

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NARAYANPUR ALHAD, BLOCK- PASGAWAN,
DISTT- LAKHIMPUR KHIRI
UNDER
JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 165 mtrs. depth. and Logged depth 165 mtrs. at above site. Was drilled by M/s NCC, Lakhimpur Khiri.

On the request of M/s NCC, Lakhimpur Khiri. a Geophysical well Logging in the above bore hole using IGIS Well Logger on 01.Dec.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 = 21.60 Ohms.

Drilling Water Resistivity = 22.52 Ohms.

Approx Water Level = 2 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 10 | 5 | Fine sand | |
| 3. | 10 - 14 | 4 | Clay kankar | |
| 4. | 14 - 26 | 12 | Medium sand | Good |
| 5. | 26 - 30 | 4 | Clay kankar | |
| 6. | 30 - 35 | 5 | Fine sand | Good |
| 7. | 35 - 46 | 11 | Clay kankar | |
| 8. | 46 - 53* | 7 | Medium sand | Good |
| 9. | 53 - 71 | 18 | Clay kankar | |
| 10. | 71 - 103* | 32 | Medium sand | Good |
| 11. | 103 - 109 | 6 | Kankar | |
| 12. | 109 - 116* | 7 | Medium sand | Good |
| 13. | 116 - 121 | 5 | Kankar | |
| 14. | 121 - 136* | 15 | Medium sand | Good |
| 15. | 136 - 143 | 7 | Clay kankar | |
| 16. | 143 - 150* | 7 | Medium sand | Good |
| 17. | 150 - 157 | 7 | Clay kankar | |
| 18. | 157 - 165* | 8 | Fine to Medium sand | Good |

Ground Water Survey Consultancy



Dt - 1/12/23

In P. Narayanpur Alhad Block - Palgawan - Lakhimpur
 Reg - 390cm Size - 200x150 / 18m

Lagging Dt - 01/12/23

- 8 - 46 - 53 = 7
- 10 - 71 - 103 = 32 = 6
- 12 - 109 - 116 = 7 = 6
- 14 - 121 - 136 = 15 = 6
- 16 - 143 - 150 = 7
- 18 - 157 - 165 = 8

Total = 48 + 20 + 42 + 14 + 12 + 18
 = 134.20 - 0.5AGL
 = 133.70

up of
 1/12/23

