

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- NIZAMPUR, BLOCK- KUMBHI GOLA,
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 28.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 = 18.47 Ohms.

Drilling Water Resistivity = 19.73 Ohms.

Approx Water Level = 5 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 15 | 10 | Clay kankar | |
| 3. | 15 - 42 | 27 | Fine to Medium sand | Good |
| 4. | 42 - 50 | 8 | Clay kankar | |
| 5. | 50 - 57 | 7 | Medium sand | Good |
| 6. | 57 - 60 | 3 | Clay kankar | |
| 7. | 60 - 75* | 15 | Medium sand | Good |
| 8. | 75 - 80 | 5 | Clay kankar | |
| 9. | 80 - 90* | 10 | Medium sand | Good |
| 10. | 90 - 95 | 5 | Clay kankar | |
| 11. | 95 - 106* | 11 | Medium sand | Good |
| 12. | 106 - 115 | 9 | Clay kankar | |
| 13. | 115 - 133* | 18 | Medium sand | Good |
| 14. | 133 - 142 | 9 | Clay kankar | |
| 15. | 142 - 151* | 9 | Medium sand | Good |
| 16. | 151 - 165 | 14 | Clay kankar | |

Ground Water Survey Consultancy
Agra



NRC(L)

Nizam pur. Kumbhigola, U.P

Discharge - 600 LPM

300x150 mm
24

Report - 28/12/23

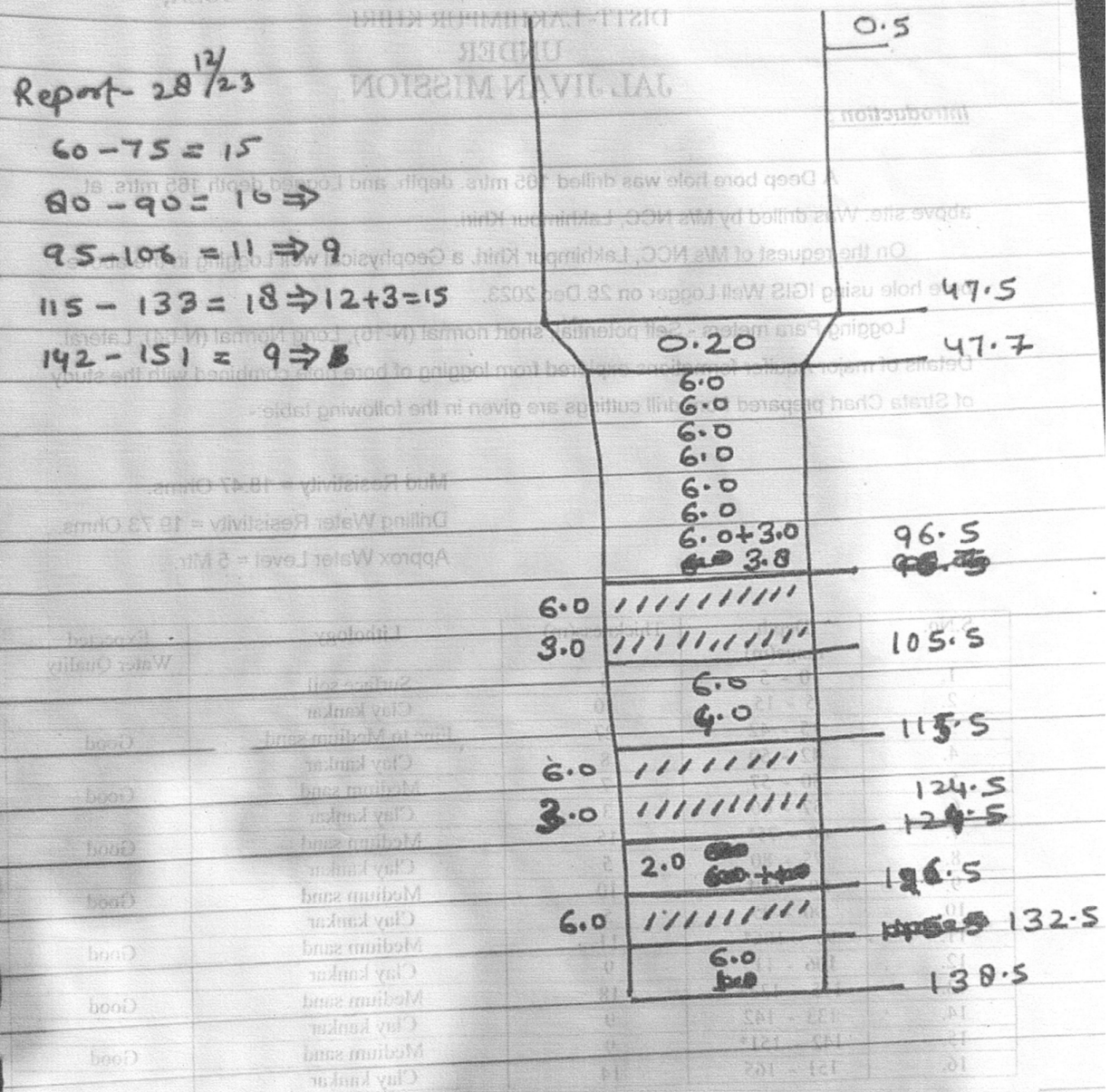
60 - 75 = 15

80 - 90 = 10

95 - 106 = 11

115 - 133 = 18 ⇒ 12 + 3 = 15

142 - 151 = 9



| | | |
|-----|------|-------|
| 6.0 | //// | 96.5 |
| 3.0 | //// | 105.5 |
| 6.0 | //// | 115.5 |
| 3.0 | //// | 124.5 |
| 2.0 | //// | 129.5 |
| 6.0 | //// | 132.5 |
| 6.0 | //// | 138.5 |