :

A Deep bore hole was drilled 105 mtrs. depth. and Logged depth 94 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 31.May.2023

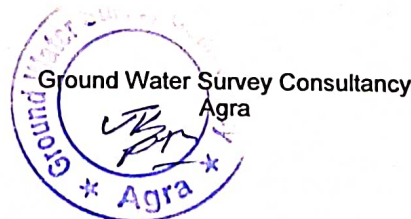
Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Lateral. Details of major Aquifer formations explored from logging of bore hole combined with the study of Strata Chart prepared from drill cuttings are given in the following table:-

Mud Resistivity = 15.50 Ohms.

Drilling Water Resistivity = 16.50 Ohms.

Approx Water Level = 18 Mtr.

S.No.	Depth range(m)	Thickness(m)	Lithology	Expected Water Quality
1.	0 - 5	5	Surface soil	
2.	5 - 18	13	Dry sand	
3.	18 - 20	2	Clay	
4.	20 - 25	5	Fine to medium sand	Medium
5.	25 - 43	18	Clay kankar	
6.	43 - 52*	9	Fine to medium sand	Medium
7.	52 - 58	6	Clay kankar	
8.	58 - 63	5	Fine sand	Medium
9.	63 - 80	17	Clay kankar	
10.	80 - 90*	10	Fine to medium sand	Medium
11.	90 - 94	4	Clay kankar	



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

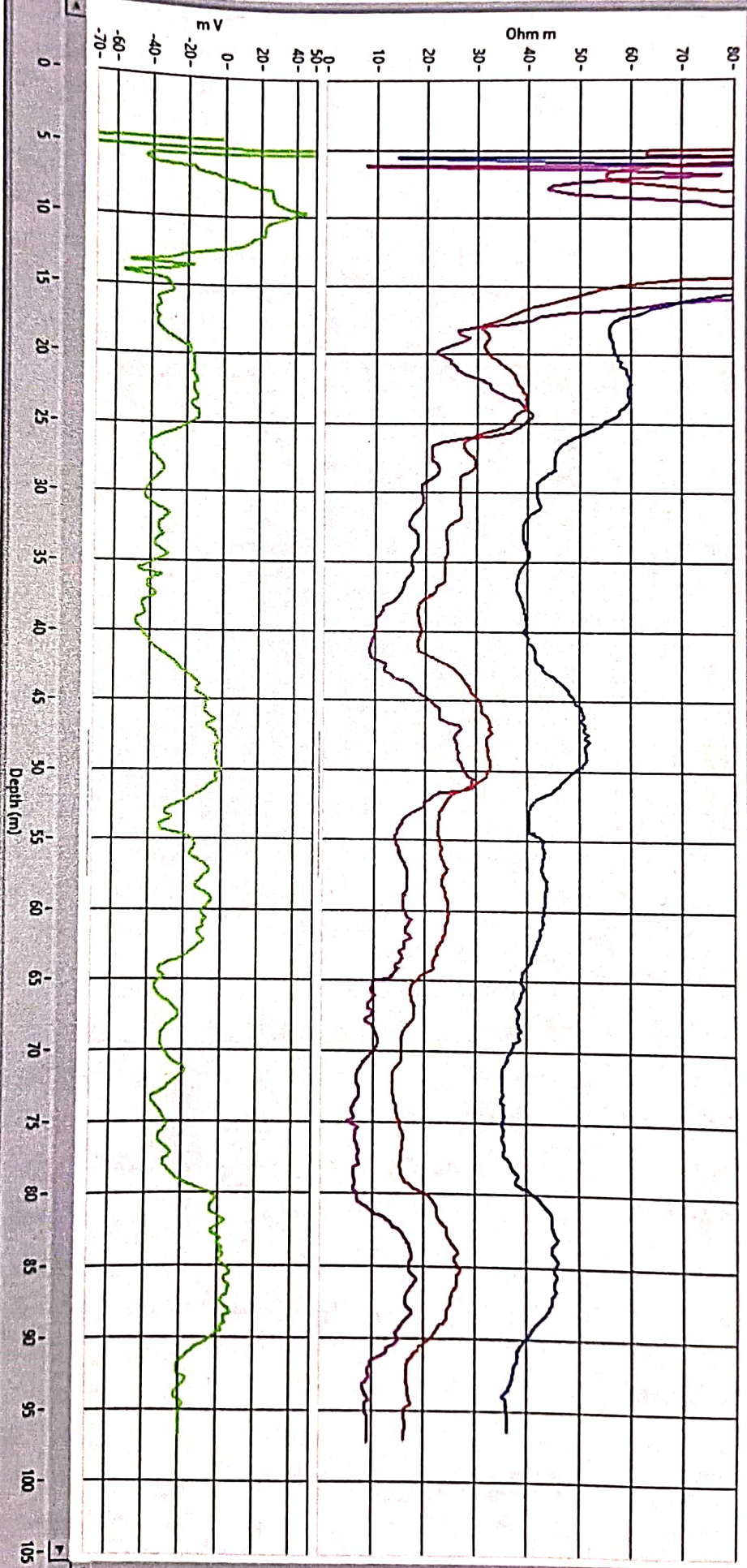
Rho a
N16 (SN)
NS4(LN)
LAT

Logging Details
Logging & Monitoring Zone
2. Block & Area name: GWT
ID: LOGG001
31 May 2023
10:18
Station name: (Area)

Logger S. No:
IGSS/08/21-22

Logger Model:
DHAPL-2
SP (m V)

Logger Created by:
GROUND WATER
SURVEY
CONSULTANCY
- AGRA INDIA



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Note Log responses are very weak. so correlate selected zones with driller lithology.

G.Ch

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- Logging performed as per SWSM guidelines.
- Groundwater quality interpreted by firm as per their logger calibration