



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :-

Page No. :- 059

1 of 8

Masnatpur-05 - Meas. SW Pipe

### 12th RA BILL MEASUREMENTS PIPE MASNATPUR - 05

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>SW PIPE - 200 mm Dia</b>										
	Width of Trench - For Lift 0 to 1.50m- $0.200+0.02+0.02+0.5=0.74m$										
	For Lift 1.5 to 3.00m- $0.200+0.02+0.02+0.5+0.4=1.14m$										
	For Lift 3.0 to 4.5m- $0.200+0.5+0.02+0.02+0.4+0.4=1.54m$										
	<b>MH 8.16.5 to MH 8.16.6</b>										
	CH36.80	578.975	578.045	577.945			1.030	1.015			
	CH43.90	578.985	578.085	577.985			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.100	0.740	0.815	3.076		27.024	30.100
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.100	0.740	0.200	0.755		0.000	0.755
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.700	0.740	0.100	0.422		3.121	3.542
	Item No. 11 Transportation of earth Transportation charges including loading & unloading							0.638		4.980	5.618
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.200			6.200			6.200
	Item No. 30 :- Refilling the excavated trenches ...							3.831			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	5.700	0.220	0.220	0.217			
	soling							0.000			
	PCC							0.422			
	Murrum bedding							0.638			
	<b>Net Qty = A - B</b>							<b>3.192</b>		<b>22.045</b>	<b>25.237</b>
	<b>MH 8.16.6 to MH 8.16.7</b>										
	CH43.90	578.985	578.085	577.985			1.000	0.990			
	CH49.35	579.065	578.185	578.085			0.980				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.450	0.740	0.790	2.017		30.100	32.117
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



Handwritten signatures and initials



# 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. 067

Page No. :-

2 of 8

Masnatpur-05 - Meas. SW Pipe

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			3.450	0.740	0.200	0.511		0.755	1.265
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.050	0.740	0.100	0.300		3.542	3.842
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.454		5.618	6.072
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			4.550			4.550		6.200	10.750
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							2.527			
	<b>Deduction</b>										
	pipe area	1		0.785	4.050	0.220	0.220	0.154			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.300			
								0.454			
								<b>Net Qty = A - B</b>		25.237	27.311
	<b>MH 8.16.7 to MH 8.16.8</b>										
	CH49.35	579.065	578.185	578.085			0.980	0.998			
	CH62.50	579.210	578.295	578.195			1.015				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.150	0.740	0.798	6.580		32.117	38.697
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.150	0.740	0.200	1.650		1.265	2.916
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.750	0.740	0.100	0.870		3.842	4.712
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.316		6.072	7.388
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			12.250			12.250		10.750	23.000
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							8.230			
	<b>Deduction</b>										
	pipe area	1		0.785	11.750	0.220	0.220	0.446			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.870			
								1.316			
								<b>Net Qty = A - B</b>		27.311	34.225
	<b>MH 8.16.8 to MH 8.16.9</b>										
	CH62.50	579.210	578.295	578.195			1.015	1.000			



Handwritten signatures and initials



# 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. :-

061

3 of 8

Masnatpur-05 - Meas. SW Pipe

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	CH66.90	579.385	578.325	578.225			1.160				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.400	0.740	0.888	1.576		38.697	40.273
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.400	0.740	0.200	0.355		2.916	3.271
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.000	0.740	0.100	0.222		4.712	4.934
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.336		7.388	7.724
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			3.500			3.500		23.000	26.500
	Item No. 30 :- Refilling the excavated trenches ...							1.931			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	3.000	0.220	0.220	0.114			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.222			
								0.336			
								<b>1.595</b>		<b>34.225</b>	<b>35.821</b>
	<b>Net Qty = A - B</b>										
	MH 8.16.9 to MH 8.16.10										
	CH66.90	579.385	578.325	578.225			1.160	1.160			
	CH72.30	579.415	578.355	578.255			1.160				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.400	0.740	0.960	2.415		40.273	42.689
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.400	0.740	0.200	0.503		3.271	3.774
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.000	0.740	0.100	0.296		4.934	5.230
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.448		7.724	8.172
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			4.500			4.500		26.500	31.000
	Item No. 30 :- Refilling the excavated trenches ...							2.919			
	<b>Total Excavation=</b>										



*[Handwritten signature]*

*[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. : 062  
Page No. :

4 of 8

Masnatpur-05 - Meas. SW Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Deduction</b>										
	pipe area	1		0.785	4.000	0.220	0.220	0.152			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.296			
								<b>0.448</b>			
		<b>Net Qty = A - B</b>						<b>2.471</b>	<b>35.821</b>	<b>38.291</b>	
	<b>MH 8.16.10 to MH 8.16.11</b>										
	CH72.30	579.415	578.355	578.255			1.160	1.110			
	CH79.80	579.405	578.445	578.345			1.060				
	<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			5.500	0.740	0.910	3.704	42.689	46.392	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.500	0.740	0.200	0.814	3.774	4.588	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.100	0.740	0.100	0.451	5.230	5.681	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							0.683	8.172	8.855	
	<b>Extra Item 9.2 (c) :-</b> Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.600			6.600	31.000	37.600	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>4.518</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	6.100	0.220	0.220	0.232			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.451			
								<b>0.683</b>			
		<b>Net Qty = A - B</b>						<b>3.835</b>	<b>38.291</b>	<b>42.126</b>	
	<b>MH 8.16.11 to MH 8.16.12</b>										
	CH79.80	579.405	578.445	578.345			1.060	1.115			
	CH89.10	579.655	578.585	578.485			1.170				
	<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			7.300	0.740	0.915	4.943	46.392	51.335	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	0.740	0.200	1.080	4.588	5.668	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.900	0.740	0.100	0.585	5.681	6.266	





# 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

Book No. :- 063

Page No. :-

5 of 8

Masnatpur-05 - Meas. SW Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.885		8.855	9.740
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.400			8.400		37.600	46.000
	Item No. 30 :- Refilling the excavated trenches ...							6.023			
	<b>Total Excavation=</b>										
	Deduction										
	pipe area	1		0.785	7.900	0.220	0.220	0.300			
	soling							0.000			
	PCC							0.585			
	Murrum bedding							0.885			
								5.138		42.126	47.264
	<b>Net Qty = A - B</b>										
	MH 8.16.12 to MH 8.16.13										
	CH89.10	579.655	578.585	578.485			1.170	1.125			
	CH98.40	579.765	578.785	578.685			1.080				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	0.740	0.925	4.997		51.335	56.332
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	0.740	0.200	1.080		5.668	6.749
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.900	0.740	0.100	0.585		6.266	6.850
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.885		9.740	10.624
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.400			8.400		46.000	54.400
	Item No. 30 :- Refilling the excavated trenches ...							6.077			
	<b>Total Excavation=</b>										
	Deduction										
	pipe area	1		0.785	7.900	0.220	0.220	0.300			
	soling							0.000			
	PCC							0.585			
	Murrum bedding							0.885			
								5.192		47.264	52.457
	<b>Net Qty = A - B</b>										
	MH 8.16.13 to MH 8.16.14										
	CH98.40	579.765	578.785	578.685			1.080	1.125			
	CH102.40	579.865	578.795	578.695			1.170				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			2.000	0.740	0.925	1.369		56.332	57.701



Handwritten signatures and initials





# 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/D) pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :-

Page No. :-

065

7 of 8

Masnatpur-05 - Meas. SW Pipe

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	MH 8.16.15 to MH 8.16.16										
	CH115.75	579.875	579.025	578.925			0.950				
	CH127.85	579.985	579.345	579.245			0.740				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			10.100	0.740	0.645	4.821	64.924	69.745	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.100	0.740	0.200	1.495	8.725	10.219	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.700	0.740	0.100	0.792	7.927	8.719	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.198	12.254	13.452	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			11.200			11.200	69.950	81.150	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.316			
	Deduction										
	pipe area	1		0.785	10.700	0.220	0.220	0.407			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.792			
								1.198			
								5.117	61.395	66.512	
	Net Qty = A - B										
	MH 8.16.5 to MH 8.16.5.1										
	CH0.00	578.975	578.045	577.945			1.030	1.090			
	CH19.40	579.125	578.075	577.975			1.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			17.700	0.740	0.990	12.967	69.745	82.712	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.700	0.740	0.100	1.310	10.219	11.529	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.300	0.740	0.100	1.354	8.719	10.073	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.049	13.452	15.502	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			18.800			18.800	81.150	99.950	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							14.277			



Handwritten signatures and initials



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone 1 to V1 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. :- 065  
Page No. :-

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

**Authority No.** AMC/Ward B&C/UIDSSM1/2014/184 Date 01.07.2014

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

8 of 8

Masnatpur-05 - Meas. SW Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Deduction</b>										
	pipe area	1		0.785	18.300	0.220	0.220	0.695			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.354			
								2.049			
		<b>Net Qty = A - B</b>						12.227	66.512	78.740	
	<b>MH 8.16.5.1 to MH 8.16.5.2</b>										
	CH19.40	579.125	578.075	577.975			1.150	1.175			
	CH28.55	579.225	578.125	578.025			1.200				
	<b>Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.</b>										
	(a) For Lift 0 to 1.5m	1			7.150	0.740	1.075	5.688	82.712	88.400	
	<b>Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.</b>										
	(a) For Lift 0 to 1.5m	1			7.150	0.740	0.100	0.529	11.529	12.058	
	<b>Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)</b>										
	(a)	1			7.750	0.740	0.100	0.574	10.073	10.646	
	<b>Item No. : 11 Transportation of earth Transportation charges including loading &amp; unloading</b>							0.868	15.502	16.370	
	<b>Extra Item 9.2 (c) :-Lowering &amp; Laying of Polyethylene SW pipe of 200mm Dia</b>										
	(a)	1			8.250			8.250	99.950	108.200	
	<b>Item No. 30 :- Refilling the excavated trenches ...</b>										
	<b>Total Excavation=</b>							6.217			
	<b>Deduction</b>										
	pipe area	1		0.785	7.750	0.220	0.220	0.294			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.574			
								0.868			
		<b>Net Qty = A - B</b>						5.349	78.740	84.089	







# 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

Book No. 067  
Page No. :-

Masnatur-05 - Meas.Chamber

1 of 8

### 11th RA BILL MEASUREMENTS OF CHAMBERS MASNATUR - 05

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										
	MH 8.16.1	578.545	577.595	577.345			1.200				
	CH8.00										
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	4.000	1.200	3.768		0.000	3.768
	(a) For Lift 0 to 1.5m	1						1.576		0.000	1.576
	Item No. : 11 Transportation of earth Transportation charges										
	Item No. 30 :- Refilling the excavated trenches ...							3.768			
	Total Excavation(A)=										
	Deduction			0.785	1.200	1.200	0.950	1.074			
	Brick work	1						0.000			
	soling			0.785	1.600	1.600	0.250	0.502			
	PCC	1						0.000			
	Murrum bedding							1.576			
	Total (B)							2.192		0.000	2.192
					Net Qty = A - B						
	MH 8.16.2						1.110				
	CH18.40	578.660	577.800	577.550							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	4.000	1.110	3.485		3.768	7.253
	(a) For Lift 0 to 1.5m	1						1.475		1.576	3.051
	Item No. : 11 Transportation of earth Transportation charges										
	Item No. 30 :- Refilling the excavated trenches ...							3.485			
	Total Excavation(A)=										
	Deduction			0.785	1.200	1.200	0.860	0.972			
	Brick work	1						0.000			
	soling			0.785	1.600	1.600	0.250	0.502			
	PCC	1						0.000			
	Murrum bedding							1.475			
	Total (B)							2.011		2.192	4.203
					Net Qty = A - B						
	MH 8.16.3						1.160				
	CH27.50	578.825	577.915	577.665							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	4.000	1.160	3.642		7.253	10.896
	(a) For Lift 0 to 1.5m	1						1.531		3.051	4.582
	Item No. : 11 Transportation of earth Transportation charges										



*[Handwritten signatures]*



# 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. :- **063**

2 of 8

Masnatpur-05 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.642</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.910	1.029			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>						<b>1.531</b>				
		<b>Net Qty = A - B</b>						<b>2.111</b>		<b>4.203</b>	<b>6.314</b>
	MH 8.16.4										
	CH31.30	578.995	578.015	577.765			1.230				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.230	3.862	10.896	14.758	
	Item No. : 11 Transportation of earth Transportation charges							1.610	4.582	6.192	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.862</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.980	1.108			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>						<b>1.610</b>				
		<b>Net Qty = A - B</b>						<b>2.252</b>		<b>6.314</b>	<b>8.566</b>
	MH 8.16.5										
	CH36.80	578.975	578.045	577.795			1.180				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.180	3.705	14.758	18.463	
	Item No. : 11 Transportation of earth Transportation charges							1.554	6.192	7.746	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.705</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.930	1.051			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>						<b>1.554</b>				
		<b>Net Qty = A - B</b>						<b>2.152</b>		<b>8.566</b>	<b>10.717</b>
	MH 8.16.2.1										
	CH7.25	578.945	578.335	578.085			0.860				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.860	2.700	18.463	21.164	





# 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 line from Golwadi, SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :- 077  
Page No. :-

4 of 8

Masnatpur-05 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	CH49.35	579.065	578.185	577.935			1.130				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.930	2.920		26.580	29.500
	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	0.200	0.628		0.628	1.256
	Item No. : 11 Transportation of earth Transportation charges							1.497		11.553	13.050
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.548</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.880	0.995			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.497</b>			
								<b>Net Qty = A - B</b>		<b>15.655</b>	<b>17.706</b>
	MH 8.16.8										
	CH62.50	579.210	578.295	578.045			1.165				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.965	3.030		29.500	32.530
	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	0.200	0.628		1.256	1.884
	Item No. : 11 Transportation of earth Transportation charges							1.537		13.050	14.587
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.658</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.915	1.034			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.537</b>			
								<b>Net Qty = A - B</b>		<b>17.706</b>	<b>19.827</b>
	MH 8.16.9										
	CH66.90	579.385	578.325	578.075			1.310				
	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	4.000	1.110	3.485		32.530	36.016
	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	0.200	0.628		1.884	2.512



Handwritten signatures



# 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, CHDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No. 10 and CHDCO (Airport). Providing, lowering, laying jointing and testing rising main

Book No. 071  
Page No.

5 of 8

Masnatpur-05 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. : 11 Transportation of earth Transportation charges							1.701		14.587	16.288
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.113			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.060	1.198			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.701			
								2.413		19.827	22.240
	MH 8.16.10										
	CH72.30	579.415	578.355	578.105			1.310				
	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	4.000	1.110	3.485		36.016	39.501
	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	0.200	0.628		2.512	3.140
	Item No. : 11 Transportation of earth Transportation charges							1.701		16.288	17.988
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.113			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.060	1.198			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.701			
								2.413		22.240	24.653
	MH 8.16.11										
	CH79.80	579.405	578.445	578.195			1.210				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.010	3.171		39.501	42.673
	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	0.200	0.628		3.140	3.768
	Item No. : 11 Transportation of earth Transportation charges							1.588		17.988	19.576
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.799			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.960	1.085			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			



Handwritten signatures and initials



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone 1 to V1 and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main

Book No. :- 072  
Page No. :-

6 of 8

Masnatpur-05 - Meas Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murram bedding						0.000				
	<b>Total (B)</b>						<b>1.588</b>				
		<b>Net Qty = A - B</b>						<b>2.212</b>		<b>24.653</b>	<b>26.865</b>
	<b>MH 8.16.12</b>										
	CH89.10	579.655	578.585	578.335							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.120	3.517	42.673	46.189	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628	3.768	4.396	
	Item No. : 11 Transportation of earth Transportation charges							1.712	19.576	21.288	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>4.145</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	1.070	1.210			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>						<b>1.712</b>				
		<b>Net Qty = A - B</b>						<b>2.433</b>		<b>26.865</b>	<b>29.297</b>
	<b>MH 8.16.13</b>										
	CH98.40	579.765	578.785	578.535							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.030	3.234	46.189	49.424	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628	4.396	5.024	
	Item No. : 11 Transportation of earth Transportation charges							1.610	21.288	22.898	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.862</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.980	1.108			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>						<b>1.610</b>				
		<b>Net Qty = A - B</b>						<b>2.252</b>		<b>29.297</b>	<b>31.549</b>
	<b>MH 8.16.14</b>										
	CH102.40	579.865	578.795	578.545							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.120	3.517	49.424	52.940	



*(Handwritten signatures)*



# 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

Book No. :-

Page No. :- 073

7 of 8

Masnatpur-05 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	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	0.200	0.628		5.024	5.652
	Item No. : 11 Transportation of earth Transportation charges							1.712		22.898	24.610
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.145			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.070	1.210			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.712			
		Net Qty = A - B							2.433	31.549	33.982
	MH 8.16.15										
	CH115.75	579.875	579.025	578.775			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.900	2.826		52.940	55.766
	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	0.200	0.628		5.652	6.280
	Item No. : 11 Transportation of earth Transportation charges							1.463		24.610	26.073
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.454			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.850	0.961			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.463			
		Net Qty = A - B							1.991	33.982	35.973
	MH 8.16.16										
	CH127.85	579.985	579.345	579.095			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			0.785	4.000	0.690	2.167		55.766	57.933
	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	0.200	0.628		6.280	6.908
	Item No. : 11 Transportation of earth Transportation charges							1.226		26.073	27.299
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.795			



*[Handwritten signatures]*

# 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. :- 074  
Page No. :-

8 of 8

Masnatpur-05 - Meas.Chamber

Date	Particulars of work	DETAILS					Content of arrears	Last measurement Page	Quantity	Total Upto Date Quantity	
		GL	No IL	EX.L	L	B					D
	Deduction			0.785	1.200	1.200	0.640			0.723	
	Brick work	1								0.000	
	soling									0.502	
	PCC	1		0.785	1.600	1.600	0.250			0.000	
	Murram bedding									1.226	
	<b>Total (B)</b>									<b>1.569</b>	
				<b>Net Qty = A - B</b>							<b>35.973</b>
	<b>MH 8.16.5.1</b>										
	<b>CH19.40</b>	579.125	578.075	577.825			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			0.785	4.000	1.200	3.768		57.933	61.701
	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	0.100	0.314		6.908	7.222
	Item No. : 11 Transportation of earth Transportation charges							1.689		27.299	28.988
	Item No. 30 :- Refilling the excavated trenches ...							4.082			
	<b>Total Excavation(A)=</b>										
	Deduction			0.785	1.200	1.200	1.050	1.187			
	Brick work	1						0.000			
	soling							0.502			
	PCC	1		0.785	1.600	1.600	0.250	0.000			
	Murram bedding							1.689			
	<b>Total (B)</b>							<b>2.393</b>		<b>37.542</b>	<b>39.935</b>
				<b>Net Qty = A - B</b>							
	<b>MH 8.16.5.2</b>										
	<b>CH28.55</b>	579.225	578.125	577.875			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	1.250	3.925		61.701	65.626
	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	0.100	0.314		7.222	7.536
	Item No. : 11 Transportation of earth Transportation charges							1.746		28.988	30.734
	Item No. 30 :- Refilling the excavated trenches ...							4.239			
	<b>Total Excavation(A)=</b>										
	Deduction			0.785	1.200	1.200	1.100	1.243			
	Brick work	1						0.000			
	soling							0.502			
	PCC	1		0.785	1.600	1.600	0.250	0.000			
	Murram bedding							1.746			
	<b>Total (B)</b>							<b>2.493</b>		<b>39.935</b>	<b>42.428</b>
				<b>Net Qty = A - B</b>							







# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :-  
Page No. 975

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

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

		Details					Last Measurement	
Date of								
1 of 1		Masnatpur-05 - Manhole Details						
<b>12th R A BILL MEASURMENTS</b>								
<b>Branch Sewer at MASNATPUR - 05</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								
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 8.00	MH 8.16.1	578.545	577.595	0.950	-0.550	-11.700	-39.000
2	CH 18.40	MH 8.16.2	578.660	577.800	0.860	-0.640		
3	CH 27.50	MH 8.16.3	578.825	577.915	0.910	-0.590		
4	CH 31.30	MH 8.16.4	578.995	578.015	0.980	-0.520		
5	CH 36.80	MH 8.16.5	578.975	578.045	0.930	-0.570		
6	CH 7.25	MH 8.16.2.1	578.945	578.335	0.610	-0.890		
7	CH 15.45	MH 8.16.2.2	579.125	578.600	0.525	-0.975		
8	CH 43.90	MH 8.16.6	578.985	578.085	0.900	-0.600		
9	CH 49.35	MH 8.16.7	579.065	578.185	0.880	-0.620		
10	CH 62.50	MH 8.16.8	579.210	578.295	0.915	-0.585		
11	CH 66.90	MH 8.16.9	579.385	578.325	1.060	-0.440		
12	CH 72.30	MH 8.16.10	579.415	578.355	1.060	-0.440		
13	CH 79.80	MH 8.16.11	579.405	578.445	0.960	-0.540		
14	CH 89.10	MH 8.16.12	579.655	578.585	1.070	-0.430		
15	CH 98.40	MH 8.16.13	579.765	578.785	0.980	-0.520		
16	CH 102.40	MH 8.16.14	579.865	578.795	1.070	-0.430		
17	CH 115.75	MH 8.16.15	579.875	579.025	0.850	-0.650		
18	CH 127.85	MH 8.16.16	579.985	579.345	0.640	-0.860		
19	CH 19.40	MH 8.16.5.1	579.125	578.075	1.050	-0.450		
20	CH 28.55	MH 8.16.5.2	579.225	578.125	1.100	-0.400		
						<b>Total</b>		<b>-39.000</b>



Handwritten signatures

# 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 (Kanchanywadi), 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 (Kanchanywadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- **076**  
Page No. :-

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

An

Date  
Meas  
ren

Masnatpur-05 Quantity Node Abstract

### 12th R A BILL MEASUREMENTS Branch Sewer at MASNATPUR - 05

SR NO	Description	MB/PG	ITEM 1		ITEM 2	ITEM 7	ITEM 11	ITEM 12			ITEM 13		ITEM 30	EIRL 2	EIRL 2.a	EIRL 9.1		EIRL 9.2	
			0-1.5	0-1.5				200mm	250mm	200mm	250mm	200mm				200mm	200mm	200mm	
1	For Pipe		88.400	12.058	10.646	16.370	13.650	32.300	13.650	32.300	32.300	84.089				108.200	108.200		
2	For Manhole		65.626	7.536		30.734						42.428			(39.000)				
<b>Total</b>			<b>154.026</b>	<b>19.594</b>	<b>10.646</b>	<b>47.104</b>	<b>13.650</b>	<b>32.300</b>	<b>13.650</b>	<b>32.300</b>	<b>126.516</b>	<b>20.000</b>	<b>20.000</b>	<b>108.200</b>	<b>108.200</b>	<b>108.200</b>	<b>108.200</b>		





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone 1 to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakhstrawadi (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 Nakhstrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 077  
Page No. :-

1 of 5

Ambedkar Nagar(Panchashil Chowk)-300 dwc - Pipe Measurement

### 11th RA BILL MEASUREMENTS DWC PIPE AMBEDKARNAGAR(PANCHASHIL CHOWK)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 315 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m-										
	0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m-										
	0.315+0.5+0.4+0.4=1.615m										
	AMN1 TO AMN2										
	CH0.00	604.334	601.554	601.454			2.880	2.795			
	CH23.90	604.324	601.714	601.614			2.710				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.240	1.215	1.200	30.968	0.000	30.968	
	(b) For Lift 1.5m to 3.0m	1			21.240	0.815	1.295	22.417	0.000	22.417	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.240	1.215	0.300	7.742	0.000	7.742	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			22.240	0.815	0.100	1.813	0.000	1.813	
	Item No. : 11 Transportation of earth Transportation charges including loading &							3.545	0.000	3.545	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia										
		1			22.740			22.740	0.000	22.740	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							61.127			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	22.240	0.315	0.315	1.732			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.813			
								3.545			
	Net Qty = A - B							57.582	0.000	57.582	
	AMN2 TO AMN3										
	CH23.90	604.324	601.714	601.614			2.710	2.360			
	CH30.50	604.394	602.484	602.384			2.010				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.270	1.215	1.200	6.226	30.968	37.194	
	(b) For Lift 1.5m to 3.0m	1			4.270	0.815	0.860	2.993	22.417	25.410	





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :- **073**  
Page No. :-

2 of 5

Ambedkar Nagar(Panchashil Chowk)-300 dwc - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.270	1.215	0.300	1.556		7.742	9.298
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.070	0.815	0.100	0.413		1.813	2.226
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							0.808		3.545	4.353
	<b>Item No. 13 :-</b> (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			5.570			5.570		22.740	28.310
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>10.775</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.000		0.785	5.070	0.315	0.315	0.395			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.413			
								0.808			
								<b>9.967</b>		<b>57.582</b>	<b>67.549</b>
	<b>AMN3 TO AMN4</b>										
	CH30.50	604.394	602.484	602.384			2.010	2.010			
	CH40.45	604.514	602.604	602.504			2.010				
	<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			7.950	1.215	1.200	11.591		37.194	48.785
	(b) For Lift 1.5m to 3.0m	1			7.950	0.815	0.510	3.304		25.410	28.714
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.950	1.215	0.300	2.898		9.298	12.196
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.550	0.815	0.100	0.697		2.226	2.923
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							1.363		4.353	5.716
	<b>Item No. 13 :-</b> (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			9.050			9.050		28.310	37.360
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>17.793</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.000		0.785	8.550	0.315	0.315	0.666			
	soling							0.000			
	PCC							0.000			

