



# 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. 08 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main

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STP 7 of 7

Sai Vrundavan Colony-04- 200mm RCC Pipe -MB-I

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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			3.900	0.820	0.900	2.878		13.329	16.207
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.900	0.820	0.100	0.320		1.005	1.324
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.900	0.820	0.200	0.640		2.739	3.378
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							0.847		3.625	4.472
	Extra Item 9.4 a) : Lowering & Laying RCC NP3 class pipe of 200mm Dia	1			5.000			5.000		20.000	25.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							3.198			
	<b>Deduction</b>										
	pipe area	1		0.785	3.900	0.260	0.260	0.207			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.640			
	<b>Total = B</b>							0.847			
								<b>Net Qty = A - B</b>		<b>2.351</b>	<b>11.438</b>
11/9/16	<b>SVC5 TO SVC6</b>										
	CH28.60	547.090	546.390	546.190				0.900			
	CH35.50	547.140	546.440	546.240				0.900			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.800	3.214		16.207	19.422
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.100	0.402		1.324	1.726
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.820	0.200	0.804		3.378	4.182
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							1.064		4.472	5.535
	Extra Item 9.4 a) : Lowering & Laying RCC NP3 class pipe of 200mm Dia	1			6.000			6.000		25.000	31.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							3.616			
	<b>Deduction</b>										
	pipe area	1		0.785	4.900	0.260	0.260	0.260			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.804			
	<b>Total = B</b>							1.064			
								<b>Net Qty = A - B</b>		<b>2.553</b>	<b>13.790</b>
11/9/16	<b>SVC6 TO SVC7</b>										
	CH35.50	547.140	546.440	546.240				0.900			



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STI **7 of 7** Sal Vrundavan Colony-04- 200mm RCC Pipe -MB-I

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murrum bedding							0.804			
	<b>Total = B</b>							<b>1.064</b>			
		<b>Net Qty = A - B</b>								<b>19.096</b>	<b>22.050</b>
<b>6/11/16</b>	<b>SVC8 TO SVC9</b>										
	CH49.30	547.390	546.590	546.390			1.000				
	CH56.20	547.470	546.670	546.470			1.000	1.000			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.900	3.616		26.453	30.069
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.100	0.402		2.530	2.932
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.820	0.200	0.804		5.789	6.593
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							1.064		7.662	8.726
	Extra item 9.4 a) : Lowering & Laying RCC NP3 class pipe of 200mm Dia	1			6.000			6.000		43.000	49.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>4.018</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	4.900	0.260	0.260	0.260			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.804			
	<b>Total = B</b>							<b>1.064</b>			
		<b>Net Qty = A - B</b>								<b>22.050</b>	<b>25.005</b>
<b>7/9/16</b>	<b>SVC9 TO SVC10</b>										
	CH56.20	547.470	546.670	546.470			1.000				
	CH63.10	547.540	546.740	546.540			1.000	1.000			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.900	3.616		30.069	33.686
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.100	0.402		2.932	3.333
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.820	0.200	0.804		6.593	7.396
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							1.064		8.726	9.790
	Extra item 9.4 a) : Lowering & Laying RCC NP3 class pipe of 200mm Dia	1			6.000			6.000		49.000	55.000
	Item No 30 :- Refilling the excavated trenches ...										



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## Measurement Book

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

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Sai Vrundavan Colony-04- 200mm RCC Pipe -MB-I

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	<b>Total Excavation = A</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	4.900	0.260	0.260	0.260			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.804			
	<b>Total = B</b>							<b>1.064</b>			
		<b>Net Qty = A - B</b>									
								<b>2.954</b>	<b>25.005</b>	<b>27.959</b>	
8/9/14	<b>SVC10 TO SVC11</b>										
	CH63.10	547.540	546.740	546.540			1.000	0.850			
	CH70.00	547.290	546.790	546.590			0.700				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.750	3.014	33.686	36.699	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.820	0.100	0.402	3.333	3.735	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.820	0.200	0.804	7.396	8.200	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							1.064	9.790	10.853	
	<b>Extra item 9.4 a) :</b> Lowering & Laying RCC NP3 class pipe of 200mm Dia	1			6.000			6.000	55.000	61.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	4.900	0.260	0.260	0.260			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.804			
	<b>Total = B</b>							<b>1.064</b>			
		<b>Net Qty = A - B</b>									
								<b>2.352</b>	<b>27.959</b>	<b>30.311</b>	
8/9/14	<b>SVC11 TO SVC12</b>										
	CH70.00	547.290	546.790	546.590			0.700	0.700			
	CH75.90	547.390	546.890	546.690			0.700				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.900	0.820	0.600	1.919	36.699	38.618	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.900	0.820	0.000	0.000	0.730	0.730	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.900	0.820	0.100	0.320	3.735	4.055	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.900	0.820	0.200	0.640	8.200	8.840	



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**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GEGPL (Joint Venture)  
**Authority No.** AMC/Ward B&C/UIDSSMFD/2014/184 Date: 01.07.2014

7 of 7 Sai Vrundavan Colony 04- 200mm RCC Pipe -MB-1

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE	
		No			L	B	D		Page	Quantity		
		GL	HL	EX.L								
	Item No : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							0.847		10.853	11.700	
	Extra Item 9.4 a) : Lowering & Laying RCC NP3 class pipe of 200mm Dia	1			5.000			5.000		61.000	66.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							2.239				
	Deduction											
	pipe area	1		0.785	3.900	0.260	0.260	0.207				
	soling							0.000				
	PCC							0.000				
	Murrum bedding							0.640				
	Total = B							0.847				
								<b>Net Qty = A - B</b>		1.392	30.311	31.703
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.126					0.000	0.126	



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Sai Vrundavan Colony 04- 200mm RCC Chamber-MB

### 14th RA BILL MEASUREMENTS OF CHAMBER Sai Vrundavan Colony-04

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										
	Area for chamber up to 1.5m depth=2 X 2=4m										
	SVC1										
	CH0.00	547.080	546.180	545.930			1.150				
	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	1.000	3.140	0.000	3.140	
	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	0.000	0.314	
	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	0.000	0.157	
	Item No. : 11 Transportation of earth Transportation charges							1.520	0.000	1.520	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.611			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.900	1.017			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.520			
					Net Qty = A - B			2.091	0.000	2.091	
	SVC2										
	CH10.90	547.080	546.180	545.930			1.150				
	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	1.050	3.297	3.140	6.437	
	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	0.157	0.471	
	Item No. : 11 Transportation of earth Transportation charges							1.520	1.520	3.040	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.611			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.900	1.017			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.520			



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Sai Vrundavan Colony-04- 200mm RCC Chamber-MB

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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		No		L	B	D		Page	Quantity	
		GL	IL							
		Net Qty = A - B					2.091		2.091	4.182
	SVC3									
	CH16.80	547.140	546.240	545.990			1.150			
	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	1.050	3.297	6.437	9.734
	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	0.471	0.785
	Item No. : 11 Transportation of earth Transportation charges							1.520	3.040	4.559
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation(A)=</b>							3.611		
	<b>Deduction</b>									
	Brick work	1		0.785	1.200	1.200	0.900	1.017		
	soling							0.000		
	PCC	1		0.785	1.600	1.600	0.250	0.502		
	Murrum bedding							0.000		
	<b>Total (B)</b>							1.520		
		Net Qty = A - B					2.091		4.182	6.274
	SVC4									
	CH22.70	547.210	546.310	546.060			1.150			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc									
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.050	3.297	9.734	13.031
	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	0.785	1.099
	Item No. : 11 Transportation of earth Transportation charges							1.520	4.559	6.079
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation(A)=</b>							3.611		
	<b>Deduction</b>									
	Brick work	1		0.785	1.200	1.200	0.900	1.017		
	soling							0.000		
	PCC	1		0.785	1.600	1.600	0.250	0.502		
	Murrum bedding							0.000		
	<b>Total (B)</b>							1.520		
		Net Qty = A - B					2.091		6.274	8.365
	SVC5									
	CH28.60	547.090	546.390	546.140			0.950			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc									
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.850	2.669	13.031	15.700
	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	1.099	1.413



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Sal Vrundavan Colony-04- 200mm RCCChamber-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. : 11 Transportation of earth Transportation charges							1.294		6.079	7.373
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>2.983</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.700	0.791			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							<b>1.294</b>			
		<b>Net Qty = A - B</b>									
	<b>SVC6</b>							<b>1.689</b>		<b>8.365</b>	<b>10.054</b>
	CH35.50	547.140	546.440	546.190			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.850	2.669		15.700	18.369
	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		1.413	1.727
	Item No. : 11 Transportation of earth Transportation charges							1.294		7.373	8.668
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>2.983</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.700	0.791			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							<b>1.294</b>			
		<b>Net Qty = A - B</b>									
	<b>SVC7</b>							<b>1.689</b>		<b>10.054</b>	<b>11.744</b>
	CH42.40	547.290	546.490	546.240			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983		18.369	21.352
	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		1.727	2.041
	Item No. : 11 Transportation of earth Transportation charges							1.407		8.666	10.073
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.297</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.800	0.904			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							<b>1.407</b>			
		<b>Net Qty = A - B</b>									
	<b>SVC8</b>							<b>1.890</b>		<b>11.744</b>	<b>13.634</b>



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Sal Vrundavan Colony 04- 200mm RCC Chamber-MB

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH49.30	547.390	546.590	546.340			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983	21.352	24.335	
	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	2.041	2.355	
	Item No. 11 Transportation of earth Transportation charges							1.407	10.073	11.480	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.297</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.800	0.904			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.407</b>			
								<b>Net Qty = A - B</b>	<b>13.634</b>	<b>15.524</b>	
	SVC9										
	CH56.20	547.470	546.670	546.420			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983	24.335	27.318	
	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	2.355	2.669	
	Item No. 11 Transportation of earth Transportation charges							1.407	11.480	12.887	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.297</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.800	0.904			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.407</b>			
								<b>Net Qty = A - B</b>	<b>15.524</b>	<b>17.414</b>	
	SVC10										
	CH63.10	547.540	546.740	546.490			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983	27.318	30.301	
	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	2.669	2.983	
	Item No. 11 Transportation of earth Transportation charges							1.407	12.887	14.293	
	Item No. 30 :- Refilling the excavated trenches ...										



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# AURANGABAD MUNICIPAL CORPORATION

(From No.52)

## Measurement Book

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

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Sal Vrundavan Colony 04- 200mm RCC Chamber-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							
	<b>Total Excavation(A)=</b>							3.297			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.800	0.904			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							1.407			
		<b>Net Qty = A - B</b>						<b>1.890</b>			
	<b>SVC11</b>								17.414	19.305	
	<b>CH70.00</b>	547.290	546.790	546.540			0.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.650	2.041	30.301	32.342	
	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	2.983	3.297	
	Item No. : 11 Transportation of earth Transportation charges							1.068	14.293	15.361	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							2.355			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.500	0.565			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							1.068			
		<b>Net Qty = A - B</b>						<b>1.287</b>	19.305	20.592	
	<b>SVC12</b>										
	<b>CH75.90</b>	547.390	546.890	546.640			0.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.650	2.041	32.342	34.383	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000	0.314	0.314	
	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	3.297	3.611	
	Item No. : 11 Transportation of earth Transportation charges							1.068	15.361	16.428	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							2.355			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.500	0.565			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							1.068			
		<b>Net Qty = A - B</b>						<b>1.287</b>	20.592	21.880	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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

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

SR NO	MH NO	CHAINAGE	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm
			No				
			GL	IL	DEPTH		
<b>14th RA BILL MEASURMENTS OF CHAMBER</b>							
<b>Sai Vrundavan Colony-04</b>							
Sai Vrundavan Colony-04- 200mm RCC Chamber detail							
Date							
Mea							
rem							
1							
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	SVC1	CH0.000	547.080	546.180	0.900	1.500	-0.600 ✓
2	SVC2	CH10.900	547.080	546.180	0.900	1.500	-0.600 ✓
3	SVC3	CH16.800	547.140	546.240	0.900	1.500	-0.600 ✓
4	SVC4	CH22.700	547.210	546.310	0.900	1.500	-0.600 ✓
5	SVC5	CH28.600	547.090	546.390	0.700	1.500	-0.800 ✓
6	SVC6	CH35.500	547.140	546.440	0.700	1.500	-0.800 ✓
7	SVC7	CH42.400	547.290	546.490	0.800	1.500	-0.700 ✓
8	SVC8	CH49.300	547.390	546.590	0.800	1.500	-0.700 ✓
9	SVC9	CH56.200	547.470	546.670	0.800	1.500	-0.700 ✓
10	SVC10	CH63.100	547.540	546.740	0.800	1.500	-0.700 ✓
11	SVC11	CH70.000	547.290	546.790	0.500	1.500	-1.000 ✓
12	SVC12	CH75.900	547.390	546.890	0.500	1.500	-1.000 ✓
						-8.800 ✓	-29.333 ✓





# 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 (RP/DI) pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- **116**  
Page No. :-

**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

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Sai Vrundavan Colony-04- 200mm RCCPCC Work

<b>12th R A BILL MEASUREMENTS</b>									
<b>Sai Vrundavan Colony-04</b>									
Date	Particulars of work	DETAILS				Content of arrears	Last measurement		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
<b>PCC Work done Between SVC2 to SVC5</b>									
	<b>Extra Item :5(b) - Providing &amp; Casting M15 Grade PCC for manhole etc complete.</b>								
	PCC	1	18.100	0.820	0.100	1.484		0.000	1.484



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# AURANGABAD MUNICIPAL CORPORATION

(From No.52)

## Measurement Book

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

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

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

Date of Measurement		11th R.A BILL MEASUREMENTS															Total up to Date											
1		Branch Sewer at "Sai Vrundavan Colony-04"															to											
SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7		ITEM 11		ITEM 30		ITEM 35		EIRL 2		EIRL 2.a		EIRL 5		EIRL 9.3		EIRL 9.4			
			0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	Full Rate	Rebate	b	200mm	200mm	200mm	200mm	200mm	200mm	200mm	
1	For Pipe		38.618	0.730	4.055	8.840	11.700	31.703	0.126								12.000	(29.333)	1.484									66.000
2	For Manhole		34.383	0.314	3.611		16.428	21.880																				
	<b>Total</b>		<b>73.001</b>	<b>1.044</b>	<b>7.666</b>	<b>8.840</b>	<b>28.128</b>	<b>53.582</b>	<b>0.126</b>								<b>12.000</b>	<b>-29.333</b>	<b>1.484</b>								<b>66.000</b>	





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Silk Mill Colony 300mm

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### 12th RA Bill Measurements Pipe Silk Mill Colony

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	<b>RCC PIPE - 250 mm Dia (K-Branch Silk Mill Colony)</b>										
	<b>Width of Trench -</b>										
	For Lift 0 to 1.50m- 0.250+0.08+0.08+0.5=0.91m										
	For Lift 1.5 to 3.00m- 0.250+0.08+0.08+0.5+0.4=1.31 m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.08+0.08+0.4+0.4=1.71m										
	<b>KSMC-14 to KSMC-14.1</b>	<b>Branch Silk Mill Colony (CH-245.05, MH No. KSMC-14)</b>									
	<b>CH0.00</b>	554.450	553.030	552.830		1.620	1.605				
	<b>CH3.60</b>	554.470	553.080	552.880		1.590					
	<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			1.500	1.310	0.745	1.464	0.000	1.464	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.500	1.310	0.560	1.100	0.000	1.100	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.500	1.310	0.195	0.383	0.000	0.383	
	(b) For Lift 1.5m to 3.0m	1			1.500	0.910	0.105	0.143	0.000	0.143	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.500	0.910	0.100	0.137	0.000	0.137	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							0.265	0.000	0.265	
	<b>Extra Item 9.4 (b) :-</b> Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			2.500			2.500		2.500	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							3.091			
	<b>Deduction</b>										
	pipe area	1		0.785	1.500	0.330	0.330	0.128			
	Murrum bedding							0.137			
								0.265			
								<b>Net Qty = A - B</b>	2.826	0.000	2.826
	<b>KSMC-14.1 to KSMC-14.2</b>										
	<b>CH3.60</b>	554.470	553.080	552.880		1.590	1.605				
	<b>CH12.20</b>	554.620	553.200	553.000		1.620					
	<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			6.600	1.310	0.745	6.441	1.464	7.905	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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Silk Mill Colony 300mm

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	1.310	0.187	2.229		7.011	9.240
	(b) For Lift 1.5m to 3.0m	1			9.100	0.910	0.063	0.522		1.627	2.149
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.100	0.910	0.100	0.828		2.166	2.994
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.606		4.200	5.806
	Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			10.000			10.000		27.500	37.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>18.403</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	9.100	0.330	0.330	0.778			
	Murum bedding							0.828			
								<b>1.606</b>			
	<b>Net Qty = A - B</b>							<b>16.797</b>		<b>44.194</b>	<b>60.991</b>
	<b>KSMC-14.5 to KSMC-14.6</b>										
	CH43.00	555.380	554.005	553.805			1.575				
	CH54.10	555.510	554.110	553.910			1.600	1.588			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			9.100	1.310	0.678	8.082		30.081	38.163
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	1.310	0.660	7.868		25.328	33.195
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.100	1.310	0.162	1.931		9.240	11.172
	(b) For Lift 1.5m to 3.0m	1			9.100	0.910	0.088	0.729		2.149	2.878
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			9.100	0.910	0.100	0.828		2.994	3.822
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.606		5.806	7.412
	Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			10.000			10.000		37.500	47.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>18.610</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	9.100	0.330	0.330	0.778			
	Murum bedding							0.828			
								<b>1.606</b>			
	<b>Net Qty = A - B</b>							<b>17.004</b>		<b>60.991</b>	<b>77.995</b>



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Silk Mill Colony 300mm

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>KSMC-14.6 to KSMC-14.7</b>										
	CH54.10	555.510	554.110	553.910			1.600	1.623			
	CH67.70	555.755	554.310	554.110			1.645				
	<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			11.600	1.310	0.713	10.835	38.163	48.998	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	1.310	0.660	10.029	33.195	43.225	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	1.310	0.127	1.930	11.172	13.101	
	(b) For Lift 1.5m to 3.0m	1			11.600	0.910	0.123	1.298	2.878	4.176	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.600	0.910	0.100	1.056	3.822	4.878	
	<b>Item No. 11</b> Transportation of earth Transportation charges including loading & unloading							2.047	7.412	9.460	
	<b>Extra Item 9.4 (b) :-</b> Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			12.500			12.500	47.500	60.000	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>24.092</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	11.600	0.330	0.330	0.992			
	Murrum bedding							1.056			
								2.047			
	<b>Net Qty = A - B</b>							<b>22.045</b>	<b>77.995</b>	<b>100.040</b>	
	<b>KSMC-14.7 to KSMC-14.8</b>										
	CH67.70	555.755	554.310	554.110			1.645	2.003			
	CH81.30	556.600	554.440	554.240			2.360				
	<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			11.600	1.310	1.093	16.609	48.998	65.607	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	1.310	0.407	6.185	43.225	49.410	
	(b) For Lift 1.5m to 3.0m	1			11.600	0.910	0.253	2.671	0.000	2.671	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			11.600	0.910	0.250	2.639	4.176	6.815	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.600	0.910	0.100	1.056	4.878	5.933	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Silk Mill Colony 300mm

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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B		D	Page	
		GL	IL	EX.L						
	<b>KSMC-14.9 to KSMC-14.10</b>									
	CH87.40	556.160	554.660	554.460			1.700			
	CH96.00	556.320	554.780	554.580			1.740	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			6.600	1.310	0.810	7.003	71.623	78.626
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			6.600	1.310	0.660	5.706	51.451	57.157
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			6.600	1.310	0.030	0.259	13.101	13.361
	(b) For Lift 1.5m to 3.0m	1			6.600	0.910	0.220	1.321	7.748	9.069
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.600	0.910	0.100	0.601	6.306	6.907
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.165	12.231	13.395
	Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			7.500			7.500	77.500	85.000
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation=</b>							14.290		
	<b>Deduction</b>									
	pipe area	1		0.785	6.600	0.330	0.330	0.564		
	Murrum bedding							0.601		
								1.165		
								13.126	135.407	148.532
	<b>KSMC-14.10 to KSMC-14.11</b>									
	CH96.00	556.320	554.780	554.580			1.740	1.720		
	CH102.10	556.340	554.840	554.640			1.700			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			4.100	1.310	0.810	4.351	78.626	82.976
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			4.100	1.310	0.660	3.545	57.157	60.702
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			4.100	1.310	0.030	0.161	13.361	13.522
	(b) For Lift 1.5m to 3.0m	1			4.100	0.910	0.220	0.821	9.069	9.890
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.100	0.910	0.100	0.373	6.907	7.280



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Silk Mill Colony 300mm

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.724		13.395	14.119
	Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			5.000			5.000		85.000	90.000
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>8.877</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	4.100	0.330	0.330	0.350			
	Murram bedding							0.373			
								0.724			
								<b>8.154</b>		<b>148.532</b>	<b>156.686</b>
	<b>Net Qty = A - B</b>										
	<b>KSMC-14.11 to KSMC-14.12</b>										
	CH102.10	556.340	554.840	554.640			1.700	1.750			
	CH115.70	556.530	554.930	554.730			1.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	1.310	0.840	12.765		82.976	95.741
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	1.310	0.660	10.029		60.702	70.731
	(b) For Lift 1.5m to 3.0m	1			11.600	0.910	0.000	0.000		3.715	3.715
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	1.310	0.000	0.000		13.522	13.522
	(b) For Lift 1.5m to 3.0m	1			11.600	0.910	0.250	2.639		9.890	12.529
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.600	0.910	0.100	1.056		7.280	8.336
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.047		14.119	16.166
	Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			12.500			12.500		90.000	102.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>25.433</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	11.600	0.330	0.330	0.992			
	Murram bedding							1.056			
								2.047			
								<b>23.386</b>		<b>156.686</b>	<b>180.072</b>
	<b>Net Qty = A - B</b>										



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Page No. :-

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

Silk Mill Colony Connection

Page 1 of 1

### 12th RA Bill Measurments Silk Mill Colony PVC Pipe (Property Connection Line)

Sr. No.	Manhole No.	Chainage	No. of Connction	Dia of Pipe	Length in Mtr	Depth
1	KSMC 14.1	CH3.60	1	160mm	1.50	0.600
2	KSMC 14.2	CH12.20	1	160mm	1.00	0.600
			2	160mm	0.90	0.600
3	KSMC 14.3	CH20.80	1	160mm	1.50	0.600
			2	160mm	1.50	0.600
			3	160mm	1.00	0.600
4	KSMC 14.4	CH31.90	1	160mm	1.50	0.600
			2	160mm	1.00	0.600
			3	160mm	1.00	0.600
			4	160mm	1.00	0.600
5	KSMC 14.5	CH43.00	1	160mm	3.40	0.450
			2	160mm	1.00	0.600
			3	160mm	0.50	0.600
			4	160mm	0.70	0.600
6	KSMC 14.6	CH54.10	1	160mm	5.00	0.600
			2	160mm	1.40	0.600
7	KSMC 14.7	CH67.70	1	160mm	1.00	0.600
			2	160mm	1.00	0.500
			3	160mm	1.00	0.600
8	KSMC 14.8	CH81.30	1	160mm	1.50	0.600
			2	160mm	0.50	0.600
			3	160mm	1.00	0.600
9	KSMC 14.9	CH87.40	1	160mm	1.20	0.600
			2	160mm	1.40	0.600
10	KSMC 14.10	CH96.00	1	160mm	2.00	0.500
11	KSMC 14.11	CH102.10	1	160mm	0.70	0.600
			2	160mm	2.50	0.600
			3	160mm	1.00	0.450
			4	160mm	0.70	0.400
12	KSMC 14.12	CH115.70	1	160mm	1.00	0.600
			2	160mm	1.20	0.600
			3	160mm	0.90	0.600
			4	160mm	0.70	0.600
<b>Total Length</b>					<b>43.20</b>	<b>0.500</b>





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Page No. :- 127

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

Silk Mill Colony Connection Exc.

Page 1 of 1

### 14th RA Bill Measurements Silk Mill Colony PVC Pipe (Connection Line)

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>PVC PIPE - 160 mm Dia</b>										
	Width of Trench - For Lift 0 to 1.50m- 0.160+0.5=0.660m										
	For Lift 1.5 to 3.00m- 0.160+0.5+0.4= 1.060m										
	For Lift 3.0 to 4.5m- 0.160+0.5+0.4+0.4=1.460m										
	<b>KSMC 14.1 to KSMC 14.12</b>										
	Average Depth of Excavation						0.500				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			43.20	0.660	0.500	14.256	0.000	14.256	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			43.20	0.660	0.100	2.851	0.000	2.851	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.719	0.000	3.719	
	Extra Item No.9.6 :- (b) Lowering & Laying of PVC pipe of 160mm Dia	1			43.20			43.200	0.000	43.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>14.256</b>			
	Deduction of 160mm dia pipe pipe area	1.00		0.785	43.20	0.160	0.160	0.87			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.85			
								3.72			
	<b>Net Qty = A - B</b>							<b>10.54</b>	<b>0.000</b>	<b>10.537</b>	



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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

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

Silk Mill Colony 0.9 MH Exc.

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>5.244</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.160	1.160	1.420	1.500			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	<b>Total (B)</b>						<b>1.978</b>				
							<b>Net Qty = A - B</b>	<b>3.266</b>	<b>3.204</b>	<b>6.478</b>	
	<b>KSMC 14.3</b>										
	CH20.80	554.800	553.460	553.210			1.590				
	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	0.720	2.261	4.679	6.939	
	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	0.560	1.758	3.517	5.275	
	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	0.220	0.691	1.225	1.915	
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.090	0.283	0.973	1.256	
	Item No. : 11 Transportation of earth Transportation charges							1.893	3.923	5.816	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>4.993</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.160	1.160	1.340	1.415			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	<b>Total (B)</b>						<b>1.893</b>				
							<b>Net Qty = A - B</b>	<b>3.100</b>	<b>6.470</b>	<b>9.570</b>	
	<b>KSMC 14.4</b>										
	CH31.90	555.130	553.780	553.530			1.600				
	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	0.685	2.151	6.939	9.090	
	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	0.560	1.758	5.275	7.034	
	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	0.255	0.801	1.915	2.716	
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.100	0.314	1.256	1.570	



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