

# GEO INSTRUMENTS & TECHNIC'S

(A Division of Geophysical Exploration and Instrumentation)

Sales & Service Dealer : Uptron Borehole logging system, UPTRON INDIA LTD., LUCKNOW

Ref:GIT:UP: PJM:21-22:LS: 78

Dated: 16-12-2021

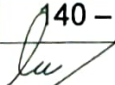
## GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: **Kotharital**  
Block: **Payagpur**  
District: **Bahraich**  
State: **Uttar Pradesh**  
Date of logging: **15-12-2021**  
Drilling depth: **225.0 m bgl**  
Logging Depth: **215.0 m bgl**  
Rm – **26.0  $\Omega$ m** Rw – **30.0  $\Omega$ m**

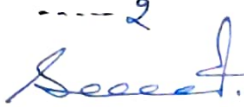
Borehole Drilled by: **M/s PNC Infratech**

Based on the interpretation of **Self Potential (SP)**, **Short Normal (N-16")**, **Long Normal (N-64")** and **Lateral 6'**, geophysical logs following informations/granular zones have been deciphered:

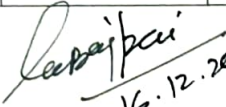
| Sl. No. | Depth Range (mbgl) | Thickness (meter) | Inferred lithology                         | Remark (Quality of Aquifer Water) |
|---------|--------------------|-------------------|--------------------------------------------|-----------------------------------|
| 1.      | 05 – 18            | 13                | Surface Soil                               |                                   |
| 2.      | 18 – 28            | 10                | Clay                                       |                                   |
| 3.      | 28 – 50            | 22                | Sand intermixed with Kankar                | Good                              |
| 4.      | 50 – 60            | 10                | Sandy Clay                                 |                                   |
| 5.      | 60 – 75            | 15                | Sand intermixed with Kankar                | Good                              |
| 6.      | 75 – 93            | 18                | Fine to Medium Sand intermixed with Kankar | Good                              |
| 7.      | 93 – 114           | 21                | Sandy Clay intermixed with kankar          |                                   |
| 8.      | 114 – 125          | 11                | Sand intermixed with Kankar                | Good                              |
| 9.      | 125 – 130          | 05                | Prominent Clay                             |                                   |
| 10.     | 130 – 133          | 03                | Sandy Clay                                 |                                   |
| 11.     | 133 – 136          | 03                | Clay                                       |                                   |
| 12.     | 136 – 140          | 04                | Sand                                       | Good                              |
| 13.     | 140 – 142          | 02                | Clay                                       |                                   |

  
**R. K. Bajpai**  
Hydrogeologist & Ground  
Water Consultant  
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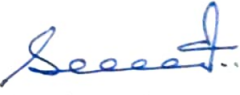
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|     |           |    |                                            |      |
|-----|-----------|----|--------------------------------------------|------|
| 14. | 142 – 157 | 15 | Sand intermixed with Kankar                | Good |
| 15. | 157 – 161 | 04 | Sandy Clay                                 |      |
| 16. | 161 – 177 | 16 | Fine Sand intermixed with Kankar           | Good |
| 17. | 177 – 185 | 08 | Sandy Clay                                 |      |
| 18. | 190 – 194 | 04 | Sandy Clay                                 |      |
| 19. | 194 – 200 | 06 | Fine to Medium Sand intermixed with Kankar | Good |
| 20. | 200 – 203 | 03 | Sandy Clay                                 |      |
| 21. | 203 – 207 | 04 | Sand                                       | Good |
| 22. | 207 – 210 | 03 | Sandy Clay                                 |      |
| 23. | 210 – 215 | 05 | Sand intermixed with Kankar                | Good |

  
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 (S. Shukla)