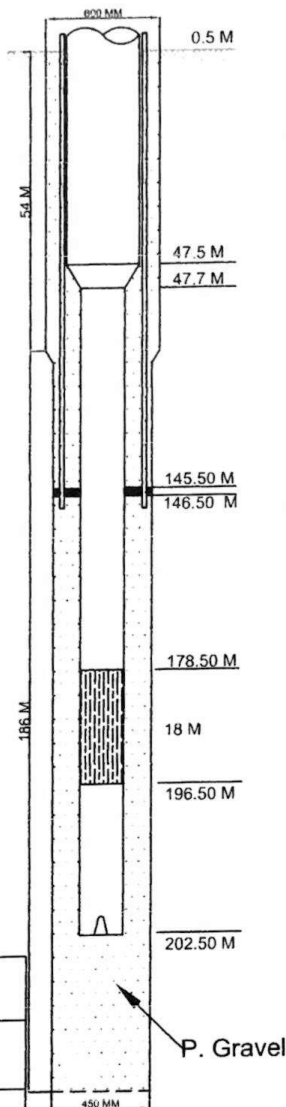


COMPLETION PLAN OF TUBEWELL

Name of work :- Construction of T. W. of G.P. Sumer Nagar Colony Block-Palia, 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 :- 816/ED/Phase-2/2023-24/XIX, Dt. 11.05.2023
Lowered Assembly Chart of T. W of Sumer Nagar Colony G.P W/S Scheme District :- Lakhimpur Kheri.

Strata

| |
|------------------------------|
| 0-5 M, Surface Clay |
| 5-10 M, Clay Kankar |
| 10-15 M, Medium Sand |
| 15-20 M, Clay Kankar |
| 20-30 M, Medium Sand |
| 30-35 M, Clay Kankar |
| 35-46M, Fine to Medium Sand |
| 46-52 M, Clay Kankar |
| 52-96 M, Medium Sand |
| 96-102 M, Clay Kankar |
| 102-110 M, Medium Sand |
| 110-112 M, Clay Kankar |
| 112-118 M, Medium Sand |
| 118-122 M, Clay Kankar |
| 122-131 M, fine to Med. Sand |
| 131-140 M, Clay Kankar |
| 140-144 M, Medium Sand |
| 144-158 M, Clay Kankar |
| 158-171 M, Medium Sand |
| 171-178 M, Clay Kankar |
| 178-201 M, Medium Sand |
| 118-122 M, Clay Kankar |
| 122-131M, fine to Med. Sand |
| 122-131 M, fine to Med. Sand |
| 131-140 M, Clay Kankar |
| 140-144 M, Medium Sand |
| 144-158 M, Clay Kankar |
| 158-171 M, Medium Sand |
| 171-178 M, Clay Kankar |
| 178-201 M, Medium Sand |
| 201-210 M, Clay Kankar |
| 210-216M, fine to Med. Sand |
| 216-220M, fine to Med. Sand |



ABSTRACT

| | | |
|----|--------------------------|---------------|
| 1 | Type of Rig Machine | :- DC/RC |
| 2 | Static Water level | :- |
| 3 | Required Discharge | :- 350 LPM |
| 4 | Bore Size (MM) | :- 600x450 |
| 5 | Assembly Size (MM) | :- 200 x 150 |
| 6 | Drilling Starting Date | :- 28.10.2023 |
| 7 | Drilling Completion Date | :- 02.11.2023 |
| 8 | Total Depth Of Drilling | :- 240 M |
| 9 | Logging Date | :- 03.11.2023 |
| 10 | Logging Depth | :- 220 M |

Logging Report

| Sl.No | Depth (mbgl) | Thickness (m) | Remarks |
|-------|--------------|---------------|--------------------------------|
| 1 | 52-96 | 44 | Fine to Medium Sand (Good All) |
| 2 | 102-110 | 08 | |
| 3 | 112-118 | 06 | |
| 4 | 122-131 | 09 | |
| 5 | 140-144 | 04 | |
| 6 | 158-171 | 13 | |
| 7 | 178-201 | 23 | |
| 8 | 210-216 | 06 | |

11. Details of Lowered Assembly

| | |
|-----------------------------------|----------------------|
| i) 300 mm Dia Housing Pipe | :- 48.00 Meter |
| ii) 150 mm Dia M. S. Slotted pipe | :- 18.00 Meter |
| iii) 150 mm Dia M. S. Plain pipe | :- 136.80 Meter |
| iv) 300 x 150 mm Dia M S Reducer | :- 0.20 Meter |
| Total | :- 203.00 Meter |
| AGI | :- 00.50 Meter |
| BGL | :- 202.50 Meter |
| 12. 90mm dia uPVC | :- 147.5x2=295 Meter |
| 13. Date of Lowering | :- 17.11.2023 |

| Sr. No | Description | Zone-1 (178-201 M) Average Lead / Test result | Zone-2 (158-171 M) Average Lead / Test result |
|--------|------------------------------|---|---|
| 1 | Fluoride (as F) ⁻ | 1.00 / 0.698 | 1.00 / 0.648 |
| 2 | Iron (As Fe) ⁺ | 1.00 / 0.840 | 1.00 / 1.180 |
| 3 | | 0.01 / | 0.01 / |
| | Total Arsenic (As As) | 0.008 | 0.012 |

Recommended & Prepared by

Verified by

Recommended by

Approved by

M/S. NCC Ltd.

M/S. Ceinsys Tech Ltd.

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

GRAM PANCHAYAT- SUMER NAGAR COLONY, BLOCK- PALIA, DISTT- LAKHIMPUR KHIRI UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 240 mtrs. depth. and Logged depth 220 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 03.Nov.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 = 19.50 Ohms.

Drilling Water Resistivity = 20.08 Ohms.

Approx Water Level = 3 Mtr.

| S.No. | Depth range(m) | Thickness(m) | Lithology | Expected Water Quality |
|-------|----------------|--------------|---------------------|------------------------|
| 1. | 0 - 5 | 5 | Surface soil | |
| 2. | 5 - 10 | 5 | Clay kankar | |
| 3. | 10 - 15 | 5 | Medium sand | |
| 4. | 15 - 20 | 5 | Clay kankar | |
| 5. | 20 - 30 | 10 | Medium sand | Good |
| 6. | 30 - 35 | 5 | Clay kankar | |
| 7. | 35 - 46 | 11 | Fine to Medium sand | Good |
| 8. | 46 - 52 | 6 | Clay kankar | |
| 9. | 52 - 96* | 44 | Medium sand | Good |
| 10. | 96 - 102 | 6 | Clay kankar | |
| 11. | 102 - 110* | 8 | Medium sand | Good |
| 12. | 110 - 112 | 2 | Clay kankar | |
| 13. | 112 - 118* | 6 | Medium sand | Good |
| 14. | 118 - 122 | 4 | Clay kankar | |
| 15. | 122 - 131* | 9 | Fine to Medium sand | Good |
| 16. | 131 - 140 | 9 | Clay kankar | |
| 17. | 140 - 144* | 4 | Medium sand | Good |
| 18. | 144 - 158 | 14 | Clay kankar | |
| 19. | 158 - 171* | 13 | Medium sand | Good |
| 20. | 171 - 178 | 7 | Clay kankar | |
| 21. | 178 - 201* | 23 | Medium sand | Good |
| 22. | 200 - 210 | 10 | Clay kankar | |
| 23. | 210 - 216* | 6 | Medium sand | Good |
| 24. | 216 - 220 | 4 | Clay kankar | |

Ground Water Survey Consultancy

