



# 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

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Silekhana-03-200mm DWC - Measurement

| Date | Particulars of work                                                                             | DETAILS |         |         |       |       |       | Content of arrears | Last measurment |        | Total Upto Date Quantity |
|------|-------------------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|-----------------|--------|--------------------------|
|      |                                                                                                 | No      |         |         | L     | B     | D     |                    | Page            | Qty.   |                          |
|      |                                                                                                 | GL      | IL      | EX.L    |       |       |       |                    |                 |        |                          |
|      | PCC                                                                                             |         |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Murrum bedding                                                                                  |         |         |         |       |       |       | 0.26               |                 |        |                          |
|      |                                                                                                 |         |         |         |       |       |       | 0.38               |                 |        |                          |
|      | Net Qty = A - B                                                                                 |         |         |         |       |       |       | 1.35               |                 | 34.70  | 36.05                    |
|      | SL10 TO SL11                                                                                    |         |         |         |       |       |       |                    |                 |        |                          |
|      | CH80.85                                                                                         | 576.540 | 575.860 | 575.760 |       |       | 0.780 | 0.835              |                 |        |                          |
|      | CH89.95                                                                                         | 576.930 | 576.140 | 576.040 |       |       | 0.890 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 7.100 | 0.700 | 0.835 | 4.150              |                 | 40.518 | 44.668                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 7.700 | 0.700 | 0.100 | 0.539              |                 | 4.778  | 5.317                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |       |       |       | 0.781              |                 | 6.921  | 7.701                    |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                       | 1       |         |         | 8.200 |       |       | 8.200              |                 | 72.750 | 80.950                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                             |         |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation=                                                                               |         |         |         |       |       |       | 4.150              |                 |        |                          |
|      | Deduction of 200mm dia pipe                                                                     |         |         |         |       |       |       |                    |                 |        |                          |
|      | pipe area                                                                                       | 1.00    |         | 0.785   | 7.700 | 0.200 | 0.200 | 0.24               |                 |        |                          |
|      | soling                                                                                          |         |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                             |         |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Murrum bedding                                                                                  |         |         |         |       |       |       | 0.54               |                 |        |                          |
|      |                                                                                                 |         |         |         |       |       |       | 0.78               |                 |        |                          |
|      | Net Qty = A - B                                                                                 |         |         |         |       |       |       | 3.37               |                 | 36.05  | 39.42                    |
|      | SL11 TO SL12                                                                                    |         |         |         |       |       |       |                    |                 |        |                          |
|      | CH89.95                                                                                         | 576.930 | 576.140 | 576.040 |       |       | 0.890 | 0.810              |                 |        |                          |
|      | CH97.45                                                                                         | 576.790 | 576.160 | 576.060 |       |       | 0.730 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 5.500 | 0.700 | 0.810 | 3.119              |                 | 44.668 | 47.786                   |
|      | Item No. 7 :- Pilling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 6.100 | 0.700 | 0.100 | 0.427              |                 | 5.317  | 5.744                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |       |       |       | 0.619              |                 | 7.701  | 8.320                    |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                       | 1       |         |         | 6.600 |       |       | 6.600              |                 | 80.950 | 87.550                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                             |         |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation=                                                                               |         |         |         |       |       |       | 3.119              |                 |        |                          |
|      | Deduction of 200mm dia pipe                                                                     |         |         |         |       |       |       |                    |                 |        |                          |
|      | pipe area                                                                                       | 1.00    |         | 0.785   | 6.100 | 0.200 | 0.200 | 0.19               |                 |        |                          |



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**Measurement Book**

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahim 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

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Silekhana-03-200mm DWC - Measurement

| Date | Particulars of work                                                                             | DETAILS         |         |         |        |       |       | Content of arrears | Last measurment |        | Total Upto Date Quantity |
|------|-------------------------------------------------------------------------------------------------|-----------------|---------|---------|--------|-------|-------|--------------------|-----------------|--------|--------------------------|
|      |                                                                                                 | No              |         |         | L      | B     | D     |                    | Page            | Qty.   |                          |
|      |                                                                                                 | GL              | IL      | EX.L    |        |       |       |                    |                 |        |                          |
|      | soling                                                                                          |                 |         |         |        |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                             |                 |         |         |        |       |       | 0.00               |                 |        |                          |
|      | Murrum bedding                                                                                  |                 |         |         |        |       |       | 0.43               |                 |        |                          |
|      |                                                                                                 |                 |         |         |        |       |       | 0.62               |                 |        |                          |
|      |                                                                                                 | Net Qty = A - B |         |         |        |       |       | 2.50               |                 | 39.42  | 41.92                    |
|      | SL12 TO SL13                                                                                    |                 |         |         |        |       |       |                    |                 |        |                          |
|      | CH97.45                                                                                         | 576.790         | 576.160 | 576.060 |        |       | 0.730 | 0.690              |                 |        |                          |
|      | CH109.15                                                                                        | 576.810         | 576.260 | 576.160 |        |       | 0.650 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |                 |         |         |        |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1               |         |         | 9.700  | 0.700 | 0.690 | 4.685              |                 | 47.786 | 52.471                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1               |         |         | 10.300 | 0.700 | 0.100 | 0.721              |                 | 5.744  | 6.465                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |                 |         |         |        |       |       | 1.044              |                 | 8.320  | 9.364                    |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                       | 1               |         |         | 10.800 |       |       | 10.800             |                 | 87.550 | 98.350                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                             |                 |         |         |        |       |       |                    |                 |        |                          |
|      | Total Excavation=                                                                               |                 |         |         |        |       |       | 4.685              |                 |        |                          |
|      | Deduction of 200mm dia pipe                                                                     |                 |         |         |        |       |       |                    |                 |        |                          |
|      | pipe area                                                                                       | 1.00            |         | 0.785   | 10.300 | 0.200 | 0.200 | 0.32               |                 |        |                          |
|      | soling                                                                                          |                 |         |         |        |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                             |                 |         |         |        |       |       | 0.00               |                 |        |                          |
|      | Murrum bedding                                                                                  |                 |         |         |        |       |       | 0.72               |                 |        |                          |
|      |                                                                                                 |                 |         |         |        |       |       | 1.04               |                 |        |                          |
|      |                                                                                                 | Net Qty = A - B |         |         |        |       |       | 3.64               |                 | 41.92  | 45.56                    |
|      | SL5 TO SL5.1                                                                                    |                 |         |         |        |       |       |                    |                 |        |                          |
|      | CH0.00                                                                                          | 576.260         | 575.445 | 575.345 |        |       | 0.915 | 0.913              |                 |        |                          |
|      | CH12.65                                                                                         | 576.245         | 575.435 | 575.335 |        |       | 0.910 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |                 |         |         |        |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1               |         |         | 10.650 | 0.700 | 0.913 | 6.803              |                 | 52.471 | 59.274                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1               |         |         | 11.250 | 0.700 | 0.100 | 0.788              |                 | 6.465  | 7.252                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |                 |         |         |        |       |       | 1.141              |                 | 9.364  | 10.505                   |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                       | 1               |         |         | 11.750 |       |       | 11.750             |                 | 98.350 | 110.100                  |
|      | Item No. 30 :- Refilling the excavated trenches ...                                             |                 |         |         |        |       |       |                    |                 |        |                          |
|      | Total Excavation=                                                                               |                 |         |         |        |       |       | 6.803              |                 |        |                          |
|      | Deduction of 200mm dia pipe                                                                     |                 |         |         |        |       |       |                    |                 |        |                          |



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## Measurement Book

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Silekhana-03-200mm DWC - Measurement

| Date | Particulars of work                                                                            | DETAILS         |         |         |        |       |       | Content of arrears | Last measurement |         | Total Upto Date Quantity |
|------|------------------------------------------------------------------------------------------------|-----------------|---------|---------|--------|-------|-------|--------------------|------------------|---------|--------------------------|
|      |                                                                                                | GL              | No IL   | EX.L    | L      | B     | D     |                    | Page             | Qty.    |                          |
|      | pipe area                                                                                      | 1.00            |         | 0.785   | 11.250 | 0.200 | 0.200 | 0.35               |                  |         |                          |
|      | soling                                                                                         |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | PCC                                                                                            |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | Murum bedding                                                                                  |                 |         |         |        |       |       | 0.79               |                  |         |                          |
|      |                                                                                                |                 |         |         |        |       |       | 1.14               |                  |         |                          |
|      |                                                                                                | Net Qty = A - B |         |         |        |       |       | 5.66               |                  | 45.56   | 51.22                    |
|      | SL5.1 TO SL5.3                                                                                 |                 |         |         |        |       |       |                    |                  |         |                          |
|      | CH12.65                                                                                        | 576.245         | 575.435 | 575.335 |        |       | 0.910 | 0.930              |                  |         |                          |
|      | CH17.55                                                                                        | 576.350         | 575.500 | 575.400 |        |       | 0.950 |                    |                  |         |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |                 |         |         |        |       |       |                    |                  |         |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1               |         |         | 2.900  | 0.700 | 0.930 | 1.888              |                  | 59.274  | 61.162                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1               |         |         | 3.500  | 0.700 | 0.100 | 0.245              |                  | 7.252   | 7.497                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |                 |         |         |        |       |       | 0.355              |                  | 10.505  | 10.860                   |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                      | 1               |         |         | 4.000  |       |       | 4.000              |                  | 110.100 | 114.100                  |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |                 |         |         |        |       |       |                    |                  |         |                          |
|      | Total Excavation=                                                                              |                 |         |         |        |       |       | 1.888              |                  |         |                          |
|      | Deduction of 200mm dia pipe                                                                    |                 |         |         |        |       |       |                    |                  |         |                          |
|      | pipe area                                                                                      | 1.00            |         | 0.785   | 3.500  | 0.200 | 0.200 | 0.11               |                  |         |                          |
|      | soling                                                                                         |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | PCC                                                                                            |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | Murum bedding                                                                                  |                 |         |         |        |       |       | 0.25               |                  |         |                          |
|      |                                                                                                |                 |         |         |        |       |       | 0.35               |                  |         |                          |
|      |                                                                                                | Net Qty = A - B |         |         |        |       |       | 1.53               |                  | 51.22   | 52.75                    |
|      | SL5.3 TO SL5.4                                                                                 |                 |         |         |        |       |       |                    |                  |         |                          |
|      | CH17.55                                                                                        | 576.350         | 575.500 | 575.400 |        |       | 0.950 | 0.945              |                  |         |                          |
|      | CH25.05                                                                                        | 576.440         | 575.600 | 575.500 |        |       | 0.940 |                    |                  |         |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |                 |         |         |        |       |       |                    |                  |         |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1               |         |         | 5.500  | 0.700 | 0.945 | 3.638              |                  | 61.162  | 64.800                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1               |         |         | 6.100  | 0.700 | 0.100 | 0.427              |                  | 7.497   | 7.924                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |                 |         |         |        |       |       | 0.619              |                  | 10.860  | 11.478                   |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                      | 1               |         |         | 6.600  |       |       | 6.600              |                  | 114.100 | 120.700                  |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |                 |         |         |        |       |       |                    |                  |         |                          |
|      | Total Excavation=                                                                              |                 |         |         |        |       |       | 3.638              |                  |         |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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Silekhana-03-200mm DWC - Measurement

| Date | Particulars of work                                                                                   | DETAILS |         |         |       |       |       | Content of arrears | Last measurment |              | Total Upto Date Quantity |
|------|-------------------------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|-----------------|--------------|--------------------------|
|      |                                                                                                       | GL      | No IL   | EX.L    | L     | B     | D     |                    | Page            | Qty.         |                          |
|      | <b>Total Excavation=</b>                                                                              |         |         |         |       |       |       | <b>4.396</b>       |                 |              |                          |
|      | <b>Deduction of 200mm dia pipe</b>                                                                    |         |         |         |       |       |       |                    |                 |              |                          |
|      | pipe area                                                                                             | 1.00    |         | 0.785   | 8.550 | 0.200 | 0.200 | 0.27               |                 |              |                          |
|      | soling                                                                                                |         |         |         |       |       |       | 0.00               |                 |              |                          |
|      | PCC                                                                                                   |         |         |         |       |       |       | 0.00               |                 |              |                          |
|      | Murum bedding                                                                                         |         |         |         |       |       |       | 0.60               |                 |              |                          |
|      |                                                                                                       |         |         |         |       |       |       | 0.87               |                 |              |                          |
|      | <b>Net Qty = A - B</b>                                                                                |         |         |         |       |       |       | <b>3.53</b>        |                 | <b>59.61</b> | <b>63.14</b>             |
|      | <b>SL5.5.2 TO SL5.5.3</b>                                                                             |         |         |         |       |       |       |                    |                 |              |                          |
|      | CH45.00                                                                                               | 576.585 | 575.845 | 575.745 |       |       | 0.840 | 0.810              |                 |              |                          |
|      | CH54.75                                                                                               | 576.635 | 575.955 | 575.855 |       |       | 0.780 |                    |                 |              |                          |
|      | <b>Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.</b> |         |         |         |       |       |       |                    |                 |              |                          |
|      | <b>(a) For Lift 0 to 1.5m</b>                                                                         | 1       |         |         | 7.750 | 0.700 | 0.810 | 4.394              |                 | 73.900       | 78.295                   |
|      | <b>Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)</b>                    | 1       |         |         | 8.350 | 0.700 | 0.100 | 0.585              |                 | 9.125        | 9.709                    |
|      | <b>Item No. : 11 Transportation of earth Transportation charges including loading &amp; unloading</b> |         |         |         |       |       |       | 0.847              |                 | 13.217       | 14.064                   |
|      | <b>Item No. 13 :- (b)Lowering &amp; Laying of Polyethylene DWC pipe of 200mm Dia</b>                  | 1       |         |         | 8.850 |       |       | 8.850              |                 | 138.850      | 147.700                  |
|      | <b>Item No. 30 :- Refilling the excavated trenches ...</b>                                            |         |         |         |       |       |       |                    |                 |              |                          |
|      | <b>Total Excavation=</b>                                                                              |         |         |         |       |       |       | <b>4.394</b>       |                 |              |                          |
|      | <b>Deduction of 200mm dia pipe</b>                                                                    |         |         |         |       |       |       |                    |                 |              |                          |
|      | pipe area                                                                                             | 1.00    |         | 0.785   | 8.350 | 0.200 | 0.200 | 0.26               |                 |              |                          |
|      | soling                                                                                                |         |         |         |       |       |       | 0.00               |                 |              |                          |
|      | PCC                                                                                                   |         |         |         |       |       |       | 0.00               |                 |              |                          |
|      | Murum bedding                                                                                         |         |         |         |       |       |       | 0.58               |                 |              |                          |
|      |                                                                                                       |         |         |         |       |       |       | 0.85               |                 |              |                          |
|      | <b>Net Qty = A - B</b>                                                                                |         |         |         |       |       |       | <b>3.55</b>        |                 | <b>63.14</b> | <b>66.68</b>             |
|      | <b>SL5.5 TO SL5.5.1</b>                                                                               |         |         |         |       |       |       |                    |                 |              |                          |
|      | CH0.00                                                                                                | 576.380 | 575.740 | 575.640 |       |       | 0.740 | 0.685              |                 |              |                          |
|      | CH5.95                                                                                                | 576.535 | 576.005 | 575.905 |       |       | 0.630 |                    |                 |              |                          |
|      | <b>Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.</b> |         |         |         |       |       |       |                    |                 |              |                          |
|      | <b>(a) For Lift 0 to 1.5m</b>                                                                         | 1       |         |         | 3.950 | 0.700 | 0.685 | 1.894              |                 | 78.295       | 80.189                   |
|      | <b>Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)</b>                    | 1       |         |         | 4.550 | 0.700 | 0.100 | 0.319              |                 | 9.709        | 10.028                   |
|      | <b>Item No. : 11 Transportation of earth Transportation charges including loading &amp; unloading</b> |         |         |         |       |       |       | 0.461              |                 | 14.064       | 14.526                   |
|      | <b>Item No. 13 :- (b)Lowering &amp; Laying of Polyethylene DWC pipe of 200mm Dia</b>                  | 1       |         |         | 5.050 |       |       | 5.050              |                 | 147.700      | 152.750                  |



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Silekhana-03-200mm DWC - Measurement

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| Date |  | Particulars of work                                                                            | DETAILS         |         |         |       |       | Content of arrears | Last measurement |         | Total Upto Date Quantity |      |
|------|--|------------------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|--------------------|------------------|---------|--------------------------|------|
|      |  |                                                                                                | No              |         |         | L     | B     |                    | D                | Page    |                          | Qty. |
|      |  |                                                                                                | GL              | IL      | EX.L    |       |       |                    |                  |         |                          |      |
|      |  | Item No. 30 :- Refilling the excavated trenches ...                                            |                 |         |         |       |       |                    | 1.894            |         |                          |      |
|      |  | Total Excavation=                                                                              |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | Deduction of 200mm dia pipe                                                                    |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | pipe area                                                                                      | 1.00            |         | 0.785   | 4.550 | 0.200 | 0.200              | 0.14             |         |                          |      |
|      |  | soling                                                                                         |                 |         |         |       |       |                    | 0.00             |         |                          |      |
|      |  | PCC                                                                                            |                 |         |         |       |       |                    | 0.32             |         |                          |      |
|      |  | Murum bedding                                                                                  |                 |         |         |       |       |                    | 0.46             |         |                          |      |
|      |  |                                                                                                |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  |                                                                                                | Net Qty = A - B |         |         |       |       |                    | 1.43             | 66.68   | 68.12                    |      |
|      |  | SL5.1 TO SL5.2                                                                                 |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | CH0.00                                                                                         | 576.245         | 575.435 | 575.335 |       |       | 0.910              | 0.868            |         |                          |      |
|      |  | CH5.95                                                                                         | 576.415         | 575.690 | 575.590 |       |       | 0.825              |                  |         |                          |      |
|      |  | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | (a) For Lift 0 to 1.5m                                                                         | 1               |         |         | 3.950 | 0.700 | 0.868              | 2.399            | 80.189  | 82.587                   |      |
|      |  | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1               |         |         | 4.550 | 0.700 | 0.100              | 0.319            | 10.028  | 10.346                   |      |
|      |  | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |                 |         |         |       |       |                    | 0.461            | 14.526  | 14.987                   |      |
|      |  | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                      | 1               |         |         | 5.050 |       |                    | 5.050            | 152.750 | 157.800                  |      |
|      |  | Item No. 30 :- Refilling the excavated trenches ...                                            |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | Total Excavation=                                                                              |                 |         |         |       |       |                    | 2.399            |         |                          |      |
|      |  | Deduction of 200mm dia pipe                                                                    |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | pipe area                                                                                      | 1.00            |         | 0.785   | 4.550 | 0.200 | 0.200              | 0.14             |         |                          |      |
|      |  | soling                                                                                         |                 |         |         |       |       |                    | 0.00             |         |                          |      |
|      |  | PCC                                                                                            |                 |         |         |       |       |                    | 0.00             |         |                          |      |
|      |  | Murum bedding                                                                                  |                 |         |         |       |       |                    | 0.32             |         |                          |      |
|      |  |                                                                                                |                 |         |         |       |       |                    | 0.46             |         |                          |      |
|      |  |                                                                                                | Net Qty = A - B |         |         |       |       |                    | 1.94             | 68.12   | 70.05                    |      |
|      |  | SL03 TO SL03.1                                                                                 |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | CH0.00                                                                                         | 576.060         | 575.000 | 574.900 |       |       | 1.160              | 1.077            |         |                          |      |
|      |  | CH9.65                                                                                         | 576.030         | 575.135 | 575.035 |       |       | 0.995              |                  |         |                          |      |
|      |  | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |                 |         |         |       |       |                    |                  |         |                          |      |
|      |  | (a) For Lift 0 to 1.5m                                                                         | 1               |         |         | 7.650 | 0.700 | 1.077              | 5.770            | 82.587  | 88.357                   |      |
|      |  | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1               |         |         | 8.250 | 0.700 | 0.100              | 0.578            | 10.346  | 10.924                   |      |
|      |  | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |                 |         |         |       |       |                    | 0.837            | 14.987  | 15.823                   |      |



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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 Venture)

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

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Silekhana-03-200mm DWC - Measurement

| Date | Particulars of work                                                                                                          | DETAILS         |         |         |        |       |       | Content of arrears | Last measurement |         | Total Upto Date Quantity |
|------|------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|---------|--------|-------|-------|--------------------|------------------|---------|--------------------------|
|      |                                                                                                                              | No              |         |         | L      | B     | D     |                    | Page             | Qty.    |                          |
|      |                                                                                                                              | GL              | IL      | EX.L    |        |       |       |                    |                  |         |                          |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                                                    | 1               |         |         | 8.750  |       |       | 8.750              |                  | 157.800 | 166.550                  |
|      | Item No. 30 :- Refilling the excavated-trenches ...                                                                          |                 |         |         |        |       |       |                    |                  |         |                          |
|      | Total Excavation=                                                                                                            |                 |         |         |        |       |       | 5.770              |                  |         |                          |
|      | Deduction of 200mm dia pipe                                                                                                  |                 |         |         |        |       |       |                    |                  |         |                          |
|      | pipe area                                                                                                                    | 1.00            |         | 0.785   | 8.250  | 0.200 | 0.200 | 0.26               |                  |         |                          |
|      | soling                                                                                                                       |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | PCC                                                                                                                          |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | Murrum bedding                                                                                                               |                 |         |         |        |       |       | 0.58               |                  |         |                          |
|      |                                                                                                                              |                 |         |         |        |       |       | 0.84               |                  |         |                          |
|      |                                                                                                                              | Net Qty = A - B |         |         |        |       |       | 4.93               |                  | 70.05   | 74.99                    |
|      | SL03.1 TO SL03.2                                                                                                             |                 |         |         |        |       |       |                    |                  |         |                          |
|      | CH9.65                                                                                                                       | 576.030         | 575.135 | 575.035 |        |       | 0.995 | 0.967              |                  |         |                          |
|      | CH20.55                                                                                                                      | 576.560         | 575.720 | 575.620 |        |       | 0.940 |                    |                  |         |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.                              |                 |         |         |        |       |       |                    |                  |         |                          |
|      | (a) For Lift 0 to 1.5m                                                                                                       | 1               |         |         | 8.900  | 0.700 | 0.967 | 6.028              |                  | 88.357  | 94.385                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                                             |                 |         |         |        |       |       |                    |                  |         |                          |
|      | (a) For Lift 0 to 1.5m                                                                                                       | 1               |         |         | 8.900  | 0.700 | 0.000 | 0.000              |                  | 2.454   | 2.454                    |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                                                  | 1               |         |         | 9.500  | 0.700 | 0.100 | 0.665              |                  | 10.924  | 11.589                   |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading                                   |                 |         |         |        |       |       | 0.963              |                  | 15.823  | 16.787                   |
|      | Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia                                                    | 1               |         |         | 10.000 |       |       | 10.000             |                  | 166.550 | 176.550                  |
|      | Item No. 30 :- Refilling the excavated trenches ...                                                                          |                 |         |         |        |       |       |                    |                  |         |                          |
|      | Total Excavation=                                                                                                            |                 |         |         |        |       |       | 6.028              |                  |         |                          |
|      | Deduction of 200mm dia pipe                                                                                                  |                 |         |         |        |       |       |                    |                  |         |                          |
|      | pipe area                                                                                                                    | 1.00            |         | 0.785   | 9.500  | 0.200 | 0.200 | 0.30               |                  |         |                          |
|      | soling                                                                                                                       |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | PCC                                                                                                                          |                 |         |         |        |       |       | 0.00               |                  |         |                          |
|      | Murrum bedding                                                                                                               |                 |         |         |        |       |       | 0.67               |                  |         |                          |
|      |                                                                                                                              |                 |         |         |        |       |       | 0.96               |                  |         |                          |
|      |                                                                                                                              | Net Qty = A - B |         |         |        |       |       | 5.06               |                  | 74.99   | 80.05                    |
|      | Item No :35 Shifting of Existing Utilities Length considered up to 400mm Including all and as directed by Engineer In-Charge |                 |         |         | 0.163  |       |       | 0.16               |                  |         | 0.16                     |



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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

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Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

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### 12th RA BILL MEASUREMENTS DWC CHEMBER SILEKHANA-03

| Date | Particulars of work                                                                            | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |       | Total Upto Date Quantity |
|------|------------------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|------------------|-------|--------------------------|
|      |                                                                                                | GL      | No IL   | EX.L    | L     | B     | D     |                    | Page             | Qty.  |                          |
|      | <b>DWC - 200mm Dia</b>                                                                         |         |         |         |       |       |       |                    |                  |       |                          |
|      | Excavation of Chamber - For 0.9 mt.Dia of chamber up to Depth of 2.0 mt.- 0.9+0.5+0.3+0.3=2.0m |         |         |         |       |       |       |                    |                  |       |                          |
|      | Bredth for Square chamber up to Depth of 2m= 2 * 2=4m                                          |         |         |         |       |       |       |                    |                  |       |                          |
|      | SL0 1                                                                                          |         |         |         |       |       |       |                    |                  |       |                          |
|      | CH0.00                                                                                         | 575.200 | 574.360 | 574.110 |       |       | 1.090 |                    |                  |       |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc          |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1       |         |         | 0.785 | 4.000 | 0.990 | 3.109              |                  | 0.000 | 3.109                    |
|      | 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 | 0.100 | 0.314              |                  | 0.000 | 0.314                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                   |         |         |         |       |       |       | 1.365              |                  | 0.000 | 1.365                    |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |         |         |         |       |       |       |                    |                  |       |                          |
|      | <b>Total Excavation(A)=</b>                                                                    |         |         |         |       |       |       | 3.423              |                  |       |                          |
|      | <b>Deduction</b>                                                                               |         |         |         |       |       |       |                    |                  |       |                          |
|      | Brick work                                                                                     | 1.00    |         | 0.785   | 1.160 | 1.160 | 0.840 | 0.89               |                  |       |                          |
|      | soling                                                                                         |         |         |         |       |       |       | 0.00               |                  |       |                          |
|      | PCC                                                                                            | 1.00    |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                  |       |                          |
|      | Murrum bedding                                                                                 |         |         |         |       |       |       | 0.00               |                  |       |                          |
|      | <b>Total (B)</b>                                                                               |         |         |         |       |       |       | 1.36               |                  |       |                          |
|      | <b>Net Qty = A - B</b>                                                                         |         |         |         |       |       |       | 2.06               |                  | 0.00  | 2.06                     |
|      | SL0 2                                                                                          |         |         |         |       |       |       |                    |                  |       |                          |
|      | CH10.90                                                                                        | 575.260 | 574.420 | 574.170 |       |       | 1.090 |                    |                  |       |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc          |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1       |         |         | 0.785 | 4.000 | 0.990 | 3.109              |                  | 3.109 | 6.217                    |
|      | 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 | 0.100 | 0.314              |                  | 0.314 | 0.628                    |
|      | Item No. : 11 Transportation of earth Transportation charges                                   |         |         |         |       |       |       | 1.365              |                  | 1.365 | 2.730                    |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |         |         |         |       |       |       |                    |                  |       |                          |
|      | <b>Total Excavation(A)=</b>                                                                    |         |         |         |       |       |       | 3.423              |                  |       |                          |
|      | <b>Deduction</b>                                                                               |         |         |         |       |       |       |                    |                  |       |                          |
|      | Brick work                                                                                     | 1.00    |         | 0.785   | 1.160 | 1.160 | 0.840 | 0.89               |                  |       |                          |
|      | soling                                                                                         |         |         |         |       |       |       | 0.00               |                  |       |                          |
|      | PCC                                                                                            | 1.00    |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                  |       |                          |
|      | Murrum bedding                                                                                 |         |         |         |       |       |       | 0.00               |                  |       |                          |
|      | <b>Total (B)</b>                                                                               |         |         |         |       |       |       | 1.36               |                  |       |                          |
|      | <b>Net Qty = A - B</b>                                                                         |         |         |         |       |       |       | 2.06               |                  | 2.06  | 4.12                     |



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(From No.52)

## Measurement Book

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Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

| Date | Particulars of work                                                                   | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |        | Total Upto Date Quantity |
|------|---------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|------------------|--------|--------------------------|
|      |                                                                                       | GL      | No IL   | EX.L    | L     | B     | D     |                    | Page             | Qty.   |                          |
|      | SL0 3                                                                                 |         |         |         |       |       |       |                    |                  |        |                          |
|      | CH19.20                                                                               | 575.535 | 574.570 | 574.320 |       |       | 1.215 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1       |         |         | 0.785 | 4.000 | 1.115 | 3.501              |                  | 6.217  | 9.718                    |
|      | 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 | 0.100 | 0.314              |                  | 0.628  | 0.942                    |
|      | Item No. : 11 Transportation of earth Transportation charges                          |         |         |         |       |       |       | 1.497              |                  | 2.730  | 4.227                    |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |         |         |         |       |       |       |                    |                  |        |                          |
|      | Total Excavation(A)=                                                                  |         |         |         |       |       |       | 3.815              |                  |        |                          |
|      | Deduction                                                                             |         |         |         |       |       |       |                    |                  |        |                          |
|      | Brick work                                                                            | 1.00    |         | 0.785   | 1.160 | 1.160 | 0.965 | 1.02               |                  |        |                          |
|      | soling                                                                                |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | PCC                                                                                   | 1.00    |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                  |        |                          |
|      | Murrum bedding                                                                        |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | Total (B)                                                                             |         |         |         |       |       |       | 1.50               |                  |        |                          |
|      | Net Qty = A - B                                                                       |         |         |         |       |       |       | 2.32               |                  | 4.12   | 6.43                     |
|      | SL0 4                                                                                 |         |         |         |       |       |       |                    |                  |        |                          |
|      | CH36.70                                                                               | 576.060 | 575.000 | 574.750 |       |       | 1.310 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1       |         |         | 0.785 | 4.000 | 1.210 | 3.799              |                  | 9.718  | 13.518                   |
|      | 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 | 0.100 | 0.314              |                  | 0.942  | 1.256                    |
|      | Item No. : 11 Transportation of earth Transportation charges                          |         |         |         |       |       |       | 1.597              |                  | 4.227  | 5.824                    |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |         |         |         |       |       |       |                    |                  |        |                          |
|      | Total Excavation(A)=                                                                  |         |         |         |       |       |       | 4.113              |                  |        |                          |
|      | Deduction                                                                             |         |         |         |       |       |       |                    |                  |        |                          |
|      | Brick work                                                                            | 1.00    |         | 0.785   | 1.160 | 1.160 | 1.060 | 1.12               |                  |        |                          |
|      | soling                                                                                |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | PCC                                                                                   | 1.00    |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                  |        |                          |
|      | Murrum bedding                                                                        |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | Total (B)                                                                             |         |         |         |       |       |       | 1.60               |                  |        |                          |
|      | Net Qty = A - B                                                                       |         |         |         |       |       |       | 2.52               |                  | 6.43   | 8.95                     |
|      | SL0 5                                                                                 |         |         |         |       |       |       |                    |                  |        |                          |
|      | CH43.05                                                                               | 576.060 | 575.070 | 574.820 |       |       | 1.240 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1       |         |         | 0.785 | 4.000 | 1.140 | 3.580              |                  | 13.518 | 17.097                   |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.      |         |         |         |       |       |       |                    |                  |        |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

| Date | Particulars of work                                                                  | DETAILS         |         |         |       |       |       | Content of arrears | Last measurment |        | Total Upto Date Quantity |
|------|--------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|-------|--------------------|-----------------|--------|--------------------------|
|      |                                                                                      | No              |         |         | L     | B     | D     |                    | Page            | Qty.   |                          |
|      |                                                                                      | GL              | IL      | EX.L    |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                               | 1               |         |         | 0.785 | 4.000 | 0.100 | 0.314              |                 | 1.256  | 1.570                    |
|      | Item No. : 11 Transportation of earth Transportation charges                         |                 |         |         |       |       |       | 1.523              |                 | 5.824  | 7.347                    |
|      | Item No. 30 :- Refilling the excavated trenches ...                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 3.894              |                 |        |                          |
|      | Deduction                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                           | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.990 | 1.05               |                 |        |                          |
|      | soling                                                                               |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 1.52               |                 |        |                          |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       | 2.37               |                 | 8.95   | 11.32                    |
|      | SL0 6                                                                                |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH50.55                                                                              | 576.260         | 575.445 | 575.195 |       |       | 1.065 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                               | 1               |         |         | 0.785 | 4.000 | 1.065 | 3.344              |                 | 17.097 | 20.441                   |
|      | Item No. : 11 Transportation of earth Transportation charges                         |                 |         |         |       |       |       | 1.338              |                 | 7.347  | 8.686                    |
|      | Item No. 30 :- Refilling the excavated trenches ...                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 3.344              |                 |        |                          |
|      | Deduction                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                           | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.815 | 0.86               |                 |        |                          |
|      | soling                                                                               |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 1.34               |                 |        |                          |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       | 2.01               |                 | 11.32  | 13.33                    |
|      | SL0 7                                                                                |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH56.85                                                                              | 576.280         | 575.520 | 575.270 |       |       | 1.010 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                               | 1               |         |         | 0.785 | 4.000 | 1.010 | 3.171              |                 | 20.441 | 23.613                   |
|      | Item No. : 11 Transportation of earth Transportation charges                         |                 |         |         |       |       |       | 1.280              |                 | 8.686  | 9.966                    |
|      | Item No. 30 :- Refilling the excavated trenches ...                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 3.171              |                 |        |                          |
|      | Deduction                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                           | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.760 | 0.80               |                 |        |                          |
|      | soling                                                                               |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 1.28               |                 |        |                          |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       | 1.89               |                 | 18.33  | 16.22                    |
|      | SL0 8                                                                                |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH69.15                                                                              | 576.490         | 575.720 | 575.470 |       |       | 1.020 |                    |                 |        |                          |





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

| Date | Particulars of work                                                                   | DETAILS         |         |         |       |       |       | Content<br>of<br>arrears | Last<br>measurment |        | Total Upto<br>Date<br>Quantity |
|------|---------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|-------|--------------------------|--------------------|--------|--------------------------------|
|      |                                                                                       | No              |         |         | L     | B     | D     |                          | Page               | Qty.   |                                |
|      |                                                                                       | GL              | IL      | EX.L    |       |       |       |                          |                    |        |                                |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                          |                    |        |                                |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 1.020 | 3.203                    |                    | 23.613 | 26.816                         |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.291                    |                    | 9.966  | 11.257                         |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                          |                    |        |                                |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       | 3.203                    |                    |        |                                |
|      | Deduction                                                                             |                 |         |         |       |       |       |                          |                    |        |                                |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.770 | 0.81                     |                    |        |                                |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00                     |                    |        |                                |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48                     |                    |        |                                |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00                     |                    |        |                                |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.29                     |                    |        |                                |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.91                     |                    | 15.22  | 17.13                          |
|      | SL0 9                                                                                 |                 |         |         |       |       |       |                          |                    |        |                                |
|      | CH75.75                                                                               | 576.510         | 575.800 | 575.550 |       |       | 0.960 |                          |                    |        |                                |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                          |                    |        |                                |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 0.960 | 3.014                    |                    | 26.816 | 29.830                         |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.228                    |                    | 11.257 | 12.485                         |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                          |                    |        |                                |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       | 3.014                    |                    |        |                                |
|      | Deduction                                                                             |                 |         |         |       |       |       |                          |                    |        |                                |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.710 | 0.75                     |                    |        |                                |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00                     |                    |        |                                |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48                     |                    |        |                                |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00                     |                    |        |                                |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.23                     |                    |        |                                |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.79                     |                    | 17.13  | 18.92                          |
|      | SL 10                                                                                 |                 |         |         |       |       |       |                          |                    |        |                                |
|      | CH80.85                                                                               | 576.540         | 575.860 | 575.610 |       |       | 0.930 |                          |                    |        |                                |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                          |                    |        |                                |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 0.930 | 2.920                    |                    | 29.830 | 32.750                         |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.196                    |                    | 12.485 | 13.681                         |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                          |                    |        |                                |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       | 2.920                    |                    |        |                                |
|      | Deduction                                                                             |                 |         |         |       |       |       |                          |                    |        |                                |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.680 | 0.72                     |                    |        |                                |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00                     |                    |        |                                |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48                     |                    |        |                                |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00                     |                    |        |                                |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.20                     |                    |        |                                |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.72                     |                    | 18.92  | 20.64                          |



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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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| Date | Particulars of work                                                                   | DETAILS         |         |         |       |       |       | Content of arrears | Last measurment |        | Total Upto Date Quantity |
|------|---------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|-------|--------------------|-----------------|--------|--------------------------|
|      |                                                                                       | No              |         |         | L     | B     | D     |                    | Page            | Qty.   |                          |
|      |                                                                                       | GL              | IL      | EX.L    |       |       |       |                    |                 |        |                          |
|      | SL 11                                                                                 |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH89.95                                                                               | 576.930         | 576.140 | 575.890 |       |       | 1.040 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 1.040 | 3.266              |                 | 32.750 | 36.016                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.312              |                 | 13.681 | 14.993                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       | 3.266              |                 |        |                          |
|      | Deduction                                                                             |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.790 | 0.83               |                 |        |                          |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.31               |                 |        |                          |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.95               |                 | 20.64  | 22.89                    |
|      | SL 12                                                                                 |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH97.45                                                                               | 576.790         | 576.160 | 575.910 |       |       | 0.880 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 0.880 | 2.763              |                 | 36.016 | 38.779                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.143              |                 | 14.993 | 16.136                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       | 2.763              |                 |        |                          |
|      | Deduction                                                                             |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.630 | 0.67               |                 |        |                          |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.14               |                 |        |                          |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.62               |                 | 22.59  | 24.21                    |
|      | SL 13                                                                                 |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH109.15                                                                              | 576.810         | 576.260 | 576.010 |       |       | 0.800 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 0.800 | 2.512              |                 | 38.779 | 41.291                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.059              |                 | 16.136 | 17.194                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Deduction                                                                             |                 |         |         |       |       |       | 2.512              |                 |        |                          |
|      | Brick work                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | soling                                                                                | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.550 | 0.58               |                 |        |                          |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.00               |                 |        |                          |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

| Date | Particulars of work                                                                   | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |        | Total Upto Date Quantity |
|------|---------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|------------------|--------|--------------------------|
|      |                                                                                       | GL      | No IL   | EX.L    | L     | B     | D     |                    | Page             | Qty.   |                          |
|      | <b>Total (B)</b>                                                                      |         |         |         |       |       |       | 1.06               |                  |        |                          |
|      |                                                                                       |         |         |         |       |       |       | 1.45               |                  | 24.21  | 25.67                    |
|      | <b>SL 5.1</b>                                                                         |         |         |         |       |       |       |                    |                  |        |                          |
|      | <b>CH12.65</b>                                                                        | 576.245 | 575.435 | 575.185 |       |       | 1.060 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1       |         |         | 0.785 | 4.000 | 1.060 | 3.328              |                  | 41.291 | 44.619                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |         |         |         |       |       |       | 1.333              |                  | 17.194 | 18.527                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |         |         |         |       |       |       |                    |                  |        |                          |
|      | <b>Total Excavation(A)=</b>                                                           |         |         |         |       |       |       | 3.328              |                  |        |                          |
|      | <b>Deduction</b>                                                                      |         |         |         |       |       |       |                    |                  |        |                          |
|      | Brick work                                                                            | 1.00    |         | 0.785   | 1.160 | 1.160 | 0.810 | 0.86               |                  |        |                          |
|      | soling                                                                                |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | PCC                                                                                   | 1.00    |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                  |        |                          |
|      | Murrum bedding                                                                        |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | <b>Total (B)</b>                                                                      |         |         |         |       |       |       | 1.33               |                  |        |                          |
|      |                                                                                       |         |         |         |       |       |       | 2.00               |                  | 25.67  | 27.67                    |
|      | <b>SL 5.3</b>                                                                         |         |         |         |       |       |       |                    |                  |        |                          |
|      | <b>CH17.55</b>                                                                        | 576.350 | 575.500 | 575.250 |       |       | 1.100 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1       |         |         | 0.785 | 4.000 | 1.100 | 3.454              |                  | 44.619 | 48.073                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |         |         |         |       |       |       | 1.375              |                  | 18.527 | 19.903                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |         |         |         |       |       |       |                    |                  |        |                          |
|      | <b>Total Excavation(A)=</b>                                                           |         |         |         |       |       |       | 3.454              |                  |        |                          |
|      | <b>Deduction</b>                                                                      |         |         |         |       |       |       |                    |                  |        |                          |
|      | Brick work                                                                            | 1.00    |         | 0.785   | 1.160 | 1.160 | 0.850 | 0.90               |                  |        |                          |
|      | soling                                                                                |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | PCC                                                                                   | 1.00    |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                  |        |                          |
|      | Murrum bedding                                                                        |         |         |         |       |       |       | 0.00               |                  |        |                          |
|      | <b>Total (B)</b>                                                                      |         |         |         |       |       |       | 1.38               |                  |        |                          |
|      |                                                                                       |         |         |         |       |       |       | 2.08               |                  | 27.66  | 29.74                    |
|      | <b>SL 5.4</b>                                                                         |         |         |         |       |       |       |                    |                  |        |                          |
|      | <b>CH25.05</b>                                                                        | 576.440 | 575.600 | 575.350 |       |       | 1.090 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1       |         |         | 0.785 | 4.000 | 1.090 | 3.423              |                  | 48.073 | 51.496                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |         |         |         |       |       |       | 1.365              |                  | 19.903 | 21.268                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |         |         |         |       |       |       |                    |                  |        |                          |
|      | <b>Total Excavation(A)=</b>                                                           |         |         |         |       |       |       | 3.423              |                  |        |                          |
|      | <b>Deduction</b>                                                                      |         |         |         |       |       |       |                    |                  |        |                          |
|      | Brick work                                                                            | 1.00    |         | 0.785   | 1.160 | 1.160 | 0.840 | 0.89               |                  |        |                          |
|      | soling                                                                                |         |         |         |       |       |       | 0.00               |                  |        |                          |



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(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. :- 163

Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

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| Date | Particulars of work                                                                  | DETAILS         |         |         |       |       |       | Content of arrears | Last measurment |        | Total Upto Date Quantity |
|------|--------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|-------|--------------------|-----------------|--------|--------------------------|
|      |                                                                                      | No              |         |         | L     | B     | D     |                    | Page            | Qty.   |                          |
|      |                                                                                      | GL              | IL      | EX.L    |       |       |       |                    |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 2.06               |                 | 29.74  | 31.80                    |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       |                    |                 |        |                          |
|      | SL 5.5                                                                               |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH35.05                                                                              | 576.380         | 575.740 | 575.490 |       |       | 0.890 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                               | 1               |         |         | 0.785 | 4.000 | 0.890 | 2.795              |                 | 51.496 | 54.291                   |
|      | Item No. : 11 Transportation of earth Transportation charges                         |                 |         |         |       |       |       | 1.154              |                 | 21.268 | 22.421                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 2.795              |                 |        |                          |
|      | Deduction                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                           | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.640 | 0.68               |                 |        |                          |
|      | soling                                                                               |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 1.15               |                 |        |                          |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       |                    |                 | 31.80  | 33.44                    |
|      | SL5.5.2                                                                              |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH45.00                                                                              | 576.585         | 575.845 | 575.595 |       |       | 0.990 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                               | 1               |         |         | 0.785 | 4.000 | 0.990 | 3.109              |                 | 54.291 | 57.399                   |
|      | Item No. : 11 Transportation of earth Transportation charges                         |                 |         |         |       |       |       | 1.259              |                 | 22.421 | 23.681                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 3.109              |                 |        |                          |
|      | Deduction                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                           | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.740 | 0.78               |                 |        |                          |
|      | soling                                                                               |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 1.26               |                 |        |                          |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       |                    |                 | 33.44  | 35.29                    |
|      | SL5.5.3                                                                              |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH54.75                                                                              | 576.635         | 575.955 | 575.705 |       |       | 0.930 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                               | 1               |         |         | 0.785 | 4.000 | 0.930 | 2.920              |                 | 57.399 | 60.319                   |
|      | Item No. : 11 Transportation of earth Transportation charges                         |                 |         |         |       |       |       | 1.196              |                 | 23.681 | 24.876                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 2.920              |                 |        |                          |
|      | 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 TRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

| Date | Particulars of work                                                                   | DETAILS         |         |         |       |       |       | Content of arrears | Last measurment |        | Total Upto Date Quantity |
|------|---------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|-------|--------------------|-----------------|--------|--------------------------|
|      |                                                                                       | No              |         |         | L     | B     | D     |                    | Page            | Qty.   |                          |
|      |                                                                                       | GL              | IL      | EX.L    |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.680 | 0.72               |                 |        |                          |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.20               |                 |        |                          |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.72               |                 | 35.29  | 37.01                    |
|      | SL5.5.1                                                                               |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH5.95                                                                                | 576.535         | 576.005 | 575.755 |       |       | 0.780 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 0.780 | 2.449              |                 | 60.319 | 62.769                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.037              |                 | 24.876 | 25.914                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       | 2.449              |                 |        |                          |
|      | Deduction                                                                             |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.530 | 0.56               |                 |        |                          |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.04               |                 |        |                          |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.41               |                 | 37.01  | 38.42                    |
|      | SL5.2                                                                                 |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH5.95                                                                                | 576.415         | 575.690 | 575.440 |       |       | 0.975 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 0.975 | 3.061              |                 | 62.769 | 65.830                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.243              |                 | 25.914 | 27.157                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                  |                 |         |         |       |       |       | 3.061              |                 |        |                          |
|      | Deduction                                                                             |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                            | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.725 | 0.77               |                 |        |                          |
|      | soling                                                                                |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                   | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murrum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                             |                 |         |         |       |       |       | 1.24               |                 |        |                          |
|      |                                                                                       | Net Qty = A - B |         |         |       |       |       | 1.82               |                 | 38.42  | 40.24                    |
|      | SL03.1                                                                                |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH9.65                                                                                | 576.030         | 575.135 | 574.885 |       |       | 1.145 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                | 1               |         |         | 0.785 | 4.000 | 1.145 | 3.595              |                 | 65.830 | 69.425                   |
|      | Item No. : 11 Transportation of earth Transportation charges                          |                 |         |         |       |       |       | 1.423              |                 | 27.157 | 28.580                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                   |                 |         |         |       |       |       |                    |                 |        |                          |



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 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 Venture)

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

|  | Details | Last Measurement |
|--|---------|------------------|
|--|---------|------------------|

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Silekhana-03-200mm DWC - Silekhana-03-200mm DWC

| Date | Particulars of work                                                                  | DETAILS         |         |         |       |       |       | Content of arrears | Last measurment |        | Total Upto Date Quantity |
|------|--------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|-------|--------------------|-----------------|--------|--------------------------|
|      |                                                                                      | No              |         |         | L     | B     | D     |                    | Page            | Qty.   |                          |
|      |                                                                                      | GL              | IL      | EX.L    |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 3.595              |                 |        |                          |
|      | Deduction                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                           | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.895 | 0.95               |                 |        |                          |
|      | soling                                                                               |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 1.42               |                 |        |                          |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       | 2.17               |                 | 40.24  | 42.42                    |
|      | SL03.2                                                                               |                 |         |         |       |       |       |                    |                 |        |                          |
|      | CH20.55                                                                              | 576.560         | 575.720 | 575.470 |       |       | 1.090 |                    |                 |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc |                 |         |         |       |       |       |                    |                 |        |                          |
|      | (a) For Lift 0 to 1.5m                                                               | 1               |         |         | 0.785 | 4.000 | 1.090 | 3.423              |                 | 69.425 | 72.848                   |
|      | 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              |                 | 1.570  | 1.570                    |
|      | Item No. : 11 Transportation of earth Transportation charges                         |                 |         |         |       |       |       | 1.365              |                 | 28.580 | 29.945                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                  |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Total Excavation(A)=                                                                 |                 |         |         |       |       |       | 3.423              |                 |        |                          |
|      | Deduction                                                                            |                 |         |         |       |       |       |                    |                 |        |                          |
|      | Brick work                                                                           | 1.00            |         | 0.785   | 1.160 | 1.160 | 0.840 | 0.89               |                 |        |                          |
|      | soling                                                                               |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | PCC                                                                                  | 1.00            |         | 0.785   | 1.560 | 1.560 | 0.250 | 0.48               |                 |        |                          |
|      | Murum bedding                                                                        |                 |         |         |       |       |       | 0.00               |                 |        |                          |
|      | Total (B)                                                                            |                 |         |         |       |       |       | 1.36               |                 |        |                          |
|      |                                                                                      | Net Qty = A - B |         |         |       |       |       | 2.06               |                 | 42.42  | 44.48                    |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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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

| Details |  |  |  | Last Measurement |
|---------|--|--|--|------------------|
|         |  |  |  |                  |

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Silekhana-03-200mm DWC - CEMBER

### 14th R A BILL CEMBER DETAILS SILEKHANA-03

| SR NO | CHEMBER NUMBER                                                                                                    | DETAILS |         |       | Rebate up to<br>Depth of 1.5 mtr |         | Total<br>Rebate<br>Qty for<br>30 cm |
|-------|-------------------------------------------------------------------------------------------------------------------|---------|---------|-------|----------------------------------|---------|-------------------------------------|
|       |                                                                                                                   | No      |         |       | For per 30 cm                    |         |                                     |
|       |                                                                                                                   | GL      | IL      | DEPTH |                                  |         |                                     |
| A     | Extra Item No. :2 Providing and constructing on sewer.BBM manhole 0.9 m dia up to a depth of 1.5 M etc., complete |         |         |       |                                  |         |                                     |
| 1     | SL0 1                                                                                                             | 575.200 | 574.360 | 0.840 | 1.5                              | -0.660  | -55.167                             |
| 2     | SL0 2                                                                                                             | 575.260 | 574.420 | 0.840 | 1.5                              | -0.660  |                                     |
| 3     | SL0 3                                                                                                             | 575.535 | 574.570 | 0.965 | 1.5                              | -0.535  |                                     |
| 4     | SL0 4                                                                                                             | 576.060 | 575.000 | 1.060 | 1.5                              | -0.440  |                                     |
| 5     | SL0 5                                                                                                             | 576.060 | 575.070 | 0.990 | 1.5                              | -0.510  |                                     |
| 6     | SL0 6                                                                                                             | 576.260 | 575.445 | 0.815 | 1.5                              | -0.685  |                                     |
| 7     | SL0 7                                                                                                             | 576.280 | 575.520 | 0.760 | 1.5                              | -0.740  |                                     |
| 8     | SL0 8                                                                                                             | 576.490 | 575.720 | 0.770 | 1.5                              | -0.730  |                                     |
| 9     | SL0 9                                                                                                             | 576.510 | 575.800 | 0.710 | 1.5                              | -0.790  |                                     |
| 10    | SL0 10                                                                                                            | 576.540 | 575.860 | 0.680 | 1.5                              | -0.820  |                                     |
| 11    | SL 11                                                                                                             | 576.930 | 576.140 | 0.790 | 1.5                              | -0.710  |                                     |
| 12    | SL 12                                                                                                             | 576.790 | 576.160 | 0.630 | 1.5                              | -0.870  |                                     |
| 13    | SL 13                                                                                                             | 576.810 | 576.260 | 0.550 | 1.5                              | -0.950  |                                     |
| 14    | SL 5.1                                                                                                            | 576.245 | 575.435 | 0.810 | 1.5                              | -0.690  |                                     |
| 15    | SL 5.3                                                                                                            | 576.350 | 575.500 | 0.850 | 1.5                              | -0.650  |                                     |
| 16    | SL 5.4                                                                                                            | 576.440 | 575.600 | 0.840 | 1.5                              | -0.660  |                                     |
| 17    | SL 5.5                                                                                                            | 576.380 | 575.740 | 0.640 | 1.5                              | -0.860  |                                     |
| 18    | SL5.5.2                                                                                                           | 576.585 | 575.845 | 0.740 | 1.5                              | -0.760  |                                     |
| 19    | SL5.5.3                                                                                                           | 576.635 | 575.955 | 0.680 | 1.5                              | -0.820  |                                     |
| 20    | SL5.5.1                                                                                                           | 576.535 | 576.005 | 0.530 | 1.5                              | -0.970  |                                     |
| 21    | SL5.2                                                                                                             | 576.415 | 575.690 | 0.725 | 1.5                              | -0.775  |                                     |
| 22    | SL03.1                                                                                                            | 576.030 | 575.135 | 0.895 | 1.5                              | -0.605  |                                     |
| 23    | SL03.2                                                                                                            | 576.560 | 575.720 | 0.840 | 1.5                              | -0.660  |                                     |
|       | Total                                                                                                             |         |         |       |                                  | -16.550 | -55.167                             |



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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  
 (i) For Zone I to VI construction, Erection, Testing and Commissioning of Sewerage Treatment Plant, Sewerage pump station, at Nakshatrawadi (Kanchanwadi), Hanawadi, Siddharth Garden, Zafra Park, Chaudhary Vihar, Construction, Erection, Testing and Commissioning of Sewerage pump station at Hanawadi, Siddharth Garden, Padegaon, Gohad, Zafra, Ward No. 48 and 49 (V & VI) Providing, lowering, laying, jointing and erecting, laying main 1000 mm dia. & 1200 mm dia. SPS to Nakshatrawadi (Kanchanwadi) SPS and Ward No. 48 to 49 SPS, Aurangabad City.

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

**Authority No.** AMC Ward B&C UIDSMT 2014-184 Date 01/07/2014

Date  
 Men  
 over

Total up to  
 Date

10

Silekhana-03-200mm DWC - Quantity Abstract.

| QUANTITY ABSTRACT |             |       |         |        |        |         |         |         |         |         |              |                |
|-------------------|-------------|-------|---------|--------|--------|---------|---------|---------|---------|---------|--------------|----------------|
| SILEKHANA-03      |             |       |         |        |        |         |         |         |         |         |              |                |
| SR NO             | Description | MB/PG | ITEM 1  | ITEM 4 | ITEM 7 | ITEM 11 | ITEM 12 | ITEM 13 | ITEM 30 | ITEM 35 | Extra Item 2 | Extra Item 2.a |
|                   |             |       | 0-1.5   | 0-1.5  |        | 200mm   | 200mm   | 200mm   |         |         | 0-1.5 m      | Rebate         |
| 1                 | For Pipe    |       | 94.585  | 2.454  | 11.589 | 16.787  | 176.550 | 176.550 | 80.051  | 0.163   |              |                |
| 2                 | For Manhole |       | 72.844  | 1.570  |        | 29.945  |         |         | 44.473  |         | 23.00        | -55.17         |
|                   | Total       |       | 167.429 | 4.024  | 11.589 | 46.732  | 176.550 | 176.550 | 124.524 | 0.163   | 23.00        | -55.17         |

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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. :- 173  
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

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Sillekhana-04 - Pipe Measurement

### 11th RA BILL MEASUREMENTS SW PIPE SILLEKHANA - 04

| Date | Particulars of work                                                                                    | DETAILS               |         |         |       |              |       | Content of arrears | Last measurment |       | Total Upto Date Quantity |
|------|--------------------------------------------------------------------------------------------------------|-----------------------|---------|---------|-------|--------------|-------|--------------------|-----------------|-------|--------------------------|
|      |                                                                                                        | GL                    | No IL   | EX.L    | L     | B            | D     |                    | Page            | Qty.  |                          |
|      | <b>SW PIPE - 200 mm Dia</b>                                                                            |                       |         |         |       |              |       |                    |                 |       |                          |
|      | <b>200 mm Dia-SILLEKHANA - 04 (Width of Trench -0.200+0.02+0.02+0.5=0.740m)</b>                        |                       |         |         |       |              |       |                    |                 |       |                          |
|      | For Width of Trench Calculation                                                                        | For Depth             |         |         |       | 0.0m to 1.5m |       | 0.0m to 3.0m       |                 |       |                          |
|      | Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.                            | For Lift 0.0m to 1.5m |         |         |       | 0.740        |       | 1.140              |                 |       |                          |
|      |                                                                                                        | For Lift 1.5m to 3.0m |         |         |       |              |       | 0.740              |                 |       |                          |
|      | <b>Old MH to SK 01</b>                                                                                 |                       |         |         |       |              |       |                    |                 |       |                          |
|      | <b>CH0.00</b>                                                                                          | 575.200               | 574.355 | 574.255 |       |              | 0.945 | 1.005              |                 |       |                          |
|      | <b>CH9.70</b>                                                                                          | 575.535               | 574.570 | 574.470 |       |              | 1.065 |                    |                 |       |                          |
|      | <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                     |         |         | 8.000 | 0.740        | 0.755 | 4.470              |                 | 0.000 | 4.470                    |
|      | <b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.              |                       |         |         |       |              |       |                    |                 |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                                 | 1                     |         |         | 8.000 | 0.740        | 0.150 | 0.888              |                 | 0.000 | 0.888                    |
|      | <b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.                |                       |         |         |       |              |       |                    |                 |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                                 | 1                     |         |         | 8.000 | 0.740        | 0.100 | 0.592              |                 | 0.000 | 0.592                    |
|      | <b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1                     |         |         | 8.300 | 0.740        | 0.100 | 0.614              |                 | 0.000 | 0.614                    |
|      | <b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading      |                       |         |         |       |              |       | 0.930              |                 | 0.000 | 0.930                    |
|      | <b>Extra Item 9.2 (c) :-</b> Lowering & Laying of Polyethylene SW pipe of 200mm Dia                    | 1                     |         |         | 8.800 |              |       | 8.800              |                 | 0.000 | 8.800                    |
|      | <b>Item No. 30 :-</b> Refilling the excavated trenches ...                                             |                       |         |         |       |              |       |                    |                 |       |                          |
|      | <b>Total Excavation=</b>                                                                               |                       |         |         |       |              |       | 5.950              |                 |       |                          |
|      | <b>Deduction</b>                                                                                       |                       |         |         |       |              |       |                    |                 |       |                          |
|      | pipe area                                                                                              | 1                     |         | 0.785   | 8.300 | 0.220        | 0.220 | 0.315              |                 |       |                          |
|      | soling                                                                                                 |                       |         |         |       |              |       | 0.000              |                 |       |                          |
|      | PCC                                                                                                    |                       |         |         |       |              |       | 0.000              |                 |       |                          |
|      | Murrum bedding                                                                                         |                       |         |         |       |              |       | 0.614              |                 |       |                          |
|      |                                                                                                        |                       |         |         |       |              |       | 0.930              |                 |       |                          |
|      | <b>Net Qty = A - B</b>                                                                                 |                       |         |         |       |              |       | 5.020              |                 | 0.000 | 5.020                    |
|      | <b>SK 01 to SK 02</b>                                                                                  |                       |         |         |       |              |       |                    |                 |       |                          |
|      | <b>CH9.70</b>                                                                                          | 575.535               | 574.570 | 574.470 |       |              | 1.065 | 1.063              |                 |       |                          |
|      | <b>CH19.05</b>                                                                                         | 575.865               | 574.905 | 574.805 |       |              | 1.060 |                    |                 |       |                          |



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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 R.P.D.I pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to IP for Aurangabad City.

Book No. :-

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Sillekhana-04 - Pipe Measurement

| Date | Particulars of work                                                                             | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |       | Total Upto Date Quantity |
|------|-------------------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|------------------|-------|--------------------------|
|      |                                                                                                 | No      |         |         | L     | B     | D     |                    | Page             | Qty.  |                          |
|      |                                                                                                 | GL      | IL      | EX.L    |       |       |       |                    |                  |       |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 7.350 | 0.740 | 0.813 | 4.422              |                  | 4.470 | 8.892                    |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 7.350 | 0.740 | 0.150 | 0.816              |                  | 0.888 | 1.704                    |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 7.350 | 0.740 | 0.100 | 0.544              |                  | 0.592 | 1.136                    |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 7.950 | 0.740 | 0.100 | 0.588              |                  | 0.614 | 1.203                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |       |       |       | 0.890              |                  | 0.930 | 1.820                    |
|      | Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia                     | 1       |         |         | 8.450 |       |       | 8.450              |                  | 8.800 | 17.250                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                             |         |         |         |       |       |       |                    |                  |       |                          |
|      | Total Excavation=                                                                               |         |         |         |       |       |       | 5.782              |                  |       |                          |
|      | Deduction                                                                                       |         |         |         |       |       |       |                    |                  |       |                          |
|      | pipe area                                                                                       | 1       |         | 0.785   | 7.950 | 0.220 | 0.220 | 0.302              |                  |       |                          |
|      | soling                                                                                          |         |         |         |       |       |       | 0.000              |                  |       |                          |
|      | PCC                                                                                             |         |         |         |       |       |       | 0.000              |                  |       |                          |
|      | Murrum bedding                                                                                  |         |         |         |       |       |       | 0.588              |                  |       |                          |
|      |                                                                                                 |         |         |         |       |       |       | 0.890              |                  |       |                          |
|      |                                                                                                 |         |         |         |       |       |       | 4.891              |                  | 5.020 | 9.911                    |
|      | SK 02 to SK 03                                                                                  |         |         |         |       |       |       |                    |                  |       |                          |
|      | CH19.05                                                                                         | 575.865 | 574.905 | 574.805 |       |       | 1.060 | 1.035              |                  |       |                          |
|      | CH29.40                                                                                         | 576.235 | 575.325 | 575.225 |       |       | 1.010 |                    |                  |       |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 8.350 | 0.740 | 0.785 | 4.851              |                  | 8.892 | 13.742                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 8.350 | 0.740 | 0.150 | 0.927              |                  | 1.704 | 2.631                    |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    |                  |       |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 8.350 | 0.740 | 0.100 | 0.618              |                  | 1.136 | 1.754                    |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 8.950 | 0.740 | 0.100 | 0.662              |                  | 1.203 | 1.865                    |



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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 CIDCO (Airport) City.

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Sillekhana-04 - Pipe Measurement

| Date | Particulars of work                                                                            | DETAILS         |         |         |       |       |       | Content of arrears | Last measurement |        | Total Upto Date Quantity |
|------|------------------------------------------------------------------------------------------------|-----------------|---------|---------|-------|-------|-------|--------------------|------------------|--------|--------------------------|
|      |                                                                                                | No              |         |         | L     | B     | D     |                    | Page             | Qty.   |                          |
|      |                                                                                                | GL              | IL      | EX.L    |       |       |       |                    |                  |        |                          |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |                 |         |         |       |       |       | 1.002              |                  | 1.820  | 2.822                    |
|      | Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia                    | 1               |         |         | 9.450 |       |       | 9.450              |                  | 17.250 | 26.700                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |                 |         |         |       |       |       |                    |                  |        |                          |
|      | Total Excavation=                                                                              |                 |         |         |       |       |       | 6.395              |                  |        |                          |
|      | Deduction                                                                                      |                 |         |         |       |       |       |                    |                  |        |                          |
|      | pipe area                                                                                      | 1               |         | 0.785   | 8.950 | 0.220 | 0.220 | 0.340              |                  |        |                          |
|      | soling                                                                                         |                 |         |         |       |       |       | 0.000              |                  |        |                          |
|      | PCC                                                                                            |                 |         |         |       |       |       | 0.000              |                  |        |                          |
|      | Murum bedding                                                                                  |                 |         |         |       |       |       | 0.662              |                  |        |                          |
|      |                                                                                                |                 |         |         |       |       |       | 1.002              |                  |        |                          |
|      |                                                                                                | Net Qty = A - B |         |         |       |       |       | 5.393              |                  | 9.911  | 15.304                   |
|      | SK 03 to SK 04                                                                                 |                 |         |         |       |       |       |                    |                  |        |                          |
|      | CH29.40                                                                                        | 576.235         | 575.325 | 575.225 |       |       | 1.010 | 1.165              |                  |        |                          |
|      | CH36.95                                                                                        | 576.765         | 575.545 | 575.445 |       |       | 1.320 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |                 |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1               |         |         | 5.550 | 0.740 | 0.915 | 3.758              |                  | 13.742 | 17.500                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.              |                 |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1               |         |         | 5.550 | 0.740 | 0.150 | 0.616              |                  | 2.631  | 3.247                    |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.               |                 |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1               |         |         | 5.550 | 0.740 | 0.100 | 0.411              |                  | 1.754  | 2.165                    |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1               |         |         | 6.150 | 0.740 | 0.100 | 0.455              |                  | 1.865  | 2.320                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |                 |         |         |       |       |       | 0.689              |                  | 2.822  | 3.511                    |
|      | Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia                    | 1               |         |         | 6.650 |       |       | 6.650              |                  | 26.700 | 33.350                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |                 |         |         |       |       |       |                    |                  |        |                          |
|      | Total Excavation=                                                                              |                 |         |         |       |       |       | 4.785              |                  |        |                          |
|      | Deduction                                                                                      |                 |         |         |       |       |       |                    |                  |        |                          |
|      | pipe area                                                                                      | 1               |         | 0.785   | 6.150 | 0.220 | 0.220 | 0.234              |                  |        |                          |
|      | soling                                                                                         |                 |         |         |       |       |       | 0.000              |                  |        |                          |
|      | PCC                                                                                            |                 |         |         |       |       |       | 0.000              |                  |        |                          |
|      | Murum bedding                                                                                  |                 |         |         |       |       |       | 0.455              |                  |        |                          |
|      |                                                                                                |                 |         |         |       |       |       | 0.689              |                  |        |                          |
|      |                                                                                                | Net Qty = A - B |         |         |       |       |       | 4.096              |                  | 15.304 | 19.400                   |
|      | SK 04 to SK 05                                                                                 |                 |         |         |       |       |       |                    |                  |        |                          |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**me of work:-** Development of Underground Sewerage Collection system for Zone I to VI Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment at based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth len, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission ewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward 8 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to for Aurangabad City.

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Sillekhana-04 - Pipe Measurement

| Date | Particulars of work                                                                             | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |        | Total Upto Date Quantity |
|------|-------------------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|------------------|--------|--------------------------|
|      |                                                                                                 | GL      | No IL   | EX.L    | L     | B     | D     |                    | Page             | Qty.   |                          |
|      | CH36.95                                                                                         | 576.765 | 575.545 | 575.445 |       |       | 1.320 | 1.325              |                  |        |                          |
|      | CH44.10                                                                                         | 577.145 | 575.915 | 575.815 |       |       | 1.330 |                    |                  |        |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 5.150 | 0.740 | 0.915 | 3.487              |                  | 17.500 | 20.987                   |
|      | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.              |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 5.150 | 0.740 | 0.150 | 0.572              |                  | 3.247  | 3.818                    |
|      | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.                |         |         |         |       |       |       |                    |                  |        |                          |
|      | (a) For Lift 0 to 1.5m                                                                          | 1       |         |         | 5.150 | 0.740 | 0.100 | 0.381              |                  | 2.165  | 2.546                    |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 5.750 | 0.740 | 0.100 | 0.426              |                  | 2.320  | 2.745                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |       |       |       | 0.644              |                  | 3.511  | 4.155                    |
|      | Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia                     | 1       |         |         | 6.250 |       |       | 6.250              |                  | 33.350 | 39.600                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                             |         |         |         |       |       |       |                    |                  |        |                          |
|      | Total Excavation=                                                                               |         |         |         |       |       |       | 4.440              |                  |        |                          |
|      | Deduction                                                                                       |         |         |         |       |       |       |                    |                  |        |                          |
|      | pipe area                                                                                       | 1       |         | 0.785   | 5.750 | 0.220 | 0.220 | 0.218              |                  |        |                          |
|      | soling                                                                                          |         |         |         |       |       |       | 0.000              |                  |        |                          |
|      | PCC                                                                                             |         |         |         |       |       |       | 0.000              |                  |        |                          |
|      | Murrum bedding                                                                                  |         |         |         |       |       |       | 0.426              |                  |        |                          |
|      |                                                                                                 |         |         |         |       |       |       | 0.644              |                  |        |                          |
|      |                                                                                                 |         |         |         |       |       |       | 3.796              |                  | 19.400 | 23.196                   |
|      | SK 05 to SK 06                                                                                  |         |         |         |       |       |       |                    |                  |        |                          |
|      | CH44.10                                                                                         | 577.145 | 575.915 | 575.815 |       |       | 1.330 |                    |                  |        |                          |
|      | CH52.45                                                                                         | 577.175 | 576.145 | 576.045 |       |       | 1.130 | 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       |         |         | 6.350 | 0.740 | 1.230 | 5.780              |                  | 20.987 | 26.767                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                     | 1       |         |         | 6.950 | 0.740 | 0.100 | 0.514              |                  | 2.745  | 3.260                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading      |         |         |         |       |       |       | 0.778              |                  | 4.155  | 4.933                    |
|      | Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia                     | 1       |         |         | 7.450 |       |       | 7.450              |                  | 39.600 | 47.050                   |



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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Sillekhana-04 - Pipe Measurement

| Date | Particulars of work                                                                            | DETAILS |         |         |       |       |       | Content of arrears | Last measurement |               | Total Upto Date Quantity |
|------|------------------------------------------------------------------------------------------------|---------|---------|---------|-------|-------|-------|--------------------|------------------|---------------|--------------------------|
|      |                                                                                                | GL      | No IL   | EX.L    | L     | B     | D     |                    | Page             | Qty.          |                          |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>Total Excavation=</b>                                                                       |         |         |         |       |       |       | <b>5.780</b>       |                  |               |                          |
|      | <b>Deduction</b>                                                                               |         |         |         |       |       |       |                    |                  |               |                          |
|      | pipe area                                                                                      | 1       |         | 0.785   | 6.950 | 0.220 | 0.220 | 0.264              |                  |               |                          |
|      | soling                                                                                         |         |         |         |       |       |       | 0.000              |                  |               |                          |
|      | PCC                                                                                            |         |         |         |       |       |       | 0.000              |                  |               |                          |
|      | Murum bedding                                                                                  |         |         |         |       |       |       | 0.514              |                  |               |                          |
|      |                                                                                                |         |         |         |       |       |       | 0.778              |                  |               |                          |
|      |                                                                                                |         |         |         |       |       |       | <b>5.001</b>       |                  | <b>23.196</b> | <b>28.197</b>            |
|      | <b>Net Qty = A - B</b>                                                                         |         |         |         |       |       |       |                    |                  |               |                          |
|      | SK 06 to SK 07                                                                                 |         |         |         |       |       |       |                    |                  |               |                          |
|      | CH52.45                                                                                        | 577.175 | 576.145 | 576.045 |       |       | 1.130 | 1.110              |                  |               |                          |
|      | CH55.35                                                                                        | 577.275 | 576.285 | 576.185 |       |       | 1.090 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1       |         |         | 0.900 | 0.740 | 1.110 | 0.739              |                  | 26.767        | 27.506                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1       |         |         | 1.500 | 0.740 | 0.100 | 0.111              |                  | 3.260         | 3.371                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |         |         |         |       |       |       | 0.168              |                  | 4.933         | 5.101                    |
|      | Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia                    | 1       |         |         | 2.000 |       |       | 2.000              |                  | 47.050        | 49.050                   |
|      | Item No. 30 :- Refilling the excavated trenches ...                                            |         |         |         |       |       |       |                    |                  |               |                          |
|      | <b>Total Excavation=</b>                                                                       |         |         |         |       |       |       | <b>0.739</b>       |                  |               |                          |
|      | <b>Deduction</b>                                                                               |         |         |         |       |       |       |                    |                  |               |                          |
|      | pipe area                                                                                      | 1       |         | 0.785   | 1.500 | 0.220 | 0.220 | 0.057              |                  |               |                          |
|      | soling                                                                                         |         |         |         |       |       |       | 0.000              |                  |               |                          |
|      | PCC                                                                                            |         |         |         |       |       |       | 0.000              |                  |               |                          |
|      | Murum bedding                                                                                  |         |         |         |       |       |       | 0.111              |                  |               |                          |
|      |                                                                                                |         |         |         |       |       |       | 0.168              |                  |               |                          |
|      |                                                                                                |         |         |         |       |       |       | <b>0.571</b>       |                  | <b>28.197</b> | <b>28.769</b>            |
|      | <b>Net Qty = A - B</b>                                                                         |         |         |         |       |       |       |                    |                  |               |                          |
|      | SK 07 to SK 08                                                                                 |         |         |         |       |       |       |                    |                  |               |                          |
|      | CH55.35                                                                                        | 577.275 | 576.285 | 576.185 |       |       | 1.090 | 1.115              |                  |               |                          |
|      | CH60.85                                                                                        | 577.365 | 576.325 | 576.225 |       |       | 1.140 |                    |                  |               |                          |
|      | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. |         |         |         |       |       |       |                    |                  |               |                          |
|      | (a) For Lift 0 to 1.5m                                                                         | 1       |         |         | 3.500 | 0.740 | 1.115 | 2.888              |                  | 27.506        | 30.394                   |
|      | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)                    | 1       |         |         | 4.100 | 0.740 | 0.100 | 0.303              |                  | 3.371         | 3.674                    |
|      | Item No. : 11 Transportation of earth Transportation charges including loading & unloading     |         |         |         |       |       |       | 0.459              |                  | 5.101         | 5.561                    |



Signature