

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- GARI KHEDAI, BLOCK- PATIYALI, DISTT- KASGANJ
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 125 mtrs. depth. and Logged depth 123 mtrs. at above site. Was drilled by M/S PNC-SPML-JV, Kasganj.

On the request of M/S PNC-SPML-JV, Kasganj. a Geophysical well Logging is conduct at above bore hole using IGIS Well Logger on 12.April 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 = 14.27 Ohms.

Drilling Water Resistivity = 15.50 Ohms.

Approx Water Level = 9 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 8 | 3 | Dry sand | |
| 3. | 8 - 10 | 2 | Clay kankar | |
| 4. | 10 - 13 | 3 | Fine sand | |
| 5. | 13 - 27 | 14 | Clay kankar | |
| 6. | 27 - 36 | 9 | Fine to Medium sand | Medium |
| 7. | 36 - 50 | 14 | Clay kankar | |
| 8. | 50 - 57* | 7 | Medium sand | Medium |
| 9. | 57 - 62 | 5 | Clay kankar | |
| 10. | 62 - 69* | 7 | Medium sand | Medium |
| 11. | 69 - 88 | 9 | Clay kankar | |
| 12. | 88 - 102* | 14 | Medium sand | Medium |
| 13. | 102 - 115 | 13 | Clay kankar | |
| 14. | 115 - 121* | 6 | Fine to Medium sand | Medium |
| 15. | 121 - 123 | 2 | Clay kankar | |

SON 08 - 53 - 52
(3M)

G. Gh
12/04/23

Ground Water Survey Consultancy



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