

## COMPLETION PLAN OF TUBEWELL

**Name of work** :- Construction of T. W. of G.P. Chak Lakhimpur Block- Dhaurahara, District, Lakhimpur Kheri.

**Name of Program** :- J. J. M-2

**Name of client** :- S.W.S.M. & U.P. JAL NIGAM ( R)

**Name of Contractor** :- M/S NCC Limited

**Name of TPI** :- Ceinsys Tech Limited

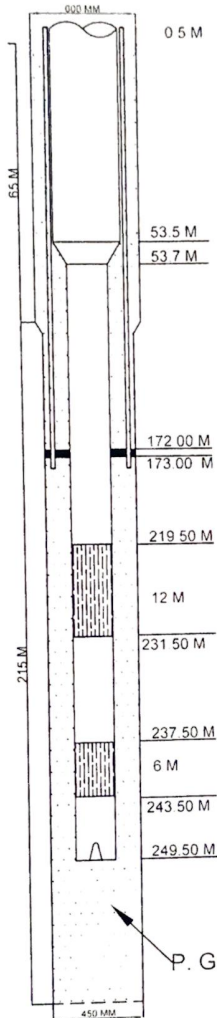
**Contract Agreement** :- 64/ED/2020-21 Dated on 12.03.2021

**Cover Agreement** :- 464/ED/Phase-2/2022-23/XI, Dt. 27.02.2023

**Lowered Assembly Chart of T. W of G.P Chak Lakhimpur W/S Scheme District :- Lakhimpur Kheri.**

### Strata

|           |                      |
|-----------|----------------------|
| 0-5 M     | Surface soil         |
| 5-30 M    | Clay Kankar          |
| 30-38 M   | Fine to Med Sand     |
| 38-42 M   | Clay Kankar          |
| 42-53 M   | Medium Sand          |
| 53-60 M   | Clay Kankar          |
| 60-71 M   | Medium Sand          |
| 71-88 M   | Clay Kankar          |
| 88-92 M   | Fine to Med Sand     |
| 92-97 M   | Clay Kankar          |
| 97-105 M  | Med Sand             |
| 105-111 M | Clay Kankar          |
| 11-140 M  | Medium Sand          |
| 140-148 M | Clay Kankar          |
| 148-170 M | Med Sand             |
| 170-180 M | Clay Kankar          |
| 180-190 M | Fine to M. Med Sand. |
| 190-193 M | Clay Kankar          |
| 193-244 M | Med Sand.            |
| 244-251 M | Clay Kankar          |
| 251-260 M | Fine sand            |
| 260-266 M | Clay Kankar          |
| 266-278 M | Medium Sand          |
| 278-280 M | Clay Kankar          |



### ABSTRACT

|    |                          |              |
|----|--------------------------|--------------|
| 1  | Type of Rig Machine      | - DC/RC      |
| 2  | Static Water level       | -            |
| 3  | Required Discharge       | - 470 LPM    |
| 4  | Bore Size (MM)           | - 600x450    |
| 5  | Assembly Size (MM)       | - 200 x 150  |
| 6  | Drilling Starting Date   | - 26 12 2023 |
| 7  | Drilling Completion Date | - 30 12 2023 |
| 8  | Total Depth Of Drilling  | - 280 M      |
| 9  | Logging Date             | - 31 12 2023 |
| 10 | Logging Depth            | - 280 M      |

### Logging Report

| Sl.No | Depth (mbgl) | Thickness (m) | Remarks                        |
|-------|--------------|---------------|--------------------------------|
| 1     | 88-92        | 04            | Fine to Medium Sand (Good All) |
| 2     | 97-105       | 08            |                                |
| 3     | 111-140      | 29            |                                |
| 4     | 148-170      | 22            |                                |
| 5     | 180-190      | 10            |                                |
| 6     | 193-244      | 51            |                                |
| 7     | 251-260      | 09            |                                |
| 8     | 266-278      | 12            |                                |

| Sr No | Description                  | Zone-1 (193-244 M)<br>Fluoride (mg/l) | Zone-2 (150-190 M)<br>Fluoride (mg/l) | Zone-3 (148-170 M)<br>Fluoride (mg/l) |
|-------|------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 1     | Fluoride (as F) <sup>-</sup> | 1.00 / 0.484                          | 1.00 / 0.607                          | 1.00 / 0.609                          |
| 2     | Iron (As Fe) <sup>+</sup>    | 1.00 / 0.410                          | 1.00 / 0.610                          | 1.00 / 1.090                          |
| 3     | Total Arsenic (As As)        | 0.01 / 0.008                          | 0.01 / 0.010                          | 0.01 / 0.012                          |

### 11. Details of Lowered Assembly

|      |                               |                      |
|------|-------------------------------|----------------------|
| i)   | 300 mm Dia Housing Pipe       | - 54.00 Meter        |
| ii)  | 150 mm Dia M. S. Slotted pipe | - 18.00 Meter        |
| iii) | 150 mm Dia M. S. Plain pipe   | - 177.80 Meter       |
| iv)  | 300 x 150 mm Dia M S Reducer  | - 0.20 Meter         |
|      |                               | Total - 250.00 Meter |
|      |                               | AGI - 00.50 Meter    |
|      |                               | BGL - 249.50 Meter   |
| 12   | 90mm dia uPVC                 | - 174.5x2=349 Meter  |
| 13   | Date of Lowering              | - 09 01 2024         |

Recommended & Prepared by

Verified by

Recommended by

Approved by

M/S. NCC Ltd.

M/S. Ceinsys Tech Ltd.

J.E.  
Division Office (E/M)  
UP Jal Nigam (R)  
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# REPORT ON GEOPHYSICAL WELL LOGGING

AT

GRAM PANCHAYAT- CHACK LAKHIMPUR, BLOCK- DHAUREHRA, DISTT-LAKHIMPUR KHIRI  
UNDER  
JAL JIVAN MISSION

## Introduction :

A Deep bore hole was drilled 280 mtrs. depth. and Logged depth 280 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 31.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:-

Location = Chack Lakhimpur

Mud Resistivity = 20.36 Ohms.

Latitude = 27.97216666666665°

Drilling Water Resistivity = 21.27 Ohms.

Longitude = 81.17937333333333°

Approx Water Level = 3 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology           | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1.    | 0 - 5          | 5            | Surface soil        |                        |
| 2.    | 5 - 30         | 25           | Clay kankar         |                        |
| 3.    | 30 - 38        | 8            | Fine to medium sand |                        |
| 4.    | 38 - 42        | 4            | Clay kankar         |                        |
| 5.    | 42 - 53        | 11           | Medium sand         | Good                   |
| 6.    | 53 - 60        | 7            | Clay kankar         |                        |
| 7.    | 60 - 71        | 11           | Kankar sand         | Good                   |
| 8.    | 71 - 88        | 17           | Clay kankar         |                        |
| 9.    | 88 - 92*       | 4            | Fine to Medium sand | Good                   |
| 10.   | 92 - 97        | 5            | Clay kankar         |                        |
| 11.   | 97 - 105*      | 8            | Medium sand         | Good                   |
| 12.   | 105 - 111      | 6            | Clay kankar         |                        |
| 13.   | 111 - 140*     | 29           | Medium sand         | Good                   |
| 14.   | 140 - 148      | 8            | Clay kankar         |                        |
| 15.   | 148 - 170*     | 22           | Medium sand         | Good                   |
| 16.   | 170 - 180      | 10           | Clay kankar         |                        |
| 17.   | 180 - 190*     | 10           | Fine to Medium sand | Good                   |
| 18.   | 190 - 193      | 3            | Clay kankar         |                        |
| 19.   | 193 - 244*     | 51           | Medium sand         | Good                   |
| 20.   | 244 - 251      | 7            | Clay kankar         |                        |
| 21.   | 251 - 260*     | 9            | Medium sand         | Good                   |
| 22.   | 260 - 266      | 6            | Clay kankar         |                        |
| 23.   | 266 - 278*     | 12           | Medium sand         | Good                   |
| 24.   | 278 - 280      | 2            | Clay kankar         |                        |

Ground Water Survey Consultancy

