

GROUND WATER SURVEY CONSULTANCY

GEOLOGISTS, GEOPHYSICISTS & TUBEWELL ENGINEERS

GEO-PHYSICAL WELL ELECTROLOGGING REPORT

Ref No:-A-1342

Date:- 12-08-2023

NAME OF SITE

GRAM PANCHAYAT- Mirzapur Sai

BLOCK- Sakit

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

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

ISO ; 9001 : 2015

Ground Water Survey Consultancy

Agra



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- MIRZAPUR SAI, BLOCK- SAKIT, DISTT-ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 90 mtrs. depth. and Logged depth 84 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 12.Aug.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 = 12.62 Ohms.

Drilling Water Resistivity = 13.09 Ohms.

Approx Water Level = 21 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 10 | 5 | Clay kankar | |
| 3. | 10 - 16 | 6 | Fine to Medium sand | |
| 4. | 16 - 21 | 5 | Clay kankar | |
| 5. | 21 - 43* | 22 | Fine to Medium sand | Medium |
| 6. | 43 - 50 | 7 | Clay kankar | |
| 7. | 50 - 60 | 10 | Sand & kankar | Med to Marginally |
| 8. | 60 - 74 | 14 | Clay kankar | |
| 9. | 74 - 82 | 8 | Fine sand | Maginally saline |
| 10 | 82 - 84 | 2 | 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 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

River

MIS 024

MSL (LN)

LA1

Logging Details

By: *[Signature]*

Date: 14 Aug 2023

Location: *[illegible]*

Project: *[illegible]*

Logger's Name

14/08/2023

SP (m V)

DNAPL 2

Logger Owned by

GROUND WATER
SURVEY
CONSULTANCY
- AGRA INDIA

