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## GEO INSTRUMENTS & TECHNIC'S

(A Division of Geophysical Exploration and Instrumentation)

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

Ref.GIT:UP: PJM:23-24:LS: 795

Dated: 17-06-2023

### GEOPHYSICAL BOREHOLE LOGGING REPORT

Site: Bhopalpur  
Block: Itwa  
District: Siddharth Nagar  
State: Uttar Pradesh  
Drilling Depth: 170.0 m bgl  
Logging Depth: 165.0 m bgl  
Date of logging: 16-06-2023  
Rm - 20.0 Qm Rw - 18.0 Qm

$Q = 500 \text{ LPM}$   
T/w size = 150x200mm  
165/150m  
= 18m (slotted)

Borehole Drilled by: M/s VSAIPPL- SCL (JV), Siddharth Nagar, U. P.

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 with respect to Salinity only:

| Sl. No. | Depth Range (m bgl) | Thickness (meter) | Remark (Quality of Aquifer Water) |
|---------|---------------------|-------------------|-----------------------------------|
| 1.      | 28 - 35             | 07                | Good                              |
| 2.      | 41 - 45             | 04                | Good                              |
| 3.      | 55 - 62             | 07                | Good                              |
| 4.      | 67 - 74             | 07 = 6            | Good                              |
| 5.      | 76 - 80             | 04                | Good                              |
| 6.      | 90 - 94             | 04                | Good                              |
| 7.      | 98 - 105            | 07 = 06           | Good                              |
| 8.      | 118 - 128           | 10 = 06           | Good                              |
| 8.      | 156 - 165           | 09                | Good                              |

Note: 1. Fine bands of kankar are intermixed with almost all the zones.

2. Zone Sl. No. 8 is highly intermixed with fine bands of kankar.

Verified as per logs provided

For Geo Instruments & Technic's

S. Shukla  
(S. Shukla)

GSh  
17/06/23

Regd. Office : V.V.I.P. Road, Near Pakri Ka Pul, Alambagh, Lucknow - 226 005







# VSAIPPL-SCL JOINT VENTURE

SWS PROJECT, SIDDHARTH NAGAR, U.P

STRATA CHART

Block Name: J11110

Order Agreement No.:

Name of District: Siddharth Nagar

Scheme Name: Chhapra

Name of Activity:

| Depth B.C.L. Meter | Boring Chart | Strata                | Executed Assembly |
|--------------------|--------------|-----------------------|-------------------|
| 20                 |              | Clay                  | 5.00              |
|                    |              | Clay                  | 5.99              |
|                    |              | Clay                  | 6.00              |
|                    |              | Clay                  | 6.00              |
|                    |              | Clay                  | 6.00              |
| 20                 |              | Fine sand             | 6.00              |
|                    |              | Kankar                | 6.01              |
| 35                 |              | Clay                  | 6.03              |
| 41                 |              | Fine sand             | 41.52             |
|                    |              | Kankar                | 0.20              |
| 45                 |              | Clay                  | 41.72             |
|                    |              | Clay                  | 6.03              |
|                    |              | Clay                  | 5.99              |
| 55                 |              | Medium sand w/ Kankar | 5.97              |
|                    |              | Clay                  | 1.70              |
| 62                 |              | Clay                  | 5.97              |
|                    |              | Clay                  | 67.38             |
| 67                 |              | Fine sand             | 73.39             |
|                    |              | Clay                  | 73.39             |
| 74                 |              | Fine sand             | 6.03              |
|                    |              | Clay                  | 6.01              |
| 76                 |              | Fine sand             | 6.01              |
| 80                 |              | Clay                  | 2.54              |
|                    |              | Clay                  | 4.50              |
| 90                 |              | Medium sand           | 6.03              |
|                    |              | Clay                  | 98.50             |
| 94                 |              | Fine sand             | 104.49            |
|                    |              | Kankar                | 104.49            |
| 105                |              | Clay                  | 6.01              |
|                    |              | Clay                  | 2.50              |
| 110                |              | Fine sand             | 6.01              |
|                    |              | Highly Kankar         | 119.01            |
| 120                |              | Clay                  | 125.02            |
|                    |              | Clay                  | 6.00              |
| 131                |              | Clay                  | 131.02            |
|                    |              | Clay                  | 10.50             |
| 136                |              | Clay                  | 131.52            |
|                    |              | Medium sand w/ Kankar |                   |
| 142                |              | Medium sand w/ Kankar |                   |

ASSEMBLY OF DETAILS

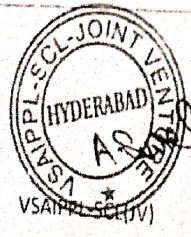
|  |                           |
|--|---------------------------|
| 200mm dia housing pipe                         | to 91.52 M                |
| 200x150mm reducer                              | from 91.52 M to 91.72 M   |
| 150mm dia plain pipe                           | from 91.72 M to 67.30 M   |
| 150mm dia slotted pipe                         | from 67.30 M to 73.39 M   |
| 150mm dia plain pipe                           | from 73.39 M to 90.50 M   |
| 150mm dia slotted pipe                         | from 90.50 M to 109.49 M  |
| 150mm dia plain pipe                           | from 109.49 M to 119.01 M |
| 150mm dia slotted pipe                         | from 119.01 M to 125.02 M |
| 150mm dia plain pipe                           | from 125.02 M to 131.02 M |
| Total Assembly: 131.02 M + AGL D.S. = 131.52 M |                           |

ABSTRACT

|                   |         |
|-------------------|---------|
| Date of Lowering: | 19-6-23 |
| LPM:              | 500     |
| Drilling Depth:   | 170 M   |
| Assembly Lowered: | 131.52  |
| Housing Pipe:     | 42.02 M |
| Plain Pipe:       | 71.29 M |
| Slotted Pipe:     | 10.01 M |
| Reducer:          | 0.20 M  |

LOGGING REPORT

|                  |           |
|------------------|-----------|
| Date of Logging: | 16-6-2023 |
| Logging Depth:   | 165       |
| 1) 20-35         | = 7       |
| 41-45            | = 4       |
| 55-62            | = 7       |
| 67-74            | = 7       |
| 76-80            | = 4       |
| 90-94            | = 4       |
| 98-105           | = 7       |
| 110-120          | = 10      |
| 156-165          | = 9       |



*[Signature]*  
TPI

*[Signature]*  
J.E.

*[Signature]*  
A.E.

E.E.



Actually pipe measurement - Date :

GP - Bhopalpur, Block - Itara.

200 mm  $\phi$  plain pipe

1. 6.02 m ✓
2. 6.05 m ✓
3. 6.00 m ✓
4. 6.00 m ✓
5. 6.01 m ✓
6. 6.02 m ✓
7. 6.02 m ✓
8. 6.02 m ✓

150 mm  $\phi$  plain pipe

- |                         |               |
|-------------------------|---------------|
| 1. 6.02 m ✓             | 16 - 2.54 m ✓ |
| 2. 6.00 m ✓             |               |
| 3. 6.02 m ✓             | 17 → 2.50 m ✓ |
| 4. 6.01 m ✓             |               |
| 5. 6.01 m (4.50 + 1.50) | 18 → 1.6 m ✓  |
| 6. 6.01 m ✓             |               |
| 7. 6.01 m ✓             |               |
| 8. 6.00 m ✓             |               |
| 9. 6.00 m ✓             |               |
| 10. 6.00 m ✓            |               |
| 11. 6.00 m ✓            |               |
| 12. 6.01 m ✓            |               |
| 13. 6.00 m ✓            |               |
| 14. 6.01 m ✓            |               |
| 15. 6.00 m ✓            |               |

150 mm  $\phi$  slotted pipe

- 1 - 6.00 ✓
- 2 - 6.00 ✓
- 3 - 6.00 ✓