



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/ML pipe line from Gashod B CDC to Malakwadi (Kanchanwadi) CDC and W. M. No. 11.

Book No. :-
Page No. :- **152**

Page 6 of 6

Dashmesh Nagar CHAMBER Measure

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Up to Date Quantity |
|------|--|---------|---------|---------|-------|-------|-------|--------------------|------------------|---------------|---------------------------|
| | | No | | | L | B | D | | Page | Quantity | |
| | | 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 | | | 0.785 | 7.290 | 1.300 | 7.439 | | | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 7.290 | 0.390 | 2.232 | 56.006 | 63.445 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | 11.100 | 13.331 | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 7.290 | 0.150 | 0.858 | 9.707 | 10.565 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 7.290 | 0.050 | 0.286 | 0.757 | 1.043 | |
| | Item No. : 11 Transportation of earth Transportation charges | | | | | | | 2.963 | 27.472 | 30.435 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation(A)= | | | | | | | 10.816 | | | |
| | Deduction | | | | | | | | | | |
| | Brick work | 1 | | 0.785 | 1.310 | 1.310 | 1.640 | 2.209 | | | |
| | soling | | | | | | | 0.000 | | | |
| | PCC | 1 | | 0.785 | 1.960 | 1.960 | 0.250 | 0.754 | | | |
| | Murrum bedding | | | | | | | 0.000 | | | |
| | Total (B) | | | | | | | 2.963 | | | |
| | Net Qty = A - B | | | | | | | 7.853 | 63.306 | 71.158 | |
| | D14.12 | | | | | | | | | | |
| | CH182.50 | 576.914 | 575.404 | 575.154 | | | 1.760 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 1.300 | 4.082 | 63.445 | 67.527 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 4.000 | 0.260 | 0.816 | 13.331 | 14.148 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 0.150 | 0.471 | 10.565 | 11.036 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 4.000 | 0.000 | 0.000 | 13.208 | 13.208 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 0.050 | 0.157 | 1.043 | 1.200 | |
| | Item No. : 11 Transportation of earth Transportation charges | | | | | | | 2.073 | 30.435 | 32.508 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation(A)= | | | | | | | 5.526 | | | |
| | Deduction | | | | | | | | | | |
| | Brick work | 1 | | 0.785 | 1.160 | 1.160 | 1.510 | 1.595 | | | |
| | soling | | | | | | | 0.000 | | | |
| | PCC | 1 | | 0.785 | 1.560 | 1.560 | 0.250 | 0.478 | | | |
| | Murrum bedding | | | | | | | 0.000 | | | |
| | Total (B) | | | | | | | 2.073 | | | |
| | Net Qty = A - B | | | | | | | 3.454 | 71.158 | 74.613 | |



Signature
Sawing



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :-

153

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

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

Page 1 of 1

Dashmesh NagarCHAMBER

12th R A BILL MEASUREMENTS CHAMBER DETAILS

| DASHMESH NAGAR | | | | | | | | |
|----------------|---|----------|---------|---------|-------|------------------|-----------|-------|
| SR NO | CHAMBER NUMBER | CHAINAGE | DETAILS | | | Rebate up to | | Total |
| | | | No | | | Depth of 2.0 mtr | | |
| | | | GL | IL | DEPTH | For per 50 cm | for 50 cm | |
| A | Item No. : 21 Providing and constructing on sewer.BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M etc., complete | | | | | | | |
| 1 | D14.2 | CH33.60 | 575.184 | 573.074 | 2.110 | 2 | 0.110 | -1.7 |
| 2 | D14.4 | CH71.20 | 575.344 | 573.644 | 1.700 | 2 | -0.300 | |
| 3 | D14.5 | CH88.20 | 575.744 | 573.974 | 1.770 | 2 | -0.230 | |
| 4 | D14.6 | CH103.80 | 575.944 | 574.074 | 1.870 | 2 | -0.130 | |
| 5 | D14.7 | CH121.80 | 576.234 | 574.174 | 2.060 | 2 | 0.060 | |
| 6 | D14.11 | CH174.40 | 576.994 | 575.354 | 1.640 | 2 | -0.360 | |
| | Total | | | | | | -0.850 | -1.7 |
| SR NO | CHAMBER NUMBER | CHAINAGE | DETAILS | | | Rebate up to | | Total |
| | | | No | | | Depth of 1.5 mtr | | |
| | | | GL | IL | DEPTH | For per 30 cm | for 30 cm | |
| B | Extra Item No. 02 : Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete | | | | | | | |
| 1 | D14.1 | CH19.40 | 574.544 | 572.624 | 1.920 | 1.500 | 0.420 | 1.867 |
| 2 | D14.3 | CH43.10 | 575.004 | 573.334 | 1.670 | 1.500 | 0.170 | |
| 3 | D14.8 | CH135.80 | 576.344 | 574.874 | 1.470 | 1.500 | -0.030 | |
| 4 | D14.9 | CH143.40 | 576.534 | 575.004 | 1.530 | 1.500 | 0.030 | |
| 5 | D14.10 | CH158.80 | 576.664 | 575.204 | 1.460 | 1.500 | -0.040 | |
| 6 | D14.12 | CH182.50 | 576.914 | 575.404 | 1.510 | 1.500 | 0.010 | |
| | TOTAL | | | | | | 0.560 | 1.867 |



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 Nakshtravadi (Kanchanvadi), Banowadi, Siddharth Garden, Zalta, Padegaon CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banowadi, 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 SPN to Nakshtravadi (Kanchanvadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 151
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

| Date of Meas- | Particulars of Work | Details | | | | Last Measurement | | Total upto Date |
|---------------|---------------------|---------|------|--------|------|------------------|--|-----------------|
| | | Units | Rate | Amount | Page | Quan- | | |

Page 1 of 1

Dashmesh NagarBBM

11th RA BILL MEASUREMENTS OF BBM TRENCH. DASHMESH NAGAR

| Date | Particulars of work | DETAILS | | | | Content of arrears | Last measurement | | Total Upto Date Quantity |
|----------|---|---------|--------|-------|-------|--------------------|------------------|----------|--------------------------|
| | | No | L | B | D | | Page | Quantity | |
| A | otta breaking above GL.between MH -D14.1 to D14.3 | | | | | | | | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | 23.700 | 2.500 | 0.750 | 44.438 | 70.359 | 114.796 | |
| B | Wall Construction at Dasmesh nagar | | | | | | | | |
| | Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete. | | | | | | | | |
| | | 1 | 4.500 | 0.230 | 2.400 | 2.484 | 0.090 | 2.484 | |
| | Deduction Door | 1 | 0.900 | 0.230 | 2.100 | 0.435 | 0.090 | -0.435 | |
| | | | | | | | | 2.049 | |
| | Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete. | | | | | | | | |
| | (a) Wall | 1 | 4.500 | | 2.400 | 10.800 | 0.090 | 10.800 | |
| | | 1 | 0.900 | | 2.100 | 1.890 | 0.090 | -1.890 | |
| | | | | | | | | 8.910 | |
| | Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete. | | | | | | | | |
| | (a) Wall | 1 | 4.500 | | 2.400 | 10.800 | 0.090 | 10.800 | |
| | | 1 | 0.900 | | 2.100 | 1.890 | 0.090 | -1.890 | |
| | | | | | | | | 8.910 | |
| | Extra Item :5(e) - construction of ucr Masonary work 1:6CM | | | | | | | | |
| | | 1 | 4.500 | 0.350 | 0.600 | 0.945 | 0.090 | 0.945 | |



S. S. S. S.



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

Book No. :-
Page No. :- **153**

1 of 5

Balaji Nagar Nathnagar-03 - Pipe Meas.

11th RA BILL MEASUREMENTS PIPE BALAJI NAGAR NATHNAGAR-03

| Date | Particulars of work | DETAILS | | | | | Content of arrears | Last measurement | | Total Upto Date Quantity | |
|----------|---|---------|---------|---------|--------|-------|--------------------|------------------------|--------|--------------------------|----------|
| | | No | | | L | B | | D | Page | | Quantity |
| | | GL | IL | EX.L | | | | | | | |
| Part-I | SW PIPE - 250 mm Dia | | | | | | | | | | |
| | Width of Trench - For Lift 0 to 1.50m- $0.250+0.02+0.02+0.5=0.79m$ | | | | | | | | | | |
| | For Lift 1.5 to 3.00m- $0.250+0.02+0.02+0.5+0.4=1.19m$ | | | | | | | | | | |
| | For Lift 3.0 to 4.5m- $0.250+0.5+0.02+0.02+0.4+0.4=1.59m$ | | | | | | | | | | |
| 09/11/16 | BN 11 to BN 12 | | | | | | | | | | |
| | CH0.00 | 582.747 | 581.277 | 581.177 | | | 1.570 | | | | |
| | CH15.00 | 582.590 | 581.290 | 581.190 | | | 1.400 | 1.485 | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 13.000 | 0.790 | 1.175 | 12.067 | 0.000 | 12.067 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 13.000 | 0.790 | 0.210 | 2.157 | 0.000 | 2.157 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 13.000 | 0.790 | 0.100 | 1.027 | 0.000 | 1.027 | |
| | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding) | 1 | | | 13.600 | 0.790 | 0.100 | 1.074 | 0.000 | 1.074 | |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading | | | | | | | 1.853 | 0.000 | 1.853 | |
| | Extra Item 9.2 (d) :-Lowering & Laying of SW pipe of 250mm Dia | 1 | | | 14.100 | | | 14.100 | | 14.100 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation= | | | | | | | 15.251 | | | |
| | Deduction | | | | | | | | | | |
| | pipe area | 1 | | 0.785 | 13.600 | 0.270 | 0.270 | 0.778 | | | |
| | soling | | | | | | | 0.000 | | | |
| | PCC | | | | | | | 0.000 | | | |
| | Murrum bedding | | | | | | | 1.074 | | | |
| | | | | | | | | 1.853 | | | |
| | | | | | | | | Net Qty = A - B | 0.000 | 13.388 | |
| 19/11/16 | BN 12 to BN 13 | | | | | | | | | | |
| | CH15.00 | 582.590 | 581.290 | 581.190 | | | 1.400 | | | | |
| | CH23.50 | 582.415 | 581.315 | 581.215 | | | 1.200 | 1.300 | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 6.500 | 0.790 | 0.990 | 5.084 | 12.067 | 17.151 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |



J



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

Book No. :-

Page No. :- 161

1 of 2

Balaji Nagar Nathnagar-03 - Meas.Chamber

12th R A BILL MEASUREMENTS OF CHAMBERS BALAJI NAGAR NATHNAGAR-03

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|-------|-------|--------------------|------------------|----------|--------------------------|
| | | No | | | L | B | D | | Page | Quantity | |
| | | GL | IL | EX.L | | | | | | | |
| | Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m | | | | | | | | | | |
| | Bredth for chamber up to 1.5m=2 X 2=4m | | | | | | | | | | |
| | Part-I SW PIPE - 250 mm Dia | | | | | | | | | | |
| | BN 11 | | | | | | | | | | |
| | CH0.00 | 582.747 | 581.277 | 581.027 | | | 1.720 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 1.190 | 3.737 | 0.000 | 3.737 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 4.000 | 0.220 | 0.691 | 0.000 | 0.691 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 0.210 | 0.659 | 0.000 | 0.659 | |
| | 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 | | | | | | | 2.164 | 0.000 | 2.164 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation(A)= | | | | | | | 5.401 | | | |
| | Deduction | | | | | | | | | | |
| | Brick work | 1 | | 0.785 | 1.200 | 1.200 | 1.470 | 1.662 | | | |
| | soling | | | | | | | 0.000 | | | |
| | PCC | 1 | | 0.785 | 1.600 | 1.600 | 0.250 | 0.502 | | | |
| | Murrum bedding | | | | | | | 0.000 | | | |
| | Total (B) | | | | | | | 2.164 | | | |
| | Net Qty = A - B | | | | | | | 3.237 | 0.000 | 3.237 | |
| | BN 12 | | | | | | | | | | |
| | CH15.00 | 582.590 | 581.290 | 581.040 | | | 1.550 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 1.190 | 3.737 | 3.737 | 7.473 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 4.000 | 0.050 | 0.157 | 0.691 | 0.848 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 0.210 | 0.659 | 0.659 | 1.319 | |
| | 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 | | | | | | | 1.972 | 2.164 | 4.136 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation(A)= | | | | | | | 4.867 | | | |



J



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) S/P and Ward No.98 to S/P for Aurangabad City.

Book No. :-
Page No. :-

162

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

| Date of | Details | Last Measurement | Total |
|---------|---------|------------------|-------|
|---------|---------|------------------|-------|

2 of 2

Balaji Nagar Nathnagar-03 - Meas.Chamber

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Up to Date Quantity |
|------|--|------------------------|---------|---------|-------|-------|-------|--------------------|------------------|----------|---------------------------|
| | | No | | | L | B | D | | Page | Quantity | |
| | | GL | IL | EX.L | | | | | | | |
| | Deduction | | | | | | | | | | |
| | Brick work | 1 | | 0.785 | 1.200 | 1.200 | 1.300 | 1.470 | | | |
| | soling | | | | | | | 0.000 | | | |
| | PCC | 1 | | 0.785 | 1.600 | 1.600 | 0.250 | 0.502 | | | |
| | Murram bedding | | | | | | | 0.000 | | | |
| | Total (B) | | | | | | | 1.972 | | | |
| | | Net Qty = A - B | | | | | | 2.895 | 3.237 | 6.132 | |
| | BN 13 | | | | | | | | | | |
| | CH23.50 | 582.415 | 581.315 | 581.065 | | | 1.350 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 1.040 | 3.266 | 7.473 | 10.739 | |
| | (b) For Lift 1.5m to 3.0m. | 1 | | | 0.785 | 4.000 | 0.000 | 0.000 | 0.848 | 0.848 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 4.000 | 0.210 | 0.659 | 1.319 | 1.978 | |
| | 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 | 0.943 | |
| | Item No. : 11 Transportation of earth Transportation charges | | | | | | | 1.746 | 4.136 | 5.883 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation(A)= | | | | | | | 4.239 | | | |
| | Deduction | | | | | | | | | | |
| | Brick work | 1 | | 0.785 | 1.200 | 1.200 | 1.100 | 1.243 | | | |
| | soling | | | | | | | 0.000 | | | |
| | PCC | 1 | | 0.785 | 1.600 | 1.600 | 0.250 | 0.502 | | | |
| | Murram bedding | | | | | | | 0.000 | | | |
| | Total (B) | | | | | | | 1.746 | | | |
| | | Net Qty = A - B | | | | | | 2.493 | 6.132 | 8.355 | |



Signature
Secy-FD



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. **163**

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

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

| Date of | | Details | | | | Last Measurement | | Total | |
|---|--|-------------------------------|-------|-------|-------|--------------------|------------------|----------|--------------------------|
| 1 OF 1 | | Balaji Nagar Nathnagar-03 BBM | | | | | | | |
| 17th RA BILL MEASURMENTS OF BBM TRENCH BALAJI NAGAR NATHNAGAR-03 | | | | | | | | | |
| Date | Particulars of work | DETAILS | | | | Content of arrears | Last measurement | | Total Upto Date Quantity |
| | | No | L | B | D | | Page | Quantity | |
| A | Manhole No. (BN 10.13.1, BN 10.13.2 & BN 10.13.3) Only Internal, External Plaster Work | | | | | | | | |
| | Depth (1.5+1.5+1.1)/3= 1.366 | | | | | | | | |
| | Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete. | | | | | | | | |
| | (a) Long Wall | 3 | 2.920 | | 1.366 | 11.967 | | 0.000 | 11.967 |
| | | | | | | 11.967 | | 0.000 | 11.967 |
| | Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete. | | | | | | | | |
| | (a) Long Wall Internal | 3 | 2.920 | 0.000 | 1.366 | 11.967 | | 0.000 | 11.967 |
| | | | | | | 11.967 | | 0.000 | 11.967 |



Signature
Secretary



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. :- **164**
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

| Date of Measurement | Particulars of Work | Details | | | | | Last Measurement | | Total up to Date |
|---------------------|---------------------|---------|---|---|---|---------------------|------------------|----------|------------------|
| | | No. | L | B | D | Contours Arrears | Page No. | Quantity | |

1 of 1

Balaji Nagar Nathnagar-03 - Manhole Details

| 14th RA BILL MEASUREMENTS | | | | | | | | | |
|---|----------|-------|---------|---------|-------|-----------------------------|------------------|--|--|
| Branch Sewer at BALAJI NAGAR NATHNAGAR-03 | | | | | | | | | |
| Extra Item No. : 02 Providing and constructing on sewer BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M | | | | | | | | | |
| Sr.No. | Chainage | MH No | MTL | IL | Depth | Depth Difference than 1.5 m | Total Difference | Rebate/Add for Excess height (per 30 cm) | |
| 1 | CH 0.00 | BN 11 | 582.747 | 581.277 | 1.470 | -0.030 | -0.630 | -2.100 | |
| 2 | CH 15.00 | BN 12 | 582.590 | 581.290 | 1.300 | -0.200 | | | |
| 3 | CH 23.50 | BN 13 | 582.415 | 581.315 | 1.100 | -0.400 | | | |
| Total | | | | | | | | -2.100 | |



Agas
Sec. Eng



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

Book N

Page No. :- 165

Name
Aunl

Date
Meas
reme

| |
|---|
| 1 |
|---|

Balaji Nagar Nathnagar-03 Quantity Node Abstract

12th R A BILL MEASUREMENTS

Branch Sewer at BALAJI NAGAR NATHNAGAR-03

| SR NO | Description | ITEM 1 | | ITEM 2 | ITEM 4 | ITEM 7 | ITEM 11 | ITEM 30 | EIRL 2 Full Rate | EIRL 2.a Rebate | EIRL 4 | | EIRL 9.1 | | EIRL 9.2 | |
|-------|-------------|--------|---------|--------|--------|--------|---------|---------|------------------|-----------------|--------|--------|----------|--------|----------|--------|
| | | 0-1.5 | 1.5-3.0 | | | | | | | | b | d | 150mm | 250mm | 150mm | 250mm |
| 1 | For Pipe | 86.034 | 2.133 | 10.658 | -4.015 | 5.514 | 9.806 | 93.034 | | | | | 13.850 | 72.300 | 13.850 | 72.300 |
| 2 | For Manhole | 10.739 | 0.848 | 1.978 | 0.942 | | 5.882 | 8.625 | 3.000 | (2.100) | 11.967 | 11.967 | | | | |
| | Total | 96.772 | 2.981 | 12.636 | 4.957 | 5.514 | 15.688 | 101.659 | 3.000 | (2.100) | 11.967 | 11.967 | 13.850 | 72.300 | 13.850 | 72.300 |



Secretary

[Handwritten Signature]

| |
|----|
| 10 |
|----|

Date up to
Date



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

Book No. :- **163**
Page No. :-

3 of 7

Milind Nagar-03, Measurement MB

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Upto Date Quantity |
|----------|--|---------|---------|---------|-------|-------|---------------|--------------------|------------------|----------|--------------------------|
| | | GL | No IL | EX.L | L | B | D | | Page | Quantity | |
| | PCC | | | | | | | | | | |
| | Murum bedding | | | | | | 0.00 | | | | |
| | | | | | | | 2.80 | | | | |
| | | | | | | | 5.47 | | | | |
| | | | | | | | 111.62 | | | | |
| 06/10/16 | MN.04 | | | | | | | | 200.26 | 311.88 | |
| | CH124.20 | 566.050 | 563.120 | 563.020 | | | | | | | |
| | CH148.40 | 566.080 | 563.270 | 563.170 | | | 3.030 | 2.970 | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 21.0 | 1.215 | 0.800 | 20.412 | 93.839 | 114.251 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 21.0 | 1.215 | 0.600 | 15.309 | 120.594 | 135.903 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 21.0 | 0.815 | 0.900 | 15.404 | 100.870 | 116.274 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 21.0 | 1.215 | 0.100 | 2.552 | 15.317 | 17.868 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 21.0 | 0.815 | 0.570 | 9.756 | 42.081 | 51.837 | |
| | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding) | 1 | | | 22.0 | 0.815 | 0.100 | 1.793 | 9.584 | 11.377 | |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated | | | | | | | 3 507 | 18.744 | 22.251 | |
| | Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia | 1 | | | 22.70 | | | 22.700 | 119.700 | 142.400 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation= | | | | | | | 53.676 | | | |
| | Deduction of 315mm dia pipe | | | | | | | | | | |
| | pipe area | 1.00 | | 0.785 | 22.00 | 0.315 | 0.315 | 1.71 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | | | | | | | 0.00 | | | |
| | Murum bedding | | | | | | | 1.79 | | | |
| | | | | | | | | 3.51 | | | |
| | | | | | | | | 50.17 | 311.88 | 362.04 | |
| 10/10/16 | MN.05 | | | | | | | | | | |
| | CH148.40 | 566.080 | 563.270 | 563.170 | | | 2.910 | 2.535 | | | |
| | CH162.40 | 565.370 | 563.310 | 563.210 | | | 2.160 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 10.8 | 1.215 | 0.900 | 11.810 | 114.251 | 126.061 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 10.8 | 1.215 | 0.500 | 6.561 | 135.903 | 142.464 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 10.8 | 0.815 | 0.700 | 6.161 | 116.274 | 122.435 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 10.8 | 1.215 | 0.100 | 1.312 | 17.868 | 19.180 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 10.8 | 0.815 | 0.335 | 2.949 | 51.837 | 54.786 | |



J



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 (Kanehanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

Book No. :- 169
Page No. :-

4 of 7

Milind Nagar 03, Measurement MB

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Upto Date Quantity |
|----------|--|---------|---------|---------|-------|-------|-------|------------------------|------------------|---------------|--------------------------|
| | | No | | | L | B | D | | Page | Quantity | |
| | | GL | IL | EX.L | | | | | | | |
| | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding) | 1 | | | 11.8 | 0.815 | 0.100 | 0.962 | | 11.377 | 12.339 |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated | | | | | | | 1.801 | | 22.251 | 24.132 |
| | Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia | 1 | | | 12.50 | | | 12.500 | | 142.400 | 154.900 |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation= | | | | | | | 25.044 | | | |
| | Deduction of 315mm dia pipe | | | | | | | | | | |
| | pipe area | 1.00 | | 0.785 | 11.80 | 0.315 | 0.315 | 0.92 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | | | | | | | 0.00 | | | |
| | Murum bedding | | | | | | | 0.96 | | | |
| | | | | | | | | 1.88 | | | |
| | | | | | | | | Net Qty = A - B | | 362.04 | 386.01 |
| 10/10/16 | MN.06 | | | | | | | | | | |
| | CH162.40 | 565.370 | 563.460 | 563.360 | | | 2.010 | 2.135 | | | |
| | CH186.00 | 565.770 | 563.610 | 563.510 | | | 2.260 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 20.4 | 1.215 | 1.000 | 24.786 | | 126.061 | 150.847 |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 20.4 | 1.215 | 0.400 | 9.914 | | 142.464 | 152.378 |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 20.4 | 0.815 | 0.200 | 3.325 | | 122.435 | 125.760 |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 20.4 | 1.215 | 0.100 | 2.479 | | 19.180 | 21.659 |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 20.4 | 0.815 | 0.435 | 7.232 | | 54.786 | 62.018 |
| | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding) | 1 | | | 21.4 | 0.815 | 0.100 | 1.744 | | 12.339 | 14.083 |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated | | | | | | | 3.411 | | 24.132 | 27.543 |
| | Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia | 1 | | | 22.10 | | | 22.100 | | 154.900 | 177.000 |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation= | | | | | | | 40.504 | | | |
| | Deduction of 315mm dia pipe | | | | | | | | | | |
| | pipe area | 1.00 | | 0.785 | 21.40 | 0.315 | 0.315 | 1.67 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | | | | | | | 0.00 | | | |
| | Murum bedding | | | | | | | 1.74 | | | |
| | | | | | | | | 3.41 | | | |
| | | | | | | | | Net Qty = A - B | | 386.01 | 423.10 |
| | DWC - 250mm Dia | | | | | | | | | | |



2

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

Book No. :-
Page No. :- 170

Milind Nagar-03, Measurement MB

5 of 7

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Up to Date Quantity |
|----------|--|---------|---------|---------|------|-------|-------|--------------------|------------------|----------|---------------------------|
| | | No | | | L | B | D | | Page | Quantity | |
| | | GL | IL | EX.L | | | | | | | |
| | Width of Trench - For Lift 0 to 1.50m-0.250+0.5=0.750m | | | | | | | | | | |
| | For Lift 1.5 to 3.00m-0.250+0.5+0.4=1.150m | | | | | | | | | | |
| | For Lift 3.0 to 4.5m-0.250+0.5+0.4+0.4=1.550m | | | | | | | | | | |
| 10/10/16 | MN.4 TO MN.4.1 | | | | | | 1.700 | 1.650 | | | |
| | CH0.00 | 566.050 | 564.450 | 564.350 | | | 1.600 | | | | |
| | CH3.15 | 566.050 | 564.550 | 564.450 | | | | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.2 | 1.150 | 1.200 | 1.656 | 150.847 | 152.903 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 1.2 | 0.750 | 0.150 | 0.135 | 0.000 | 0.135 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.2 | 1.150 | 0.200 | 0.276 | 152.378 | 152.654 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.2 | 1.150 | 0.100 | 0.138 | 21.659 | 21.797 | |
| | Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding) | 1 | | | 1.2 | 0.750 | 0.100 | 0.090 | 14.083 | 14.173 | |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated | | | | | | | 0.149 | 27.543 | 27.692 | |
| | Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia | 1 | | | 1.80 | | | 1.800 | 0.000 | 1.800 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | 2.205 | | | |
| | Total Excavation= | | | | | | | | | | |
| | Deduction of 250mm dia pipe pipe area | 1.00 | | 0.785 | 1.20 | 0.250 | 0.250 | 0.06 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | | | | | | | 0.09 | | | |
| | Murrum bedding | | | | | | | 0.15 | | | |
| | Net Qty = A - B | | | | | | | 2.06 | 423.10 | 425.16 | |
| 10/10/16 | MN.5 TO MN.5.1 | | | | | | 2.000 | 1.950 | | | |
| | CH0.00 | 566.080 | 564.180 | 564.080 | | | 1.900 | | | | |
| | CH3.00 | 566.080 | 564.280 | 564.180 | | | | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.1 | 1.150 | 1.200 | 1.449 | 152.503 | 152.852 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 1.1 | 0.750 | 0.450 | 0.354 | 0.135 | 0.489 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.1 | 1.150 | 0.200 | 0.242 | 152.654 | 152.896 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |



g



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, Padawan, CHDC (Airport) Construction, Erection, Testing and Commission

Book No. :-

Page No. :- 171

6 of 7

Milind Nagar-03, Measurement MB

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Upto Date Quantity |
|----------|--|---------|---------|---------|------|-------|-------|--------------------|------------------|----------|--------------------------|
| | | No | | | L | B | D | | Page | Quantity | |
| | | GL | IL | EX.L | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.1 | 1.150 | 0.100 | 0.121 | | 21.797 | 21.918 |
| | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding) | 1 | | | 1.1 | 0.750 | 0.100 | 0.079 | | 14.173 | 14.252 |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated | | | | | | | 0.130 | | 27.692 | 27.822 |
| | Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia | 1 | | | 1.65 | | | 1.650 | | 1.800 | 3.450 |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation= | | | | | | | 2.166 | | | |
| | Deduction of 250mm dia pipe | | | | | | | | | | |
| | pipe area | 1.00 | | 0.785 | 1.05 | 0.250 | 0.250 | 0.05 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | | | | | | | 0.00 | | | |
| | Murum bedding | | | | | | | 0.08 | | | |
| | | | | | | | | 0.13 | | | |
| | | | | | | | | 2.04 | | 425.16 | 427.19 |
| | | | | | | | | | | | |
| 12/10/16 | MN.6 TO MN.6.1 | | | | | | | | | | |
| | CH0.00 | 565.370 | 563.170 | 563.070 | | | | 2.300 | 1.950 | | |
| | CH3.20 | 565.370 | 563.870 | 563.770 | | | | 1.600 | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.3 | 1.150 | 1.200 | 1.725 | | 153.952 | 155.677 |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 1.3 | 0.750 | 0.450 | 0.422 | | 0.489 | 0.911 |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.3 | 1.150 | 0.200 | 0.288 | | 152.896 | 153.183 |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 1.3 | 1.150 | 0.100 | 0.144 | | 21.918 | 22.061 |
| | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding) | 1 | | | 1.3 | 0.750 | 0.100 | 0.094 | | 14.252 | 14.346 |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated | | | | | | | 0.155 | | 27.822 | 27.977 |
| | Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia | 1 | | | 1.85 | | | 1.850 | | 3.450 | 5.300 |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation= | | | | | | | 2.578 | | | |
| | Deduction of 250mm dia pipe | | | | | | | | | | |
| | pipe area | 1.00 | | 0.785 | 1.25 | 0.250 | 0.250 | 0.06 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | | | | | | | 0.00 | | | |
| | Murum bedding | | | | | | | 0.09 | | | |
| | | | | | | | | 0.16 | | | |
| | | | | | | | | 2.42 | | 427.19 | 429.62 |
| | | | | | | | | | | | |
| 12/10/16 | MN.7 TO MN.7.1 | | | | | | | | | | |
| | CH0.00 | 565.770 | 564.720 | 564.620 | | | | 1.150 | 1.100 | | |
| | CH4.50 | 565.770 | 564.820 | 564.720 | | | | 1.050 | | | |



Handwritten signature



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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. :- **172**

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

7 of 7

Milind Nagar-03, Measurment MB

| Date | Particulars of work | DETAILS | | | | | | Content of arrears | Last measurement | | Total Page No. Quantity |
|------|--|---------|----|-------|------|-------|-------|--------------------|------------------|----------|-------------------------|
| | | No | | | L | B | D | | Page | Quantity | |
| | | 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 | | | 2.6 | 0.750 | 0.800 | 1.530 | | | 155.677 |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 2.6 | 0.750 | 0.000 | 0.000 | | | 0.911 |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 2.6 | 0.750 | 0.200 | 0.383 | | | 153.183 |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 2.6 | 0.750 | 0.000 | 0.000 | | | 125.760 |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 2.6 | 0.750 | 0.100 | 0.191 | | | 22.061 |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 2.6 | 0.750 | 0.000 | 0.000 | | | 62.018 |
| | (c) For Lift 3.0m to 4.5m | 1 | | | 2.6 | 0.750 | 0.000 | 0.000 | | | 9.092 |
| | Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding) | 1 | | | 2.6 | 0.750 | 0.100 | 0.191 | | | 14.346 |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated | | | | | | | 0.316 | | | 27.977 |
| | Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia | 1 | | | 3.15 | | | 3.150 | | | 5.300 |
| | Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia | | | | | | | | | | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation= | | | | | | | 2.104 | | | |
| | Deduction of 250mm dia pipe | | | | | | | | | | |
| | pipe area | 1.00 | | 0.785 | 2.55 | 0.25 | 0.250 | 0.13 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | | | | | | | 0.00 | | | |
| | Murrum bedding | | | | | | | 0.19 | | | |
| | | | | | | | | 0.32 | | | |
| | | | | | | | | 1.79 | | | 429.62 |



Handwritten signature



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ah. 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

Book No. :-
Page No. :- **173**

1 OF 4

Milind Nagar-03 Chamber meas.

11th RA BILL MEASUREMENTS OF CHAMBERS MILIND NAGAR-03

| Date | Particulars of work | DETAILS | | | | | | Content of area | Last measurement | | Total Upto Date Quantity |
|------|---|---------|---------|---------|-------|--------|-------|------------------------|------------------|----------|--------------------------|
| | | GL | No | | L | B | D | | Page | Quantity | |
| | | | IL | EX.L | | | | | | | |
| | For 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.5+0.5=3.20m | | | | | | | | | | |
| | Area for chamber upto =3.20*3.20=10.24m | | | | | | | | | | |
| | MN.02 | | | | | | | | | | |
| | CH56.20 | 564.920 | 561.715 | 561.465 | | | 3.455 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.600 | 4.823 | 0.000 | 4.823 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.800 | 6.431 | 0.000 | 6.431 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 10.240 | 1.500 | 12.058 | 0.000 | 12.058 | |
| | (c) For Lift 3.0m to 4.5m | 1 | | | 0.785 | 10.240 | 0.455 | 3.657 | 0.000 | 3.657 | |
| | Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.100 | 0.804 | 0.000 | 0.804 | |
| | Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate | | | | | | | 9.947 | 0.000 | 9.947 | |
| | Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| | Total Excavation(A)= | | | | | | | 27.773 | | | |
| | Deduction | | | | | | | | | | |
| | Brick work | 1.00 | | 0.785 | 2.280 | 2.280 | 1.205 | 4.92 | | | |
| | Brick work | 1.00 | | 0.785 | 1.540 | 1.540 | 2.000 | 3.72 | | | |
| | soling | | | | | | | 0.00 | | | |
| | PCC | 1.00 | | 0.785 | 2.580 | 2.580 | 0.250 | 1.31 | | | |
| | Murrum bedding | | | | | | | 0.00 | | | |
| | Total (B) | | | | | | | 9.95 | | | |
| | | | | | | | | Net Qty = A - B | | | |
| | | | | | | | | 17.83 | 0.000 | 17.83 | |
| | MN.03 | | | | | | | | | | |
| | CH87.70 | 565.430 | 562.390 | 562.140 | | | 3.290 | | | | |
| | Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.500 | 4.019 | 4.823 | 8.842 | |
| | Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| | (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.900 | 7.235 | 6.431 | 13.665 | |
| | (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 10.240 | 0.700 | 5.627 | 12.058 | 17.684 | |



g



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

Book No. :-
Page No. :-

174

2 OF 4

Milind Nagar-03 Chamber meas.

| | | | | | | | | | |
|---|---------|---------|---------|--|-------|--------|-------|--------|--------|
| Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | | 0.785 | 10.240 | 0.100 | 0.804 | |
| (b) For Lift 1.5m to 3.0m | 1 | | | | 0.785 | 10.240 | 0.800 | 6.431 | 0.804 |
| (c) For Lift 3.0m to 4.5m | 1 | | | | 0.785 | 10.240 | 0.290 | 2.331 | 0.000 |
| | | | | | | | | 9.274 | 0.000 |
| Item No. : 11 Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate | | | | | | | | | |
| | | | | | | | | 9.947 | 19.221 |
| Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | |
| Total Excavation(A)= | | | | | | | | 24.115 | |
| Deduction | | | | | | | | | |
| Brick work | 1.00 | | | | 0.785 | 2.280 | 2.280 | 1.040 | 4.24 |
| Brick work | 1.00 | | | | 0.785 | 1.540 | 1.540 | 2.000 | 3.72 |
| soling | | | | | | | | | 0.00 |
| PCC | 1.00 | | | | 0.785 | 2.580 | 2.580 | 0.250 | 1.31 |
| Murum bedding | | | | | | | | | 0.00 |
| Total (B) | | | | | | | | 9.27 | |
| Net Qty = A - B | | | | | | | | 14.84 | 17.826 |
| MN.04 | | | | | | | | | |
| CH124.20 | 566.050 | 562.620 | 562.370 | | | | | 3.680 | |
| Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | | 0.785 | 10.240 | 0.700 | 5.627 | 8.842 |
| Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | | 0.785 | 10.240 | 0.700 | 5.627 | 13.665 |
| (b) For Lift 1.5m to 3.0m | 1 | | | | 0.785 | 10.240 | 0.900 | 7.235 | 17.684 |
| Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | | 0.785 | 10.240 | 0.100 | 0.804 | 1.608 |
| (b) For Lift 1.5m to 3.0m | 1 | | | | 0.785 | 10.240 | 0.600 | 4.823 | 6.431 |
| (c) For Lift 3.0m to 4.5m | 1 | | | | 0.785 | 10.240 | 0.680 | 5.466 | 2.331 |
| | | | | | | | | 10.865 | 19.221 |
| Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | |
| Total Excavation(A)= | | | | | | | | 24.115 | |
| Deduction | | | | | | | | | |
| Brick work | 1.00 | | | | 0.785 | 2.280 | 2.280 | 1.430 | 5.84 |
| Brick work | 1.00 | | | | 0.785 | 1.540 | 1.540 | 2.000 | 3.72 |
| soling | | | | | | | | | 0.00 |
| PCC | 1.00 | | | | 0.785 | 2.580 | 2.580 | 0.250 | 1.31 |
| Murum bedding | | | | | | | | | 0.00 |
| Total (B) | | | | | | | | 10.87 | |
| Net Qty = A - B | | | | | | | | 13.25 | 32.667 |
| MN.05 | | | | | | | | | |



g



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, Wood

Book No. :-

Page No. :- **175**

3 OF 4

Milind Nagar-03 Chamber meas.

| CH148.40 | 566.080 | 563.270 | 563.020 | | | 3.060 | | | | |
|---|----------------|----------------|----------------|-------|--------|--------------|--------|--|--------|--------|
| Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.800 | 6.431 | | 14.469 | 20.900 |
| Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.600 | 4.823 | | 19.292 | 24.115 |
| (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 10.240 | 0.900 | 7.235 | | 24.919 | 32.154 |
| Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.100 | 0.804 | | 2.412 | 3.215 |
| (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 10.240 | 0.600 | 4.823 | | 11.254 | 16.077 |
| (c) For Lift 3.0m to 4.5m | 1 | | | 0.785 | 10.240 | 0.060 | 0.482 | | 7.797 | 8.280 |
| Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate | | | | | | | 8.335 | | 30.086 | 38.421 |
| Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| Total Excavation(A)= | | | | | | | 24.115 | | | |
| Deduction | | | | | | | | | | |
| Brick work | 1.00 | | | 0.785 | 2.280 | 2.280 | 0.810 | | 3.31 | |
| Brick work | 1.00 | | | 0.785 | 1.540 | 1.540 | 2.000 | | 3.72 | |
| soling | | | | | | | | | 0.00 | |
| PCC | 1.00 | | | 0.785 | 2.580 | 2.580 | 0.250 | | 1.31 | |
| Murrum bedding | | | | | | | | | 0.00 | |
| Total (B) | | | | | | | 8.34 | | | |
| Net Qty = A - B | | | | | | | 15.78 | | 45.917 | 61.70 |
| MN.06 | | | | | | | | | | |
| CH162.40 | 565.370 | 563.310 | 563.060 | | | 2.310 | | | | |
| Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. | | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.900 | 7.235 | | 20.900 | 28.134 |
| Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. | | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.500 | 4.019 | | 24.115 | 28.134 |
| (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 10.240 | 0.700 | 5.627 | | 32.154 | 37.780 |
| Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. | | | | | | | | | | |
| (a) For Lift 0 to 1.5m | 1 | | | 0.785 | 10.240 | 0.100 | 0.804 | | 3.215 | 4.019 |
| (b) For Lift 1.5m to 3.0m | 1 | | | 0.785 | 10.240 | 0.110 | 0.884 | | 16.077 | 16.961 |
| Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate | | | | | | | 7.050 | | 38.421 | 45.471 |
| Item No. 30 :- Refilling the excavated trenches ... | | | | | | | | | | |
| Total Excavation(A)= | | | | | | | 18.569 | | | |

