



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

AURANGABAD R&C/HDSSMT/2014/184 Date 01.07.2014

Silk Mill Colony 0.9 MH Exc.

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| Date | Particulars of work   | DETAILS |         |         |       |       |       | Content of arrears     | Last measurement |          | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|-------|-------|------------------------|------------------|----------|--------------------------|
|      |   | No      |         |         | L     | B     | D     |                        | Page             | Quantity |                          |
|      |   | GL      | IL      | EX.L    |       |       |       |                        |                  |          |                          |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 1.904                  |                  | 5.816    | 7.720                    |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                        |                  |          |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | <b>5.024</b>           |                  |          |                          |
|      | Deduction   |         |         |         |       |       |       |                        |                  |          |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.350 | 1.426                  |                  |          |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478                  |                  |          |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | <b>1.904</b>           |                  |          |                          |
|      |   |         |         |         |       |       |       | <b>Net Qty = A - B</b> |                  |          |                          |
|      | <b>KSMC 14.5</b>  |         |         |         |       |       |       | <b>3.120</b>           |                  | 9.570    | 12.690                   |
|      | CH43.00   | 555.380 | 554.005 | 553.755 |       |       | 1.625 |                        |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                        |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.653 | 2.050                  |                  | 9.090    | 11.142                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                        |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.660 | 2.072                  |                  | 7.034    | 9.106                    |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                        |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.187 | 0.587                  |                  | 2.716    | 3.303                    |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.125 | 0.393                  |                  | 1.570    | 1.963                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 1.930                  |                  | 7.720    | 9.650                    |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                        |                  |          |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | <b>5.103</b>           |                  |          |                          |
|      | Deduction   |         |         |         |       |       |       |                        |                  |          |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.375 | 1.452                  |                  |          |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478                  |                  |          |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | <b>1.930</b>           |                  |          |                          |
|      |   |         |         |         |       |       |       | <b>Net Qty = A - B</b> |                  |          |                          |
|      | <b>KSMC 14.6</b>  |         |         |         |       |       |       | <b>3.172</b>           |                  | 12.690   | 15.862                   |
|      | CH54.10   | 555.510 | 554.110 | 553.860 |       |       | 1.650 |                        |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                        |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.678 | 2.129                  |                  | 11.141   | 13.270                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                        |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.660 | 2.072                  |                  | 9.106    | 11.178                   |



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## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone 1 to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

**Authority No.** AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

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| Date | Particulars of work   | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |               | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|-------|-------|--------------------|------------------|---------------|--------------------------|
|      |   | No      |         |         | L     | B     | D     |                    | Page             | Quantity      |                          |
|      |   | GL      | IL      | EX.L    |       |       |       |                    |                  |               |                          |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.162 | 0.509              |                  | 3.303         | 3.812                    |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.150 | 0.471              |                  | 1.963         | 2.434                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 1.956              |                  | 9.650         | 11.606                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | <b>5.181</b>       |                  |               |                          |
|      | <b>Deduction</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.400 | 1.479              |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478              |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | <b>1.956</b>       |                  |               |                          |
|      | <b>Net Qty = A - B</b>  |         |         |         |       |       |       | <b>3.225</b>       |                  | <b>15.862</b> | <b>19.087</b>            |
|      | <b>KSMC 14.7</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>CH67.70</b>  | 555.755 | 554.310 | 554.060 |       |       | 1.695 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.713 | 2.239              |                  | 13.270        | 15.508                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.660 | 2.072              |                  | 11.178        | 13.251                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.127 | 0.399              |                  | 3.812         | 4.211                    |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.195 | 0.612              |                  | 2.434         | 3.046                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 2.004              |                  | 11.606        | 13.610                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | <b>5.322</b>       |                  |               |                          |
|      | <b>Deduction</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.445 | 1.526              |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478              |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | <b>2.004</b>       |                  |               |                          |
|      | <b>Net Qty = A - B</b>  |         |         |         |       |       |       | <b>3.318</b>       |                  | <b>19.087</b> | <b>22.405</b>            |
|      | <b>KSMC 14.8</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>CH81.30</b>  | 556.600 | 554.440 | 554.190 |       |       | 2.410 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 1.093 | 3.432              |                  | 15.508        | 18.940                   |



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Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Veneture)

Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

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| Date | Particulars of work   | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |               | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|-------|-------|--------------------|------------------|---------------|--------------------------|
|      |   | GL      | No IL   | EX.L    | L     | B     | D     |                    | Page             | Quantity      |                          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.407 | 1.278              |                  | 13.251        | 14.529                   |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.253 | 0.794              |                  | 0.000         | 0.794                    |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    |                  |               |                          |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.657 | 2.063              |                  | 3.046         | 5.109                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 2.759              |                  | 13.610        | 16.370                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | <b>7.567</b>       |                  |               |                          |
|      | <b>Deduction</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 2.160 | 2.282              |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478              |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | <b>2.759</b>       |                  |               |                          |
|      | <b>Net Qty = A - B</b>  |         |         |         |       |       |       | <b>4.808</b>       |                  | <b>22.405</b> | <b>27.214</b>            |
|      | <b>KSMC 14.9</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>CH87.40</b>  | 556.160 | 554.660 | 554.410 |       |       | 1.750 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 1.120 | 3.517              |                  | 18.940        | 22.457                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.380 | 1.193              |                  | 14.529        | 15.722                   |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.250 | 0.785              |                  | 0.794         | 1.579                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 2.062              |                  | 16.370        | 18.432                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | <b>5.495</b>       |                  |               |                          |
|      | <b>Deduction</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.500 | 1.584              |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478              |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | <b>2.062</b>       |                  |               |                          |
|      | <b>Net Qty = A - B</b>  |         |         |         |       |       |       | <b>3.433</b>       |                  | <b>27.214</b> | <b>30.647</b>            |
|      | <b>KSMC 14.10</b>   |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>CH96.00</b>  | 556.320 | 554.780 | 554.530 |       |       | 1.790 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.810 | 2.543              |                  | 22.457        | 25.001                   |





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**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Veneture)

**Authority No.** AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

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| Date | Particulars of work   | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |               | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|-------|-------|--------------------|------------------|---------------|--------------------------|
|      |   | No      |         |         | L     | B     | D     |                    | Page             | Quantity      |                          |
|      |   | GL      | IL      | EX.L    |       |       |       |                    |                  |               |                          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.660 | 2.072              |                  |               |                          |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    | 15.722           | 17.794        |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.030 | 0.094              |                  | 4.305         |                          |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.290 | 0.911              |                  | 5.109         |                          |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 2.104              |                  | 18.432        |                          |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                    |                  | 20.536        |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | 5.621              |                  |               |                          |
|      | <b>Deduction</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.540 | 1.627              |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478              |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | 2.104              |                  |               |                          |
|      |   |         |         |         |       |       |       |                    |                  |               |                          |
|      |   |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>KSMC 14.11</b>   |         |         |         |       |       |       | <b>3.516</b>       | <b>30.647</b>    | <b>34.163</b> |                          |
|      | <b>CH102.10</b>   | 556.340 | 554.840 | 554.590 |       |       | 1.750 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.810 | 2.543              |                  | 25.001        |                          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  | 27.544        |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.660 | 2.072              |                  | 17.794        |                          |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    |                  | 19.867        |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.030 | 0.094              |                  | 4.305         |                          |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.250 | 0.785              |                  | 6.019         |                          |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 2.062              |                  | 20.536        |                          |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                    |                  | 22.598        |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | 5.495              |                  |               |                          |
|      | <b>Deduction</b>  |         |         |         |       |       |       |                    |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.500 | 1.584              |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.478              |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | 2.062              |                  |               |                          |
|      |   |         |         |         |       |       |       |                    |                  |               |                          |
|      |   |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>Net Qty = A - B</b>  |         |         |         |       |       |       | <b>3.433</b>       | <b>34.163</b>    | <b>37.596</b> |                          |



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Silk Mill Colony 0.9 MH Exc.

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| Date | Particulars of work   | DETAILS |         |         |       |       | Content of arrears | Last measurement |        | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|-------|--------------------|------------------|--------|--------------------------|
|      |   | GL      | No IL   | EX.L    | L     | B     |                    | D                | Page   |                          |
|      | KSMC 14.12  |         |         |         |       |       |                    |                  |        |                          |
|      | CH115.70  | 556.530 | 554.930 | 554.680 |       |       | 1.850              |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.840              | 2.638            | 27.544 | 30.182                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.660              | 2.072            | 19.867 | 21.939                   |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.000              | 0.000            | 1.579  | 1.579                    |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.000              | 0.000            | 4.399  | 4.399                    |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 0.785 | 4.000 | 0.350              | 1.099            | 6.804  | 7.903                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |                    | 2.168            | 22.598 | 24.766                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |                    |                  |        |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       | 5.809              |                  |        |                          |
|      | <b>Deduction</b>  |         |         |         |       |       |                    |                  |        |                          |
|      | Brick work  | 1       |         | 0.785   | 1.160 | 1.160 | 1.600              | 1.690            |        |                          |
|      | PCC   | 1       |         | 0.785   | 1.560 | 1.560 | 0.250              | 0.478            |        |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       | 2.168              |                  |        |                          |
|      | <b>Net Qty = A - B</b>  |         |         |         |       |       | 3.641              | 37.596           | 41.237 |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-

Page No. :- 135

Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

Silk Mill Colony Manhole Details

Page 1 of 1

| 12th R A BILL MEASURMENTS   |           |            |         |         |       |                             |                  |  |
|---|-----------|------------|---------|---------|-------|-----------------------------|------------------|--|
| Branch Sewer at Silk Mill Colony  |           |            |         |         |       |                             |                  |  |
| Extra Item No. : 02 Providing and constructing on sewer BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M |           |            |         |         |       |                             |                  |  |
| Sr.No.  | Chainage  | MH No      | MTL     | IL      | Depth | Depth Difference than 1.5 m | Total Difference | Rebate/Add for Excess height (per 30 cm) |
| 1   | CH 3.60   | KSMC 14.1  | 554.470 | 553.080 | 1.390 | -0.110                      | 0.020            | 0.067                                    |
| 2   | CH 12.20  | KSMC 14.2  | 554.620 | 553.200 | 1.420 | -0.080                      |                  |  |
| 3   | CH 20.80  | KSMC 14.3  | 554.800 | 553.460 | 1.340 | -0.160                      |                  |  |
| 4   | CH 31.90  | KSMC 14.4  | 555.130 | 553.780 | 1.350 | -0.150                      |                  |  |
| 5   | CH 43.00  | KSMC 14.5  | 555.380 | 554.005 | 1.375 | -0.125                      |                  |  |
| 6   | CH 54.10  | KSMC 14.6  | 555.510 | 554.110 | 1.400 | -0.100                      |                  |  |
| 7   | CH 67.70  | KSMC 14.7  | 555.755 | 554.310 | 1.445 | -0.055                      |                  |  |
| 8   | CH 81.30  | KSMC 14.8  | 556.600 | 554.440 | 2.160 | 0.660                       |                  |  |
| 9   | CH 87.40  | KSMC 14.9  | 556.160 | 554.660 | 1.500 | 0.000                       |                  |  |
| 10  | CH 96.00  | KSMC 14.10 | 556.320 | 554.780 | 1.540 | 0.040                       |                  |  |
| 11  | CH 102.10 | KSMC 14.11 | 556.340 | 554.840 | 1.500 | 0.000                       |                  |  |
| 12  | CH 115.70 | KSMC 14.12 | 556.530 | 554.930 | 1.600 | 0.100                       |                  |  |
| Total   |           |            |         |         |       |                             |                  | 0.067                                    |



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|--|--|--|--|--|--|--|--|--|

# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :- **136**  
Page No. :-

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalga, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalga, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

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|---------------------|---|
| Date of Measurement | 1 |
|---------------------|---|

Silk Mill Colony Quantity Node Abstract

### 14th R A BILL MEASUREMENTS

Branch Sewer at Silk Mill Colony

| SR NO        | Description | MB/PG | ITEM 1         |               | ITEM 2       |               | ITEM 4        |               | ITEM 7        | ITEM 11        | ITEM 30 | EIRL 2        | EIRL 2.a     | EIRL 9.3       | EIRL 9.4       | EIRL 9.5      | EIRL 9.6      |
|--------------|-------------|-------|----------------|---------------|--------------|---------------|---------------|---------------|---------------|----------------|---------|---------------|--------------|----------------|----------------|---------------|---------------|
|              |             |       | 0-1.5          | 1.5-3.0       | 0-1.5        | 1.5-3.0       | 0-1.5         | 1.5-3.0       |               |                |         |               |              |                |                |               |               |
| 1            | For Pipe    |       | 109.997        | 70.731        | 3.715        | 13.522        | 12.529        | 11.187        | 19.886        | 190.609        |         |               |              | 102.500        | 102.500        | 43.200        | 43.200        |
| 2            | For Manhole |       | 30.182         | 21.939        | 1.579        | 4.399         | 7.903         |               | 24.766        | 41.237         |         | 12.000        | 0.067        |                |                |               |               |
| <b>Total</b> |             |       | <b>140.179</b> | <b>92.670</b> | <b>5.295</b> | <b>17.921</b> | <b>20.432</b> | <b>11.187</b> | <b>44.651</b> | <b>231.846</b> |         | <b>12.000</b> | <b>0.067</b> | <b>102.500</b> | <b>102.500</b> | <b>43.200</b> | <b>43.200</b> |



|                  |    |
|------------------|----|
| Total up to Date | 10 |
|------------------|----|



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-  
Page No. :- **137**

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1 of 2

11th Girja Mata Temple to Naya Nagar, RCC Pipe 300mm

### 11th RA BILL MEASUREMENTS PIPE GIRJA MATA TEMPLE TO NYAYA NAGAR

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| Date | Particulars of work  | DETAILS   |         |         |        |       |       | Content of arrears | Last measurement |               | Total Upto Date Quantity |
|------|--|---|---------|---------|--------|-------|-------|--------------------|------------------|---------------|--------------------------|
|      |  | No  |         |         | L      | B     | D     |                    | Page             | Quantity      |                          |
|      |  | GL  | IL      | EX.L    |        |       |       |                    |                  |               |                          |
|      | <b>RCC PIPE - 300 mm Dia</b>   |   |         |         |        |       |       |                    |                  |               |                          |
|      | Width of Trench -<br>For Lift 0 to 1.50m-<br>0.300+0.08+0.08+0.5=0.96m                     |   |         |         |        |       |       |                    |                  |               |                          |
|      | For Lift 1.5 to 3.00m-<br>0.300+0.08+0.08+0.5+0.4=1.36m                                    |   |         |         |        |       |       |                    |                  |               |                          |
|      | For Lift 3.0 to 4.5m-<br>0.300+0.5+0.08+0.08+0.4+0.4=1.76m                                 |   |         |         |        |       |       |                    |                  |               |                          |
|      | <b>KGM 23.15 to KGM 23.15.1</b>  | Branch line from Nyaynagar to Pundlik Chowk (CH-261.75, MH No. KGM 23.15) |         |         |        |       |       |                    |                  |               |                          |
|      | CH0.00   | 598.407   | 596.657 | 596.557 |        |       | 1.850 | 1.882              |                  |               |                          |
|      | CH16.00  | 598.670   | 596.857 | 596.757 |        |       | 1.913 |                    |                  |               |                          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.         |   |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m   | 1   |         |         | 14.150 | 1.360 | 0.950 | 18.282             |                  | 0.000         | 18.282                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.           |   |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m   | 1   |         |         | 14.150 | 1.360 | 0.550 | 10.584             |                  | 0.000         | 10.584                   |
|      | (b) For Lift 1.5m to 3.0m  | 1   |         |         | 14.150 | 0.960 | 0.382 | 5.189              |                  | 0.000         | 5.189                    |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                | 1   |         |         | 14.150 | 0.960 | 0.100 | 1.358              |                  | 0.000         | 1.358                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading |   |         |         |        |       |       | 2.962              |                  | 0.000         | 2.962                    |
|      | Extra Item 9.4 (c) :-Lowering & Laying of RCC NP3 Class pipe of 300mm Dia                  | 1   |         |         | 15.000 |       |       | 15.000             |                  |               | 15.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...  |   |         |         |        |       |       |                    |                  |               |                          |
|      | <b>Total Excavation=</b>   |   |         |         |        |       |       | <b>34.055</b>      |                  |               |                          |
|      | Deduction  |   |         |         |        |       |       |                    |                  |               |                          |
|      | pipe area  | 1   |         | 0.785   | 14.150 | 0.380 | 0.380 | 1.604              |                  |               |                          |
|      | soling   |   |         |         |        |       |       | 0.000              |                  |               |                          |
|      | PCC  |   |         |         |        |       |       | 0.000              |                  |               |                          |
|      | Murrum bedding   |   |         |         |        |       |       | 1.358              |                  |               |                          |
|      |  |   |         |         |        |       |       | 2.962              |                  |               |                          |
|      |  | <b>Net Qty = A - B</b>  |         |         |        |       |       | <b>31.093</b>      | <b>0.000</b>     | <b>31.093</b> |                          |
|      | <b>KGM 23.15.1 to KGM 23.15.2</b>  |   |         |         |        |       |       |                    |                  |               |                          |
|      | CH16.00  | 598.670   | 597.257 | 597.157 |        |       | 1.513 | 2.098              |                  |               |                          |
|      | CH29.50  | 599.990   | 597.407 | 597.307 |        |       | 2.683 |                    |                  |               |                          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.         |   |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m   | 1   |         |         | 10.840 | 1.360 | 0.950 | 14.005             |                  | 18.282        | 32.287                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.           |   |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m   | 1   |         |         | 10.840 | 1.360 | 0.550 | 8.108              |                  | 10.584        | 18.692                   |
|      | (b) For Lift 1.5m to 3.0m  | 1   |         |         | 10.840 | 0.960 | 0.598 | 6.223              |                  | 5.189         | 11.412                   |



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**AURANGABAD MUNICIPAL CORPORATION.**  
(From No.52)



**Measurement Book**

Name of work:- Development of Undergroun Sewerage Collection system for Zone I to VI in Aurangabad City. Book No. 240/183  
 and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshitravadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying, jointing and testing rising/main GRP DI pipe line from Golwadi SPS to Nakshitravadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.  
 Name of Agency:- M/s Khilari Infrastructure Pvt. Ltd. & GICPL (Joint Venture)  
 Authority No. AMC/Ward B&C/UIDSSN/2014/184 Date 01/07/2014

2 of 2 11th Girja Mata Temple to Naya Nagar, RCC Pipe 300mm

| Date | Particulars of work  | DETAILS |         |         |        |       |       | Content of arrears | Last measurement |          | Total Upto Date Quantity |        |
|------|--|---------|---------|---------|--------|-------|-------|--------------------|------------------|----------|--------------------------|--------|
|      |  | No      |         |         | L      | B     | D     |                    | Page             | Quantity |                          |        |
|      |  | GL      | IL      | EX.L    |        |       |       |                    |                  |          |                          |        |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                | 1       |         |         | 10.840 | 0.960 | 0.100 | 1.041              |                  | 1.358    | 2.399                    |        |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading |         |         |         |        |       |       | 2.269              |                  | 2.962    | 5.232                    |        |
|      | Extra Item 9.4 (c) :-Lowering & Laying of RCC NP3 Class pipe of 300mm Dia                  | 1       |         |         | 12.500 |       |       | 12.500             |                  | 15.000   | 27.500                   |        |
|      | Item No. 30 :- Refilling the excavated trenches ...  |         |         |         |        |       |       |                    |                  |          |                          |        |
|      | Total Excavation=  |         |         |         |        |       |       | 28.337             |                  |          |                          |        |
|      | Deduction  |         |         |         |        |       |       |                    |                  |          |                          |        |
|      | pipe area  | 1       |         | 0.785   | 10.840 | 0.380 | 0.380 | 1.229              |                  |          |                          |        |
|      | soling   |         |         |         |        |       |       | 0.000              |                  |          |                          |        |
|      | PCC  |         |         |         |        |       |       | 0.000              |                  |          |                          |        |
|      | Murrum bedding   |         |         |         |        |       |       | 1.041              |                  |          |                          |        |
|      |  |         |         |         |        |       |       | 2.269              |                  |          |                          |        |
|      |  |         |         |         |        |       |       | Net Qty = A - B    |                  | 26.067   | 31.093                   | 57.160 |
|      | KGM 23.15.2 to KGM 23.15.3   |         |         |         |        |       |       |                    |                  |          |                          |        |
|      | CH29.50  | 599.990 | 597.707 | 597.607 |        |       | 2.383 |                    |                  |          |                          |        |
|      | CH40.50  | 599.000 | 597.907 | 597.807 |        |       | 1.193 | 1.788              |                  |          |                          |        |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.         |         |         |         |        |       |       |                    |                  |          |                          |        |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 8.340  | 1.360 | 0.650 | 7.373              |                  | 32.287   | 39.660                   |        |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.           |         |         |         |        |       |       |                    |                  |          |                          |        |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 8.340  | 1.360 | 0.850 | 9.641              |                  | 18.693   | 28.334                   |        |
|      | (b) For Lift 1.5m to 3.0m  | 1       |         |         | 8.340  | 0.960 | 0.288 | 2.306              |                  | 11.412   | 13.718                   |        |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                | 1       |         |         | 8.340  | 0.960 | 0.100 | 0.801              |                  | 2.399    | 3.200                    |        |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading |         |         |         |        |       |       | 1.746              |                  | 5.232    | 6.978                    |        |
|      | Extra Item 9.4 (c) :-Lowering & Laying of RCC NP3 Class pipe of 300mm Dia                  | 1       |         |         | 10.000 |       |       | 10.000             |                  | 27.500   | 37.500                   |        |
|      | Item No. 30 :- Refilling the excavated trenches ...  |         |         |         |        |       |       |                    |                  |          |                          |        |
|      | Total Excavation=  |         |         |         |        |       |       | 19.319             |                  |          |                          |        |
|      | Deduction  |         |         |         |        |       |       |                    |                  |          |                          |        |
|      | pipe area  | 1       |         | 0.785   | 8.340  | 0.380 | 0.380 | 0.945              |                  |          |                          |        |
|      | soling   |         |         |         |        |       |       | 0.000              |                  |          |                          |        |
|      | PCC  |         |         |         |        |       |       | 0.000              |                  |          |                          |        |
|      | Murrum bedding   |         |         |         |        |       |       | 0.801              |                  |          |                          |        |
|      |  |         |         |         |        |       |       | 1.746              |                  |          |                          |        |
|      |  |         |         |         |        |       |       | Net Qty = A - B    |                  | 17.573   | 57.160                   | 74.783 |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI-pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-

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**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Vencture)

1 of 7

12th

12th Girja Mata Temple to Naya Nagar, RCC Pipe 250mm

12th

### 12th RA BILL MEASUREMENTS PIPE GIRJA MATA TEMPLE TO NYAYA NAGAR

| Date | Particulars of work   | DETAILS  |         |         |        |       |       | Content of arrears | Last measurement Page | Total Upto Date Quantity |
|------|---|--|---------|---------|--------|-------|-------|--------------------|-----------------------|--------------------------|
|      |   | No   |         |         | L      | B     | D     |                    |                       |                          |
|      |   | GL   | IL      | EX.L    |        |       |       |                    |                       |                          |
|      | <b>RCC PIPE - 250 mm Dia</b>  |  |         |         |        |       |       |                    |                       |                          |
|      | Width of Trench -<br>For Lift 0 to 1.50m-<br>0.250+0.06+0.06+0.5=0.87m                          |  |         |         |        |       |       |                    |                       |                          |
|      | For Lift 1.5 to 3.00m-<br>0.250+0.06+0.06+0.5+0.4=1.27 m  |  |         |         |        |       |       |                    |                       |                          |
|      | For Lift 3.0 to 4.5m-<br>0.250+0.5+0.06+0.06+0.4+0.4=1.67m                                      |  |         |         |        |       |       |                    |                       |                          |
|      | <b>KGM 23.6 to KGM 23.6.1</b>   | <b>Branch line from Nyaynagar to Pundlik Chowk (CH-85.85, MH No. KGM 23.6)</b> |         |         |        |       |       |                    |                       |                          |
|      | CH0.00  | 592.702  | 591.612 | 591.512 |        |       | 1.190 | 1.234              |                       |                          |
|      | CH11.00   | 592.990  | 591.812 | 591.712 |        |       | 1.278 |                    |                       |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |  |         |         |        |       |       |                    |                       |                          |
|      | (a) For Lift 0 to 1.5m  | 1  |         |         | 9.150  | 0.870 | 0.584 | 4.649              | 0.000                 | 4.649                    |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |  |         |         |        |       |       |                    |                       |                          |
|      | (a) For Lift 0 to 1.5m  | 1  |         |         | 9.150  | 0.870 | 0.600 | 4.776              | 39.660                | 44.436                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |  |         |         |        |       |       |                    |                       |                          |
|      | (a) For Lift 0 to 1.5m  | 1  |         |         | 9.150  | 0.870 | 0.050 | 0.398              | 28.334                | 28.732                   |
|      | (b) For Lift 1.5m to 3.0m   | 1  |         |         | 9.150  | 0.870 | 0.000 | 0.000              | 13.718                | 13.718                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1  |         |         | 9.150  | 0.870 | 0.100 | 0.796              | 3.200                 | 3.996                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |  |         |         |        |       |       | 1.486              | 6.978                 | 8.464                    |
|      | Extra Item 9.4 (b) :- Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                      | 1  |         |         | 10.000 |       |       | 10.000             |                       | 10.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |  |         |         |        |       |       |                    |                       |                          |
|      | <b>Total Excavation=</b>  |  |         |         |        |       |       | <b>9.823</b>       |                       |                          |
|      | Deduction   |  |         |         |        |       |       |                    |                       |                          |
|      | pipe area   | 1  |         | 0.785   | 9.150  | 0.310 | 0.310 | 0.690              |                       |                          |
|      | soling  |  |         |         |        |       |       | 0.000              |                       |                          |
|      | PCC   |  |         |         |        |       |       | 0.000              |                       |                          |
|      | Murrum bedding  |  |         |         |        |       |       | 0.796              |                       |                          |
|      |   |  |         |         |        |       |       | 1.486              |                       |                          |
|      |   |  |         |         |        |       |       | <b>8.337</b>       | <b>74.733</b>         | <b>83.070</b>            |
|      | <b>KGM 23.6.1 to KGM 23.6.2</b>   |  |         |         |        |       |       |                    |                       |                          |
|      | CH11.00   | 592.990  | 591.820 | 591.720 |        |       | 1.270 | 1.245              |                       |                          |
|      | CH22.00   | 593.000  | 591.880 | 591.780 |        |       | 1.220 |                    |                       |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)



## Measurement Book



**Name of work:-** Development of Underground Sewerage Collection system for Zone I to Main and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No 98 and CIDCO (Airport). Providing, lowering, laying, jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 STP for Aurangabad City.

**Book No.:** 140  
**Page No.:** 2

**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

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12th Girja Mata Temple to Naya Nagar, RCC Pipe 250mm

| Date | Particulars of work   | DETAILS |         |         |        |       |       | Content of arrears | Last measurement |               | Total Upto Date Quantity |
|------|---|---------|---------|---------|--------|-------|-------|--------------------|------------------|---------------|--------------------------|
|      |   | GL      | IL      | EX.L    | L      | B     | D     |                    | Page             | Quantity      |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.595 | 4.659              |                  | 4.649         | 9.308                    |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.600 | 4.698              |                  | 44.436        | 49.134                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.050 | 0.392              |                  | 28.732        | 29.123                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 9.000  | 0.870 | 0.100 | 0.783              |                  | 3.996         | 4.779                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |        |       |       | 1.462              |                  | 8.464         | 9.926                    |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                       | 1       |         |         | 10.000 |       |       | 10.000             |                  | 10.000        | 20.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |        |       |       |                    |                  |               |                          |
|      | <b>Total Excavation=</b>  |         |         |         |        |       |       | <b>9.748</b>       |                  |               |                          |
|      | <b>Deduction</b>  |         |         |         |        |       |       |                    |                  |               |                          |
|      | pipe area   | 1       |         | 0.785   | 9.000  | 0.310 | 0.310 | 0.679              |                  |               |                          |
|      | soling  |         |         |         |        |       |       | 0.000              |                  |               |                          |
|      | PCC   |         |         |         |        |       |       | 0.000              |                  |               |                          |
|      | Murrum bedding  |         |         |         |        |       |       | 0.783              |                  |               |                          |
|      |   |         |         |         |        |       |       | 1.462              |                  |               |                          |
|      |   |         |         |         |        |       |       | <b>8.286</b>       |                  | <b>83.070</b> | <b>91.357</b>            |
|      | <b>Net Qty = A - B</b>  |         |         |         |        |       |       |                    |                  |               |                          |
|      | RGM 23.6.2 to RGM 23.6.3  |         |         |         |        |       |       |                    |                  |               |                          |
|      | CH22.00   | 593.000 | 591.920 | 591.820 |        |       | 1.180 | 1.120              |                  |               |                          |
|      | CH33.00   | 593.020 | 592.060 | 591.960 |        |       | 1.060 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.520 | 4.072              |                  | 9.308         | 13.379                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.550 | 4.307              |                  | 49.134        | 53.440                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.050 | 0.392              |                  | 29.123        | 29.515                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 9.000  | 0.870 | 0.100 | 0.783              |                  | 4.779         | 5.562                    |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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12th Girja Mata Temple to Naya Nagar, RCC Pipe 250mm

| Date | Particulars of work   | DETAILS |         |         |        |       |       | Content of arrears | Last measurement |          | Total Upto Date Quantity |
|------|---|---------|---------|---------|--------|-------|-------|--------------------|------------------|----------|--------------------------|
|      |   | No      |         |         | L      | B     | D     |                    | Page             | Quantity |                          |
|      |   | GL      | IL      | EX.L    |        |       |       |                    |                  |          |                          |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |        |       |       | 1.462              |                  | 9.926    | 11.388                   |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                       | 1       |         |         | 10.000 |       |       | 10.000             |                  | 20.000   | 30.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |        |       |       |                    |                  |          |                          |
|      | Total Excavation=   |         |         |         |        |       |       | 8.770              |                  |          |                          |
|      | Deduction   |         |         |         |        |       |       |                    |                  |          |                          |
|      | pipe area   | 1       |         | 0.785   | 9.000  | 0.310 | 0.310 | 0.679              |                  |          |                          |
|      | soling  |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | PCC   |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | Murum bedding   |         |         |         |        |       |       | 0.783              |                  |          |                          |
|      |   |         |         |         |        |       |       | 1.462              |                  |          |                          |
|      |   |         |         |         |        |       |       | 7.308              |                  | 91.357   | 98.664                   |
|      | KGM 23.6.3 to KGM 23.6.4  |         |         |         |        |       |       |                    |                  |          |                          |
|      | CH33.00   | 593.020 | 592.100 | 592.000 |        |       | 1.020 |                    |                  |          |                          |
|      | CH40.20   | 593.150 | 592.120 | 592.020 |        |       | 1.130 | 1.075              |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 5.200  | 0.870 | 0.525 | 2.375              |                  | 13.379   | 15.754                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 5.200  | 0.870 | 0.500 | 2.262              |                  | 53.440   | 55.702                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 5.200  | 0.870 | 0.050 | 0.226              |                  | 29.515   | 29.742                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 5.200  | 0.870 | 0.100 | 0.452              |                  | 5.562    | 6.014                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |        |       |       | 0.845              |                  | 11.388   | 12.233                   |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                       | 1       |         |         | 6.000  |       |       | 6.000              |                  | 30.000   | 36.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |        |       |       |                    |                  |          |                          |
|      | Total Excavation=   |         |         |         |        |       |       | 4.863              |                  |          |                          |
|      | Deduction   |         |         |         |        |       |       |                    |                  |          |                          |
|      | pipe area   | 1       |         | 0.785   | 5.200  | 0.310 | 0.310 | 0.392              |                  |          |                          |
|      | soling  |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | PCC   |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | Murum bedding   |         |         |         |        |       |       | 0.452              |                  |          |                          |
|      |   |         |         |         |        |       |       | 0.845              |                  |          |                          |
|      |   |         |         |         |        |       |       | 4.019              |                  | 98.664   | 102.683                  |
|      | KGM 23.6.4 to KGM 23.6.5  |         |         |         |        |       |       |                    |                  |          |                          |
|      | CH40.20   | 593.150 | 592.140 | 592.040 |        |       | 1.110 |                    |                  |          |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book



**Name of work:-** Development of Underground Sewerage Collection system for Zone 1 to VI and Zone Salim Ali/ Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrivadi (Kanchanvadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying, jointing and testing rising main

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11th Girja Mata Temple to Naya Nagar, RCC Pipe 250mm

| Date | Particulars of work   | DETAILS |         |         |        |       |       | Content of arrears | Last measurement Page | Last measurement Quantity | Total Upto Date Quantity |
|------|---|---------|---------|---------|--------|-------|-------|--------------------|-----------------------|---------------------------|--------------------------|
|      |   | No      |         |         | L      | B     | D     |                    |                       |                           |                          |
|      |   | GL      | IL      | EX.L    |        |       |       |                    |                       |                           |                          |
|      | <b>CH51.20</b>  | 593.380 | 592.180 | 592.080 |        |       | 1.300 |                    |                       |                           |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |        |       |       |                    |                       |                           |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.555 | 4.346              |                       | 15.754                    | 20.100                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |        |       |       |                    |                       |                           |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.600 | 4.698              |                       | 55.702                    | 60.400                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                       |                           |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.050 | 0.392              |                       | 29.741                    | 30.132                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 9.000  | 0.870 | 0.100 | 0.783              |                       | 6.014                     | 6.797                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |        |       |       | 1.462              |                       | 12.233                    | 13.695                   |
|      | Extra Item 9.4 (b) :- Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                      | 1       |         |         | 10.000 |       |       | 10.000             |                       | 36.000                    | 46.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |        |       |       |                    |                       |                           |                          |
|      | <b>Total Excavation=</b>  |         |         |         |        |       |       | <b>9.435</b>       |                       |                           |                          |
|      | <b>Deduction</b>  |         |         |         |        |       |       |                    |                       |                           |                          |
|      | pipe area   | 1       |         | 0.785   | 9.000  | 0.310 | 0.310 | 0.679              |                       |                           |                          |
|      | soling  |         |         |         |        |       |       | 0.000              |                       |                           |                          |
|      | PCC   |         |         |         |        |       |       | 0.000              |                       |                           |                          |
|      | Murrum bedding  |         |         |         |        |       |       | 0.783              |                       |                           |                          |
|      |   |         |         |         |        |       |       | 1.462              |                       |                           |                          |
|      |   |         |         |         |        |       |       | <b>7.973</b>       |                       | <b>102.683</b>            | <b>110.656</b>           |
|      | <b>Net Qty = A - B</b>  |         |         |         |        |       |       |                    |                       |                           |                          |
|      | <b>KGM 23.6.5 to KGM 23.6.6</b>   |         |         |         |        |       |       |                    |                       |                           |                          |
|      | <b>CH51.20</b>  | 593.380 | 592.200 | 592.100 |        |       | 1.280 |                    |                       |                           |                          |
|      | <b>CH58.40</b>  | 593.410 | 592.250 | 592.150 |        |       | 1.260 | 1.270              |                       |                           |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |        |       |       |                    |                       |                           |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 5.200  | 0.870 | 0.670 | 3.031              |                       | 20.100                    | 23.131                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |        |       |       |                    |                       |                           |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 5.200  | 0.870 | 0.550 | 2.488              |                       | 60.400                    | 62.889                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                       |                           |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 5.200  | 0.870 | 0.050 | 0.226              |                       | 30.132                    | 30.358                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 5.200  | 0.870 | 0.100 | 0.452              |                       | 6.797                     | 7.250                    |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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11th Girja Mata Temple to Naya Nagar, RCC Pipe 250mm

| Date | Particulars of work  | DETAILS |         |         |        |       |       | Content of arrears | Last measurement |          | Total Upto Date Quantity |
|------|--|---------|---------|---------|--------|-------|-------|--------------------|------------------|----------|--------------------------|
|      |  | No      |         |         | L      | B     | D     |                    | Page             | Quantity |                          |
|      |  | GL      | IL      | EX.L    |        |       |       |                    |                  |          |                          |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |         |         |         |        |       |       | 0.845              |                  | 13.695   | 14.539                   |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                      | 1       |         |         | 6.000  |       |       | 6.000              |                  | 46.000   | 52.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...  |         |         |         |        |       |       |                    |                  |          |                          |
|      | Total Excavation=  |         |         |         |        |       |       | 5.745              |                  |          |                          |
|      | Deduction  |         |         |         |        |       |       |                    |                  |          |                          |
|      | pipe area  | 1       |         | 0.785   | 5.200  | 0.310 | 0.310 | 0.392              |                  |          |                          |
|      | soling   |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | PCC  |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | Murum bedding  |         |         |         |        |       |       | 0.452              |                  |          |                          |
|      |  |         |         |         |        |       |       | 0.845              |                  |          |                          |
|      |  |         |         |         |        |       |       | Net Qty = A - B    |                  | 4.901    | 110.656                  |
|      |  |         |         |         |        |       |       |                    |                  |          | 115.557                  |
|      | KGM 23.6.6 to KGM 23.6.7   |         |         |         |        |       |       |                    |                  |          |                          |
|      | CH58.40  | 593.410 | 592.270 | 592.170 |        |       | 1.240 | 1.245              |                  |          |                          |
|      | CH69.40  | 593.470 | 592.320 | 592.220 |        |       | 1.250 |                    |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 9.000  | 0.870 | 0.745 | 5.833              |                  | 23.131   | 28.965                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.              |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 9.000  | 0.870 | 0.450 | 3.524              |                  | 62.889   | 66.412                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.               |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 9.000  | 0.870 | 0.050 | 0.392              |                  | 30.358   | 30.750                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1       |         |         | 9.000  | 0.870 | 0.100 | 0.783              |                  | 7.250    | 8.033                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |         |         |         |        |       |       | 1.462              |                  | 14.539   | 16.001                   |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                      | 1       |         |         | 10.000 |       |       | 10.000             |                  | 52.000   | 62.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...  |         |         |         |        |       |       |                    |                  |          |                          |
|      | Total Excavation=  |         |         |         |        |       |       | 9.748              |                  |          |                          |
|      | Deduction  |         |         |         |        |       |       |                    |                  |          |                          |
|      | pipe area  | 1       |         | 0.785   | 9.000  | 0.310 | 0.310 | 0.679              |                  |          |                          |
|      | soling   |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | PCC  |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | Murum bedding  |         |         |         |        |       |       | 0.783              |                  |          |                          |
|      |  |         |         |         |        |       |       | 1.462              |                  |          |                          |
|      |  |         |         |         |        |       |       | Net Qty = A - B    |                  | 8.286    | 115.557                  |
|      |  |         |         |         |        |       |       |                    |                  |          | 123.843                  |
|      | KGM 23.6.7 to KGM 23.6.8   |         |         |         |        |       |       |                    |                  |          |                          |
|      | CH69.40  | 593.470 | 592.360 | 592.260 |        |       | 1.210 | 1.220              |                  |          |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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14th Girja Mata Temple to Naya Nagar, RCC Pipe 250mm

| Date | Particulars of work   | DETAILS |         |         |        |       |       | Content of arrears | Last measurement |          | Total Upto Date Quantity |
|------|---|---------|---------|---------|--------|-------|-------|--------------------|------------------|----------|--------------------------|
|      |   | No      |         |         | L      | B     | D     |                    | Page             | Quantity |                          |
|      |   | GL      | IL      | EX.L    |        |       |       |                    |                  |          |                          |
|      | CH80.40   | 593.570 | 592.440 | 592.340 |        |       | 1.230 |                    |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.570 | 4.463              |                  | 28.965   | 33.428                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.600 | 4.698              |                  | 66.412   | 71.110                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.050 | 0.392              |                  | 30.750   | 31.141                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 9.000  | 0.870 | 0.100 | 0.783              |                  | 8.033    | 8.816                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |        |       |       | 1.462              |                  | 16.001   | 17.463                   |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                       | 1       |         |         | 10.000 |       |       | 10.000             |                  | 62.000   | 72.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |        |       |       |                    |                  |          |                          |
|      | Total Excavation=   |         |         |         |        |       |       | 9.553              |                  |          |                          |
|      | Deduction   |         |         |         |        |       |       |                    |                  |          |                          |
|      | pipe area   | 1       |         | 0.785   | 9.000  | 0.310 | 0.310 | 0.679              |                  |          |                          |
|      | soling  |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | PCC   |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | Murrum bedding  |         |         |         |        |       |       | 0.783              |                  |          |                          |
|      |   |         |         |         |        |       |       | 1.462              |                  |          |                          |
|      |   |         |         |         |        |       |       | 8.091              |                  | 123.843  | 131.934                  |
|      |   |         |         |         |        |       |       |                    |                  |          |                          |
|      | KGM 23.6.8 to KGM 23.6.9  |         |         |         |        |       |       |                    |                  |          |                          |
|      | CH80.40   | 593.570 | 592.460 | 592.360 |        |       | 1.210 | 1.225              |                  |          |                          |
|      | CH91.40   | 593.660 | 592.520 | 592.420 |        |       | 1.240 |                    |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.675 | 5.285              |                  | 33.428   | 38.713                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.500 | 3.915              |                  | 71.110   | 75.025                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 9.000  | 0.870 | 0.050 | 0.392              |                  | 31.141   | 31.533                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 9.000  | 0.870 | 0.100 | 0.783              |                  | 8.816    | 9.599                    |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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12th Girja Mata Temple to Naya Nagar, RCC Pipe 250mm

| Date | Particulars of work   | DETAILS |         |         |        |       |       | Content of arrears | Last measurement |          | Total Upto Date Quantity |
|------|---|---------|---------|---------|--------|-------|-------|--------------------|------------------|----------|--------------------------|
|      |   | GL      | No IL   | EX.L    | L      | B     | D     |                    | Page             | Quantity |                          |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |        |       |       | 1.462              |                  | 17.463   | 18.925                   |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                       | 1       |         |         | 10.000 |       |       | 10.000             |                  | 72.000   | 82.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |        |       |       |                    |                  |          |                          |
|      | Total Excavation=   |         |         |         |        |       |       | 9.592              |                  |          |                          |
|      | Deduction   |         |         |         |        |       |       |                    |                  |          |                          |
|      | pipe area   | 1       |         | 0.785   | 9.000  | 0.310 | 0.310 | 0.679              |                  |          |                          |
|      | soling  |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | PCC   |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | Murram bedding  |         |         |         |        |       |       | 0.783              |                  |          |                          |
|      |   |         |         |         |        |       |       | 1.462              |                  |          |                          |
|      |   |         |         |         |        |       |       | 8.130              |                  | 131.934  | 140.064                  |
|      | KGM 23.6.9 to KGM 23.6.10   |         |         |         |        |       |       |                    |                  |          |                          |
|      | CH91.40   | 593.660 | 592.540 | 592.440 |        |       | 1.220 |                    |                  |          |                          |
|      | CH107.75  | 593.170 | 592.600 | 592.500 |        |       | 0.670 | 0.945              |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete. |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 14.350 | 0.870 | 0.345 | 4.307              |                  | 38.713   | 43.020                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.              |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 14.350 | 0.870 | 0.550 | 6.866              |                  | 75.025   | 81.892                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |        |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 14.350 | 0.870 | 0.050 | 0.624              |                  | 31.533   | 32.157                   |
|      | (b) For Lift 1.5m to 3.0m   | 1       |         |         | 14.350 | 0.870 | 0.000 | 0.000              |                  | 13.718   | 13.718                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 14.350 | 0.870 | 0.100 | 1.248              |                  | 9.599    | 10.847                   |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |        |       |       | 2.331              |                  | 18.925   | 21.256                   |
|      | Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia                       | 1       |         |         | 16.000 |       |       | 16.000             |                  | 82.000   | 98.000                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |        |       |       |                    |                  |          |                          |
|      | Total Excavation=   |         |         |         |        |       |       | 11.798             |                  |          |                          |
|      | Deduction   |         |         |         |        |       |       |                    |                  |          |                          |
|      | pipe area   | 1       |         | 0.785   | 14.350 | 0.310 | 0.310 | 1.083              |                  |          |                          |
|      | soling  |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | PCC   |         |         |         |        |       |       | 0.000              |                  |          |                          |
|      | Murram bedding  |         |         |         |        |       |       | 1.248              |                  |          |                          |
|      |   |         |         |         |        |       |       | 2.331              |                  |          |                          |
|      |   |         |         |         |        |       |       | 9.467              |                  | 140.064  | 149.531                  |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon. CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Girja Mata Temple to Naya Nagar 1.2 MH Exc.

### 12th R A BILL MEASUREMENTS OF CHEMBERS GIRJA MATA TEMPLE TO NYAYA NAGAR

| Date | Particulars of work  | DETAILS |         |         |       |       | Content of arrears | Last measurement       |      | Total Upto Date Quantity |          |
|------|--|---------|---------|---------|-------|-------|--------------------|------------------------|------|--------------------------|----------|
|      |  | No      |         |         | L     | B     |                    | D                      | Page |                          | Quantity |
|      |  | GL      | IL      | EX.L    |       |       |                    |                        |      |                          |          |
|      | <b>SEWER AT GIRJA MATA TEMPLE TO NYAYA NAGAR</b>   |         |         |         |       |       |                    |                        |      |                          |          |
|      | Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.66m    |         |         |         |       |       |                    |                        |      |                          |          |
|      | Bredth for chember upto 2m=2.66*2.66=7.075m  |         |         |         |       |       |                    |                        |      |                          |          |
|      | <b>KGM 23.15.1</b>   |         |         |         |       |       |                    |                        |      |                          |          |
|      | <b>CH16.00</b>   | 598.670 | 596.857 | 596.607 |       |       | 2.063              |                        |      |                          |          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.         |         |         |         |       |       |                    |                        |      |                          |          |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 0.785 | 7.075 | 0.950              | 5.28                   | 0.00 | 5.28                     |          |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.           |         |         |         |       |       |                    |                        |      |                          |          |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 0.785 | 7.075 | 0.550              | 3.05                   | 0.00 | 3.05                     |          |
|      | (b) For Lift 1.5m to 3.0m  | 1       |         |         | 0.785 | 7.075 | 0.563              | 3.13                   | 0.00 | 3.13                     |          |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading |         |         |         |       |       |                    | 3.196                  | 0.00 | 3.20                     |          |
|      | Item No. 30 :- Refilling the excavated trenches ...  |         |         |         |       |       |                    |                        |      |                          |          |
|      | <b>Total Excavation(A)=</b>  |         |         |         |       |       |                    | 11.458                 |      |                          |          |
|      | <b>Deduction</b>   |         |         |         |       |       |                    |                        |      |                          |          |
|      | Brick work   | 1       |         |         | 0.785 | 1.31  | 1.31               | 1.813                  | 2.44 |                          |          |
|      | Brick work   |         |         |         |       |       |                    |                        | 0.00 |                          |          |
|      | PCC  | 1       |         |         | 0.785 | 1.96  | 1.96               | 0.250                  | 0.75 |                          |          |
|      | Murrum bedding   |         |         |         |       |       |                    |                        | 0.00 |                          |          |
|      | <b>Total (B)</b>   |         |         |         |       |       |                    | 3.20                   |      |                          |          |
|      |  |         |         |         |       |       |                    | <b>Net Qty = A - B</b> | 8.26 | 0.00                     | 8.26     |
|      | <b>KGM 23.15.2</b>   |         |         |         |       |       |                    |                        |      |                          |          |
|      | <b>CH29.50</b>   | 599.990 | 597.407 | 597.157 |       |       | 2.833              |                        |      |                          |          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.         |         |         |         |       |       |                    |                        |      |                          |          |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 0.785 | 7.075 | 0.950              | 5.28                   | 5.28 | 10.55                    |          |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.           |         |         |         |       |       |                    |                        |      |                          |          |
|      | (a) For Lift 0 to 1.5m   | 1       |         |         | 0.785 | 7.075 | 0.550              | 3.05                   | 3.05 | 6.11                     |          |
|      | (b) For Lift 1.5m to 3.0m  | 1       |         |         | 0.785 | 7.075 | 1.333              | 7.40                   | 3.13 | 10.53                    |          |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading |         |         |         |       |       |                    | 4.234                  | 3.20 | 7.43                     |          |
|      | Item No. 30 :- Refilling the excavated trenches ...  |         |         |         |       |       |                    |                        |      |                          |          |
|      | <b>Total Excavation(A)=</b>  |         |         |         |       |       |                    | 15.734                 |      |                          |          |
|      | <b>Deduction</b>   |         |         |         |       |       |                    |                        |      |                          |          |
|      | Brick work   | 1       |         |         | 0.785 | 1.31  | 1.31               | 2.583                  | 3.48 |                          |          |
|      | Brick work   |         |         |         |       |       |                    |                        | 0.00 |                          |          |
|      | PCC  | 1       |         |         | 0.785 | 1.96  | 1.96               | 0.250                  | 0.75 |                          |          |
|      | Murrum bedding   |         |         |         |       |       |                    |                        | 0.00 |                          |          |
|      | <b>Total (B)</b>   |         |         |         |       |       |                    | 4.23                   |      |                          |          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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11th Girja Mata Temple to Naya Nagar, 0.9 dia Meas.Chamber

| Date | Particulars of work   | DETAILS |         |         |       |       |       | Content of arrears     | Last measurement |               | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|-------|-------|------------------------|------------------|---------------|--------------------------|
|      |   | No      |         |         | L     | B     | D     |                        | Page             | Qty           |                          |
|      |   | GL      | IL      | EX.L    |       |       |       |                        |                  |               |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | 4.302                  |                  |               |                          |
|      | Deduction   |         |         |         |       |       |       |                        |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.200 | 1.200 | 1.120 | 1.266                  |                  |               |                          |
|      | soling  |         |         |         |       |       |       | 0.000                  |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.600 | 1.600 | 0.250 | 0.502                  |                  |               |                          |
|      | Murrum bedding  |         |         |         |       |       |       | 0.000                  |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | 1.768                  |                  |               |                          |
|      |   |         |         |         |       |       |       | <b>Net Qty = A - B</b> |                  |               |                          |
|      | <b>KGM 23.6.3</b>   |         |         |         |       |       |       | <b>2.533</b>           | <b>27.644</b>    | <b>30.178</b> |                          |
|      | CH33.00   | 593.020 | 592.060 | 591.810 |       |       | 1.210 |                        |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                        |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.610 | 1.915                  | 4.704            | 6.619         |                          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                        |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.550 | 1.727                  | 17.930           | 19.657        |                          |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                        |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.050 | 0.157                  | 10.272           | 10.429        |                          |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 1.588                  | 13.259           | 14.846        |                          |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                        |                  |               |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | 3.799                  |                  |               |                          |
|      | Deduction   |         |         |         |       |       |       |                        |                  |               |                          |
|      | Brick work  | 1       |         | 0.785   | 1.200 | 1.200 | 0.960 | 1.085                  |                  |               |                          |
|      | soling  |         |         |         |       |       |       | 0.000                  |                  |               |                          |
|      | PCC   | 1       |         | 0.785   | 1.600 | 1.600 | 0.250 | 0.502                  |                  |               |                          |
|      | Murrum bedding  |         |         |         |       |       |       | 0.000                  |                  |               |                          |
|      | <b>Total (B)</b>  |         |         |         |       |       |       | 1.588                  |                  |               |                          |
|      |   |         |         |         |       |       |       | <b>Net Qty = A - B</b> |                  |               |                          |
|      | <b>KGM 23.6.4</b>   |         |         |         |       |       |       | <b>2.212</b>           | <b>30.178</b>    | <b>32.390</b> |                          |
|      | CH40.20   | 593.150 | 592.120 | 591.870 |       |       | 1.280 |                        |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                        |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.730 | 2.292                  | 6.619            | 8.911         |                          |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                        |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.500 | 1.570                  | 19.657           | 21.227        |                          |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                        |                  |               |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |         | 0.785 | 4.000 | 0.050 | 0.157                  | 10.429           | 10.586        |                          |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |         |       |       |       | 1.667                  | 14.846           | 16.513        |                          |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |         |       |       |       |                        |                  |               |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |         |       |       |       | 4.019                  |                  |               |                          |
|      | Deduction   |         |         |         |       |       |       |                        |                  |               |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main

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11th Girja Mata Temple to Naya Nagar, 0.9 dia Meas Chamber

| Date | Particulars of work   | DETAILS |         |                 |       |       |       | Content of arrears | Last measurement |          | Total Upto Date Quantity |
|------|---|---------|---------|-----------------|-------|-------|-------|--------------------|------------------|----------|--------------------------|
|      |   | GL      | No      |                 | L     | B     | D     |                    | Page             | Quantity |                          |
|      |   |         | IL      | EX.L            |       |       |       |                    |                  |          |                          |
|      | Brick work  | 1       |         | 0.785           | 1.200 | 1.200 | 1.030 |                    |                  | 1.164    |                          |
|      | soling  |         |         |                 |       |       |       |                    |                  | 0.000    |                          |
|      | PCC   | 1       |         | 0.785           | 1.600 | 1.600 | 0.250 |                    |                  | 0.502    |                          |
|      | Murrum bedding  |         |         |                 |       |       |       |                    |                  | 0.000    |                          |
|      | <b>Total (B)</b>  |         |         |                 |       |       |       |                    |                  | 1.667    |                          |
|      | <b>KGM 23.6.5</b>   |         |         |                 |       |       |       |                    |                  | 2.352    |                          |
|      |   |         |         | Net Qty = A - B |       |       |       |                    |                  | 32.390   | 34.742                   |
|      | <b>CH51.20</b>  | 593.380 | 592.180 | 591.930         |       |       | 1.450 |                    |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |                 |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |                 | 0.785 | 4.000 | 0.800 | 2.512              |                  | 8.911    | 11.423                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |                 |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |                 | 0.785 | 4.000 | 0.600 | 1.884              |                  | 21.227   | 23.111                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |                 |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |                 | 0.785 | 4.000 | 0.050 | 0.157              |                  | 10.586   | 10.743                   |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |                 |       |       |       | 1.859              |                  | 16.513   | 18.372                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |                 |       |       |       |                    |                  |          |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |                 |       |       |       | 4.553              |                  |          |                          |
|      | <b>Deduction</b>  |         |         |                 |       |       |       |                    |                  |          |                          |
|      | Brick work  | 1       |         | 0.785           | 1.200 | 1.200 | 1.200 | 1.356              |                  |          |                          |
|      | soling  |         |         |                 |       |       |       | 0.000              |                  |          |                          |
|      | PCC   | 1       |         | 0.785           | 1.600 | 1.600 | 0.250 | 0.502              |                  |          |                          |
|      | Murrum bedding  |         |         |                 |       |       |       | 0.000              |                  |          |                          |
|      | <b>Total (B)</b>  |         |         |                 |       |       |       | 1.859              |                  |          |                          |
|      | <b>KGM 23.6.6</b>   |         |         |                 |       |       |       | 2.694              |                  | 34.742   | 37.436                   |
|      |   |         |         |                 |       |       |       |                    |                  |          |                          |
|      | <b>CH58.40</b>  | 593.410 | 592.250 | 592.000         |       |       | 1.410 |                    |                  |          |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |                 |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |                 | 0.785 | 4.000 | 0.810 | 2.543              |                  | 11.423   | 13.967                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |                 |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |                 | 0.785 | 4.000 | 0.550 | 1.727              |                  | 23.111   | 24.838                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |                 |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m  | 1       |         |                 | 0.785 | 4.000 | 0.050 | 0.157              |                  | 10.743   | 10.900                   |
|      | Item No. : 11 Transportation of earth Transportation charges                                    |         |         |                 |       |       |       | 1.814              |                  | 18.372   | 20.185                   |
|      | Item No. 30 :- Refilling the excavated trenches ...   |         |         |                 |       |       |       |                    |                  |          |                          |
|      | <b>Total Excavation(A)=</b>   |         |         |                 |       |       |       | 4.427              |                  |          |                          |
|      | <b>Deduction</b>  |         |         |                 |       |       |       |                    |                  |          |                          |
|      | Brick work  | 1       |         | 0.785           | 1.200 | 1.200 | 1.160 | 1.311              |                  |          |                          |
|      | soling  |         |         |                 |       |       |       | 0.000              |                  |          |                          |



*[Handwritten Signature]*





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main

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14th Girja Mata Temple to Naya Nagar, 0.9 dia Meas.Chamber

| Date | Particulars of work  | DETAILS         |         |         |       |       |       | Content of arrears | Last measurement |          | Total Upto Date Quantity |
|------|--|-----------------|---------|---------|-------|-------|-------|--------------------|------------------|----------|--------------------------|
|      |  | No              |         |         | L     | B     | D     |                    | Page             | Quantity |                          |
|      |  | GL              | IL      | EX.L    |       |       |       |                    |                  |          |                          |
|      | <b>Total (B)</b>   |                 |         |         |       |       |       | 1.780              |                  |          |                          |
|      |  | Net Qty = A - B |         |         |       |       |       | 2.553              | 42.644           | 45.197   |                          |
|      | <b>KGM 23.6.9</b>  |                 |         |         |       |       |       |                    |                  |          |                          |
|      | <b>CH91.40</b>   | 593.660         | 592.520 | 592.270 |       |       | 1.390 |                    |                  |          |                          |
|      | <b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |                 |         |         |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1               |         |         | 0.785 | 4.000 | 0.840 | 2.638              | 19.085           | 21.723   |                          |
|      | <b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.              |                 |         |         |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1               |         |         | 0.785 | 4.000 | 0.500 | 1.570              | 28.135           | 29.705   |                          |
|      | <b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.                |                 |         |         |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1               |         |         | 0.785 | 4.000 | 0.050 | 0.157              | 11.214           | 11.371   |                          |
|      | <b>Item No. : 11</b> Transportation of earth Transportation charges                                    |                 |         |         |       |       |       | 1.791              | 23.768           | 25.559   |                          |
|      | <b>Item No. 30 :-</b> Refilling the excavated trenches ...   |                 |         |         |       |       |       |                    |                  |          |                          |
|      | <b>Total Excavation(A)=</b>  |                 |         |         |       |       |       | 4.365              |                  |          |                          |
|      | <b>Deduction</b>   |                 |         |         |       |       |       |                    |                  |          |                          |
|      | Brick work   | 1               |         |         | 0.785 | 1.200 | 1.200 | 1.140              | 1.289            |          |                          |
|      | soling   |                 |         |         |       |       |       |                    | 0.000            |          |                          |
|      | PCC  | 1               |         |         | 0.785 | 1.600 | 1.600 | 0.250              | 0.502            |          |                          |
|      | Murrum bedding   |                 |         |         |       |       |       |                    | 0.000            |          |                          |
|      | <b>Total (B)</b>   |                 |         |         |       |       |       | 1.791              |                  |          |                          |
|      |  | Net Qty = A - B |         |         |       |       |       | 2.574              | 45.197           | 47.770   |                          |
|      | <b>KGM 23.6.10</b>   |                 |         |         |       |       |       |                    |                  |          |                          |
|      | <b>CH107.75</b>  | 593.170         | 592.600 | 592.350 |       |       | 0.820 |                    |                  |          |                          |
|      | <b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |                 |         |         |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1               |         |         | 0.785 | 4.000 | 0.220 | 0.691              | 21.723           | 22.413   |                          |
|      | <b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.              |                 |         |         |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1               |         |         | 0.785 | 4.000 | 0.550 | 1.727              | 29.705           | 31.432   |                          |
|      | <b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.                |                 |         |         |       |       |       |                    |                  |          |                          |
|      | (a) For Lift 0 to 1.5m   | 1               |         |         | 0.785 | 4.000 | 0.050 | 0.157              | 11.371           | 11.528   |                          |
|      | <b>Item No. : 11</b> Transportation of earth Transportation charges                                    |                 |         |         |       |       |       | 1.147              | 25.559           | 26.705   |                          |
|      | <b>Item No. 30 :-</b> Refilling the excavated trenches ...   |                 |         |         |       |       |       |                    |                  |          |                          |
|      | <b>Total Excavation(A)=</b>  |                 |         |         |       |       |       | 2.575              |                  |          |                          |
|      | <b>Deduction</b>   |                 |         |         |       |       |       |                    |                  |          |                          |
|      | Brick work   | 1               |         |         | 0.785 | 1.200 | 1.200 | 0.570              | 0.644            |          |                          |
|      | soling   |                 |         |         |       |       |       |                    | 0.000            |          |                          |
|      | PCC  | 1               |         |         | 0.785 | 1.600 | 1.600 | 0.250              | 0.502            |          |                          |
|      | Murrum bedding   |                 |         |         |       |       |       |                    | 0.000            |          |                          |
|      | <b>Total (B)</b>   |                 |         |         |       |       |       | 1.147              |                  |          |                          |
|      |  | Net Qty = A - B |         |         |       |       |       | 1.428              | 47.770           | 49.199   |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Vencture)

**Authority No.** AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

Date  
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1 of 1

12th Girja Mata Temple to Naya Nagar, Manhole Details

### 12th RA BILL MEASUREMENTS

#### Branch Sewer at GIRJA MATA TEMPLE TO NYAYA NAGAR

Extra Item No. : 02 Providing and constructing on sewer BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M

| Sr.No. | Chainage  | MH No       | MTL     | IL      | Depth | Depth Difference than 1.5 m | Total Difference | Rebate/Add for Excess height (per 30 cm) |
|--------|-----------|-------------|---------|---------|-------|-----------------------------|------------------|--|
| 1      | CH 11.00  | KGM 23.6.1  | 592.990 | 591.812 | 1.178 | -0.322                      |                  |  |
| 2      | CH 22.00  | KGM 23.6.2  | 593.000 | 591.880 | 1.120 | -0.380                      |                  |  |
| 3      | CH 33.00  | KGM 23.6.3  | 593.020 | 592.060 | 0.960 | -0.540                      |                  |  |
| 4      | CH 40.20  | KGM 23.6.4  | 593.150 | 592.120 | 1.030 | -0.470                      |                  |  |
| 5      | CH 51.20  | KGM 23.6.5  | 593.380 | 592.180 | 1.200 | -0.300                      |                  |  |
| 6      | CH 58.40  | KGM 23.6.6  | 593.410 | 592.250 | 1.160 | -0.340                      | -4.362           | -14.540                                  |
| 7      | CH 69.40  | KGM 23.6.7  | 593.470 | 592.320 | 1.150 | -0.350                      |                  |  |
| 8      | CH 80.40  | KGM 23.6.8  | 593.570 | 592.440 | 1.130 | -0.370                      |                  |  |
| 9      | CH 91.40  | KGM 23.6.9  | 593.660 | 592.520 | 1.140 | -0.360                      |                  |  |
| 10     | CH 107.75 | KGM 23.6.10 | 593.170 | 592.600 | 0.570 | -0.930                      |                  |  |
|        |           |             |         |         |       |                             | <b>Total</b>     | <b>-14.540</b>                           |

Item No. : 21 Providing and constructing on sewer BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M

| Sr.No. | Chainage | MH No       | MTL     | IL      | Depth | Depth Difference than 2.0 m | Total Difference | Rebate/Add for Excess height (per 50 cm) |
|--------|----------|-------------|---------|---------|-------|-----------------------------|------------------|--|
| 1      | CH 16.00 | KGM 23.15.1 | 598.670 | 596.857 | 1.813 | -0.187                      |                  |  |
| 2      | CH 29.50 | KGM 23.15.2 | 599.990 | 597.407 | 2.583 | 0.583                       | -0.511           | -1.022                                   |
| 3      | CH 40.50 | KGM 23.15.3 | 599.000 | 597.907 | 1.093 | -0.907                      |                  |  |
|        |          |             |         |         |       |                             | <b>Total</b>     | <b>-1.022</b>                            |







# AURANGABAD MUNICIPAL CORPORATION

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Page No. :-

**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

**Authority No.** AMC/Ward B&C/UIDSSMT/2014/184 **Date** 01.07.2014

11th Girja Mata Temple to Naya Nagar Quantity Node Abstract

**11th R A BILL MEASUREMENTS**

**Branch Sewer at GIRJA MATA TEMPLE TO NYAYA NAGAR**

| SR NO | Description  | MB/PG | ITEM 1 |        | ITEM 2 |        | ITEM 4 |        | ITEM 7 | ITEM 11 | ITEM 21 upto 2 m | ITEM 21.1 Rebate | ITEM 30        | EIRL 2        |                 | EIRL 2.a |        | EIRL 9.3      |               | EIRL 9.4      |               |       |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|---------|------------------|------------------|----------------|---------------|-----------------|----------|--------|---------------|---------------|---------------|---------------|-------|
|       |              |       | 0-1.5  | 43.020 | 0-1.5  | 81.892 | 0-1.5  | 32.157 |        |         |                  |                  |                | 1.5-3.0       | 13.718          | 10.847   | 21.256 | Full Rate     | Rebate        | 250mm         | 300mm         | 250mm |
| 1     | For Pipe     |       |        |        |        |        |        |        |        |         |                  |                  | 149.531        | 98.000        |                 |          | 98.000 | 37.500        | 98.000        | 37.500        |               |       |
| 2     | For Manhole  |       |        |        |        |        |        |        |        |         | 3.000            | (1.022)          | 49.199         | 10.000        | (14.540)        |          |        |               |               |               |               |       |
|       | <b>Total</b> |       |        |        |        |        |        |        |        |         | <b>3.000</b>     | <b>(1.022)</b>   | <b>198.729</b> | <b>10.000</b> | <b>(14.540)</b> |          |        | <b>98.000</b> | <b>37.500</b> | <b>98.000</b> | <b>37.500</b> |       |



| ent | Quantity | Total up to Date |
|-----|----------|------------------|
|     | 10       |                  |