

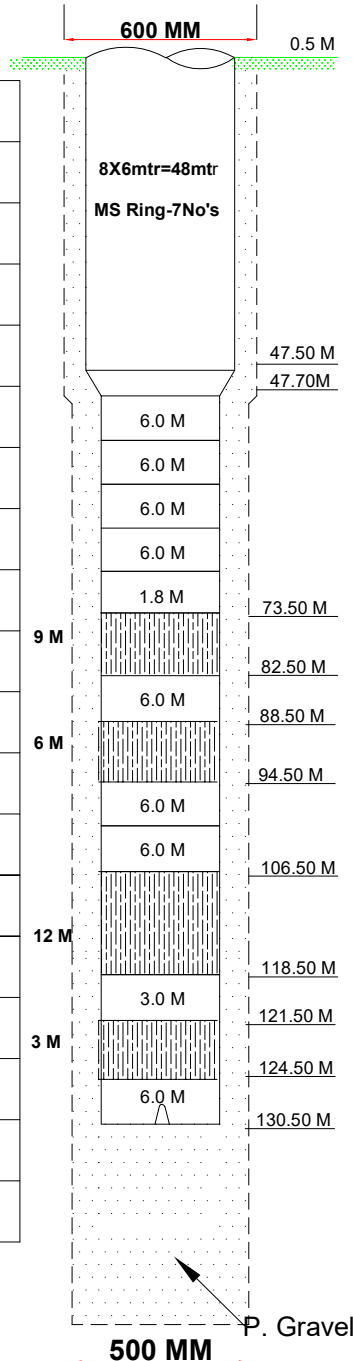
COMPLETION PLAN OF TUBEWELL

Name of work :- Construction of T. W. of G.P. Bhulanpur, Block-Bhejam, District, Lakhimpur Kheri.
Name of Program :- J. J. M-3
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
Cover Agreement :-

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

Strata

| |
|----------------------------------|
| 0-5 mtr Surface Clay |
| 5-8 mtr Clay & Silty Clay. |
| 8-12 mtr Fine Sand With Kankar |
| 12-20 mtr Clay with Kankar |
| 20-30 mtr Medium Sand |
| 30-33 mtr Clay With Kankar |
| 33-38 mtr Medium Sand |
| 38-42 mtr Clay with Kankar |
| 42-53mtr Medium Sand |
| 53-58 mtr Caving Clay |
| 58-67 mtr Medium Sand |
| 67-71 mtr Clay With Kankar |
| 71-83 mtr Medium Sand |
| 83-87 mtr Clay with Kankar soil |
| 87-98 mtr Medium Sand |
| 98-105 mtr Clay with Kankar soil |
| 105-125 mtr Medium Sand |
| 125-127 mtr Clay With Kankar |
| 127-130 mtr Sandy clay |



| ABSTRACT | | |
|----------|--------------------------|---------------|
| 1 | Type of Rig Machine | :- DC Cum RC |
| 2 | Required Discharge | :- 1490 LPM |
| 3 | Bore Size (MM) | :- 600x500 |
| 4 | Assembly Size (MM) | :- 300 x 200 |
| 5 | Drilling Starting Date | :- 13.01.2023 |
| 6 | Drilling Completion Date | :- 20.01.2023 |
| 7 | Total Depth Of Drilling | :- 165M |
| 8 | Logging Date | :- 21.01.2023 |
| 9 | Logging Depth | :- 140M |

| Sl.No | Depth (mbgl) | Thickness (m) | Remarks |
|-------|--------------|---------------|---------|
| 1 | 42--53 | 11 | Good |
| 2 | 58--67 | 9 | Good |
| 3 | 71--83 | 12 | Good |
| 4 | 87-98 | 11 | Good |
| 5 | 105--125 | 20 | Good |

Note:-SR.No 5 is highly intermixed with fine bands of kankar

(G.Shukla)
 Verified by Asst. Hydrologist
 Circle Office(E&M) U.P Jal
 Nigam (Rural)

(A.K Singh)
 Verified by Geophysicist
 GIC Lucknow.

| 11. Details of Lowered Assembly | |
|---------------------------------|---|
| i) | 200 mm Dia Housing Pipe :- 48.0 Meter |
| ii) | 150 mm Dia M. S. Slotted pipe :- 30.00Meter |
| iii) | 150 mm Dia M. S. Plain pipe :-52.80Meter |
| iv) | 200 x 150 mm Dia M S Reducer :- 0.20 Meter |
| Total :- 131.00 Meter | |
| AGI :- 00.50 Meter | |
| BGL :- 130.50 Meter | |
| 12. | Date of Lowering :- 23.01.2023 |

Recommended & Prepared by

Verified by

Recommended by

Approved by

M/s NCC Ltd

M/s Ceinsys Tech Ltd

J.E
 13th Division UP Jal
 Nigam (R) Lucknow

A.E
 13th Division UP Jal
 Nigam (R) Lucknow

E.E
 13th Division U.P Jal Nigam
 (R) Lucknow

REPORT ON GEOPHYSICAL WELL LOGGING AT

GRAM PANCHAYAT- BHULANPUR, BLOCK- BEHAJAM, DISTT-LAKHIMPUR KHIRI UNDER JAL JIVAN MISSION

Introduction :

A Deep bore hole was drilled 140 mtrs. depth. and Logged depth ~~130~~ 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 21.Jan.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 = ~~19.70~~ Ohms.

Drilling Water Resistivity = ~~22.45~~ 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 - 8 | 3 | Clay | |
| 3. | 8 - 12 | 4 | Fine sand | Good |
| 4. | 12 - 20 | 8 | Clay kankar | |
| 5. | 20 - 30 | 10 | Medium sand | Good |
| 6. | 30 - 33 | 3 | Clay kankar | |
| 7. | 33 - 38 | 5 | Medium sand | Good |
| 8. | 38 - 42 | 4 | Clay kankar | |
| 9. | 42 - 53* | 11 | Medium sand | Good |
| 10. | 53 - 58 | 5 | Clay kankar | |
| 11. | 58 - 67* | 9 | Medium sand | Good |
| 12. | 67 - 71 | 4 | Clay kankar | |
| 13. | 71 - 83* | 12 | Medium sand | Good |
| 14. | 83 - 87 | 4 | Clay kankar | |
| 15. | 87 - 98* | 11 | Medium sand | Good |
| 16. | 98 - 105 | 7 | Clay kankar | |
| 17. | 105 - 125* | 20 | Medium sand | Good |
| 18. | 125 - 127 | 2 | Clay kankar | |
| 19. | 127 - 130 | 3 | Sandy Clay | |

Sr NO 17 - is highly kankar intermixed.



- Logging performed as per SWSM guidelines.
- Groundwater quality interpreted by four as per their logger calibration GSC
23/01/23