

GROUND WATER SURVEY CONSULTANCY
GEOLOGISTS, GEOPHYSICISTS & TUBEWELL-ENGINEERS

GEO-PHYSICAL WELL
ELECTROLOGGING REPORT

B-364
Ref No:- P- 308

Date:- 06-05-2023

NAME OF SITE

GRAM PANCHAYAT- Sikandarpur Madi

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
(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- SIKANDARPUR MADI, BLOCK- JALESAR, DISTT-ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth 100 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 06.May.2023

Logging Para meters - Self potential, short normal (N-16), Long Normal (N-64), Laterai. 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 = 15.28 Ohms.

Drilling Water Resistivity = 16.74 Ohms

Approx Water Level = 12 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 12 | 7 | Dry sand & kankar | |
| 3. | 12 - 16 | 4 | Fine sand | |
| 4. | 16 - 21 | 5 | Clay kankar | |
| 5. | 21 - 27 | 6 | Fine to Medium sand | Medium |
| 6. | 27 - 29 | 2 | Clay kankar | |
| 7. | 29 - 32 | 3 | Fine sand | Medium |
| 8. | 32 - 35 | 3 | Clay kankar | |
| 9. | 35 - 41 | 6 | Sand & kankar | Medium |
| 10. | 41 - 45 | 4 | Clay kankar | |
| 11. | 45 - 50* | 5 | Medium sand | Medium |
| 12. | 50 - 52 | 2 | Clay kankar | |
| 13. | 52 - 59* | 7 | Fine to Medium sand | Medium |
| 14. | 59 - 66 | 7 | Clay kankar | |
| 15. | 66 - 72* | 6 | Medium sand | Medium |
| 16. | 72 - 85 | 13 | Clay kankar | |
| 17. | 85 - 92* | 7 | Medium sand | Medium |
| 18. | 92 - 100 | 8 | Clay kankar | |

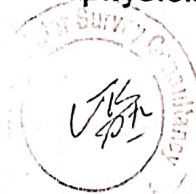
Ground Water Survey Consultancy

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 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

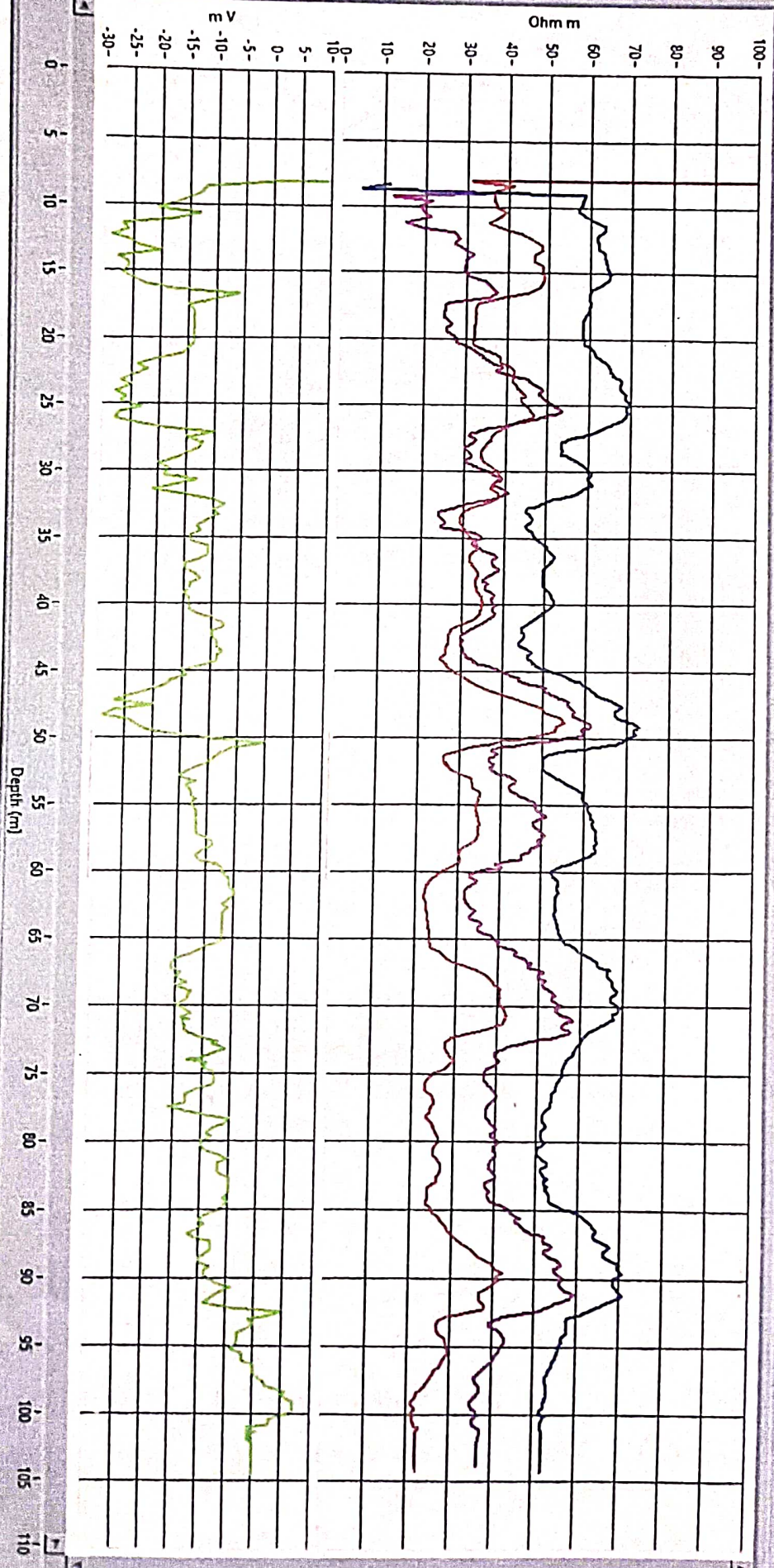
Rho s
 N15 (SN)
 NS4(LN)
 LAT

Logging Details:
 Date: 10/10/11
 Time: 11:30
 Location: Agra India

Logger's No:
 NS/S/01/10-11

SP (m V)

Logger Name:
 DMPT-2
 Logger Contact No:
 GROUND WATER
 SURVEY
 CONSULTANCY
 -AGRA INDIA



REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- SIKANDARPUR MADI, BLOCK- JALESAR, DISTT-ETAH
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 110 mtrs. depth. and Logged depth ~~100 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 06.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 = ~~15.28 Ohms.~~

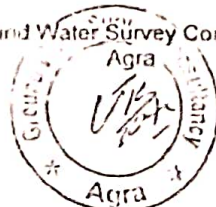
Drilling Water Resistivity = ~~16.74 Ohms.~~

Approx Water Level = 12 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|----------------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 12 | 7 | Dry sand & kankar | |
| 3. | 12 - 16 | 4 | Fine sand | |
| 4. | 16 - 21 | 5 | Clay kankar | |
| 5. | 21 - 27 | 6 | Fine to Medium sand | Medium |
| 6. | 27 - 29 | 2 | Clay kankar | |
| 7. | 29 - 32 | 3 | Fine sand | Medium |
| 8. | 32 - 35 | 3 | Clay kankar | |
| 9. | 35 - 41 | 6 | Sand & kankar | Medium |
| 10. | 41 - 45 | 4 | Clay kankar | |
| 11. | 45 - 50* | 5 | Medium sand | Medium |
| 12. | 50 - 52 | 2 | Clay kankar | |
| 13. | 52 - 59* | 7 | Fine to Medium sand | Medium |
| 14. | 59 - 66 | 7 | Clay kankar | |
| 15. | 66 - 72* | 6 | Medium sand | Medium |
| 16. | 72 - 85 | 13 | Clay kankar | |
| 17. | 85 - 92* | 7 | Medium sand | Medium |
| 18. | 92 - 100 | 8 | Clay kankar | |

G.Sh
08/05/23

Ground Water Survey Consultancy



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