



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

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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							
	pipe area	1.00		0.785	13.35	0.315	0.315	1.04			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.09			
								2.13			
	<b>Net Qty = A - B</b>							<b>32.82</b>	<b>827.04</b>	<b>859.87</b>	
<b>20/10/16</b>	<b>E 19.32.18</b>										
	CH450.80	569.825	567.495	567.395			2.430	2.425			
	CH464.00	569.855	567.535	567.435			2.420				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.9	1.215	1.500	19.865	726.424	746.289	
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.500	4.442	56.361	60.803	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			10.9	0.815	0.425	3.775	125.765	129.541	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.5	0.815	0.100	0.937	34.177	35.114	
	Item No. 11 Transportation of earth Transportation charges including loading & unloading							1.833	66.841	68.674	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.00			12.000	428.600	440.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>28.082</b>			
	<b>Deduction of 315mm dia pipe</b>										
	pipe area	1.00		0.785	11.50	0.315	0.315	0.90			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.94			
								1.83			
	<b>Net Qty = A - B</b>							<b>26.25</b>	<b>859.87</b>	<b>886.12</b>	
<b>24/10/16</b>	<b>E 19.32.19</b>										
	CH464.00	569.855	567.635	567.535			2.320	2.320			
	CH468.30	569.895	567.675	567.575			2.320				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.0	1.215	1.500	3.645	746.289	749.934	
	(b) For Lift 1.5m to 3.0m	1			2.0	0.815	0.500	0.815	60.803	61.618	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			2.0	0.815	0.320	0.522	129.541	130.062	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.6	0.815	0.100	0.212	35.114	35.326	



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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

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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	EXL							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.414		68.674	69.088
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			3.10			3.100		440.600	443.700
	Item No. 30 :- Refilling the excavated trenches ...							4.982			
	Total Excavation=										
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	2.60	0.315	0.315	0.20			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.21			
								0.41			
	Net Qty = A - B							4.57		886.12	890.68
	DWC - 250mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.5=0.750m										
	For Lift 1.5 to 3.00m- 0.250+0.5+0.4=1.150m										
	For Lift 3.0 to 4.5m, 0.250+0.5+0.4+0.4=1.550m										
11/09/16	E 19.32.06 TO E 19.32.06.01										
	CH0.00	567.435	565.805	565.705			1.730	1.700			
	CH15.80	567.425	565.855	565.755			1.670				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.0	1.150	1.500	25.789		749.934	775.723
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			15.0	0.750	0.200	2.243		130.062	132.305
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.0	0.750	0.100	1.121		35.326	36.447
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.855		69.088	70.943
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			15.20			15.200		0.000	15.200
	Item No. 30 :- Refilling the excavated trenches ...							28.031			
	Total Excavation=										
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	14.950	0.250	0.250	0.733			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.121			
								1.855			
	Net Qty = A - B							26.177		890.685	916.861
11/09/16											
	CH15.80	567.435	565.855	565.755			1.680	1.660			
	CH31.60	567.445	565.905	565.805			1.640				



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## Measurement Book

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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							
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	1.150	0.315	0.315	0.090			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.094			
								0.183			
	* Net Qty = A - B							2.006	942.073	944.079	
23/09/16	E 19.32.04 TO E 19.32.04.01										
	CH0.00	567.145	565.375	565.275			1.870				
	CH2.20	566.875	565.390	565.290			1.585	1.728			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			1.4	1.215	1.500	2.460	799.721	802.181	
	(b) For Lift 1.5m to 3.0m	1			1.4	0.815	0.228	0.251	61.712	61.963	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.4	0.815	0.100	0.110	37.640	37.750	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.215	72.944	73.159	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			1.60			1.600	445.100	446.700	
	Item No. 30 :- Refilling the excavated trenches*										
	Total Excavation=							2.711			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	1.350	0.315	0.315	0.105			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.110			
								0.215			
	* Net Qty = A - B							2.496	445.100	447.596	
24/09/16	E 19.32.06 TO E 19.32.06.01										
	CH0.00	567.435	566.035	565.935			1.500				
	CH3.50	567.445	566.050	565.950			1.495	1.498			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			2.7	0.815	1.498	3.235	802.181	805.417	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.7	0.815	0.100	0.216	37.750	37.966	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.422	73.159	73.581	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			2.90			2.900	446.700	449.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.235			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	2.650	0.315	0.315	0.206			
	soling							0.000			



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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D		Page	Quantity	
	PCC							0.000			
	Murram bedding							0.216			
								0.422			
								<b>2.813</b>			
	<b>DWC - 200 mm Dia</b>								446.700	449.513	
	<b>Width of Trench -</b>										
	For Lift 0 to 1.50m- 0.200+0.5=0.700m <sup>e</sup>										
	For Lift 1.5 to 3.00m- 0.200+0.5+0.4=1.10m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.500m										
27/09/16	E 19.32.06.01 TO E 19.32.06.01A										
	CH0.00	567.445	566.345	566.245			1.200	1.198			
	CH2.50	567.445	566.350	566.250				1.195			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.7	0.700	1.198	1.384	805.417	806.800	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.7	0.700	0.100	0.116	37.966	38.081	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.167	73.581	73.749	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			1.90			1.900	0.000	1.900	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>1.384</b>			
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1.000		0.785	1.650	0.200	0.200	0.052			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.116			
								<b>0.167</b>			
	<b>Net Qty = A - B</b>							<b>1.216</b>	<b>449.513</b>	<b>450.729</b>	
27/09/16	E 19.32.08 TO E 19.32.08.01										
	CH0.00	567.905	566.415	566.315			1.590	1.445			
	CH3.50	567.625	566.425	566.325				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			2.7	0.750	1.445	2.872	806.800	809.672	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.7	0.750	0.100	0.199	38.081	38.280	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.329	73.749	74.077	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			2.90			2.900	30.100	33.000	
	Item No. 30 :- Refilling the excavated trenches ...										



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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>Total Excavation=</b>										2.872
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.000		0.785	2.650	0.250	0.250	0.130			
	soling							0.000			
	PCC							0.199			
	Murram bedding							0.329			
								2.543	450.729		453.272
	<b>Net Qty = A - B</b>										
27/09/16	<b>E 19.32.10 TO E 19.32.10.01</b>										
	CH0.00	568.355	567.285	567.185			1.170	1.133			
	CH2.70	568.290	567.295	567.195				1.095			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			1.9	0.750	1.133	1.572		809.672	811.244
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.9	0.750	0.100	0.139		38.280	38.419
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.230		74.077	74.307
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			2.10			2.100		33.000	35.100
	Item No. 30 :- Refilling the excavated trenches ...							1.572			
	<b>Total Excavation=</b>										
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.000		0.785	1.850	0.250	0.250	0.091			
	soling							0.000			
	PCC							0.139			
	Murram bedding							0.230			
								1.343	453.272		454.615
	<b>Net Qty = A - B</b>										
27/09/16	<b>E 19.32.10 TO E 19.32.10.02</b>										
	CH0.00	568.355	567.285	567.185			1.170	1.130			
	CH2.50	568.285	567.295	567.195				1.090			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			1.7	0.750	1.130	1.398		811.244	812.643
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.7	0.750	0.100	0.124		38.419	38.543
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.205		74.307	74.512
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			1.90			1.900		35.100	37.000
	Item No. 30 :- Refilling the excavated trenches ...							1.398			
	<b>Total Excavation=</b>										
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.000		0.785	1.650	0.250	0.250	0.081			
	soling							0.000			



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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							
	PCC							0.000			
	Murram bedding							0.124			
								0.205			
	Net Qty = A - B							1.194	454.615	455.809	
28/09/16	E 19.32.12 TO E 19.32.12.01										
	CH0.00	568.635	567.285	567.185			1.450	1.380			
	CH2.00	568.505	567.295	567.195			1.310				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			1.2	0.750	1.380	1.190	812.643	813.833	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.2	0.750	0.100	0.086	38.543	38.629	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.143	74.512	74.654	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			1.40			1.400	37.000	38.400	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							1.190			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.000		0.785	1.150	0.250	0.250	0.056			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.086			
								0.143			
	Net Qty = A - B							1.048	455.809	456.856	
28/09/16	E 19.32.12 TO E 19.32.12.02										
	CH0.00	568.635	567.305	567.205			1.430	1.360			
	CH2.20	568.505	567.315	567.215			1.290				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			1.4	0.750	1.360	1.377	813.833	815.210	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.4	0.750	0.100	0.101	38.629	38.730	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.167	74.654	74.822	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			1.60			1.600	38.400	40.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							1.377			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.000		0.785	1.350	0.250	0.250	0.066			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.101			
								0.167			
	Net Qty = A - B							1.210	456.856	458.066	



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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							
28/09/16	E 19.32.14 TO E 19.32.14.01										
	CH0.00	568.935	566.985	566.885			2.050	1.975			
	CH6.00	568.795	566.995	566.895			1.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.2	0.750	1.500	5.794	815.210	821.004	
	(b) For Lift 1.5m to 3.0m	1			5.2	0.750	0.475	1.835	61.963	63.797	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.2	0.750	0.100	0.386	38.730	39.116	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.639	74.822	75.461	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			5.40			5.400	40.000	45.400	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.628			
	Deduction of 250mm dia pipe pipe area	1.000		0.785	5.150	0.250	0.250	0.253			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.386			
								0.639			
	Net Qty = A - B							6.990	458.066	465.056	
29/09/16	E 19.32.16 TO E 19.32.16.01										
	CH0.00	569.575	568.605	568.505			1.070	0.928			
	CH3.50	569.305	568.620	568.520			0.785				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.7	0.750	0.928	1.844	821.004	822.848	
	(b) For Lift 1.5m to 3.0m	1			2.7	0.750	0.000	0.000	63.797	63.797	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.7	0.750	0.000	0.000	21.528	21.528	
	(b) For Lift 1.5m to 3.0m	1			2.7	0.750	0.000	0.000	134.063	134.063	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.7	0.750	0.100	0.199	39.116	39.116	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.329	75.461	75.461	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia										
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			2.90			2.900	45.400	45.400	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia										



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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. :- 037

**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

Bansil Nagar, Measurement 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							
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						1.844				
	Deduction of 250mm dia pipe pipe area	1.000		0.785	2.650	0.250	0.250	0.130			
	soling							0.000			
	PCC							0.199			
	Murrum bedding							0.329			
	<b>Net Qty = A - B</b>							<b>1.516</b>	<b>465.055</b>	<b>466.571</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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Date	Particulars of wrk	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Total Excavation(A)=</b>							8.845			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.880	2.53			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.29			
				<b>Net Qty = A - B</b>				5.56	5.839	11.40	
	<b>E 19.32.03</b>										
	<b>CH62.20</b>	566.795	564.956	564.706			2.089				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.500	6.229	12.458	18.687	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.589	2.446	2.325	4.771	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.232	6.708	9.940	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							8.675			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.839	2.48			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.23			
				<b>Net Qty = A - B</b>				5.44	11.398	16.84	
	<b>E 19.32.04</b>										
	<b>CH99.60</b>	567.145	565.275	565.025			2.120				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.500	6.229	18.687	24.916	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.620	2.575	4.771	7.346	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.273	9.940	13.213	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							8.804			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.870	2.52			



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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 Nakshirawadi (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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Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	soling										
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	<b>Total (B)</b>							3.27			
		<b>Net Qty = A - B</b>								16.841	22.37
	<b>E 19.32.05</b>										
	<b>CH112.80</b>	567.305	565.435	565.185			2.120				
	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	5.290	1.500	6.229	24.916	31.145	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.200	0.831	3.322	4.153	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.420	1.744	7.346	9.090	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.273	13.213	16.486	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							8.804			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.870	2.52			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	<b>Total (B)</b>							3.27			
		<b>Net Qty = A - B</b>								22.371	27.90
	<b>E 19.32.06</b>										
	<b>CH141.20</b>	567.435	565.655	565.405			2.030				
	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	5.290	1.500	6.229	31.145	37.374	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.530	2.201	9.090	11.291	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.152	16.486	19.638	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							8.430			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.780	2.40			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			



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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 Nakshirawadi (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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Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murum bedding									0.00	
	<b>Total (B)</b>									3.15	
		<b>Net Qty = A - B</b>									5.28
	<b>E 19.32.07</b>										
	<b>CH166.70</b>	567.615	566.025	565.775			1.840				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.200	4.983		37.374	42.357
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.300	1.246		0.000	1.246
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.340	1.412		11.291	12.703
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.896		19.638	22.534
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							7.641			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.590	2.14			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	<b>Total (B)</b>							2.90			
		<b>Net Qty = A - B</b>									4.75
	<b>E 19.32.08</b>										
	<b>CH193.60</b>	567.905	566.125	565.875			2.030				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.300	5.398		42.357	47.755
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.200	0.831		1.246	2.076
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.530	2.201		12.703	14.904
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.152		22.534	25.685
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							8.430			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.780	2.40			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	<b>Total (B)</b>							3.15			



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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 from Banewadi to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						5.28	37.925	43.20	
E 19.32.09											
CH214.70		568.225	566.255	566.005			2.220				
	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	5.290	1.400	5.814	47.755	53.569	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.100	0.415	2.076	2.492	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.720	2.990	14.904	17.894	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.408	25.685	29.093	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							9.219			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.970	2.65			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.41			
		Net Qty = A - B						5.81	43.203	49.01	
E 19.32.10											
CH247.70		568.355	566.365	566.115			2.240				
	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	5.290	1.500	6.229	53.569	59.798	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	0.100	0.415	2.492	2.907	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.640	2.658	17.894	20.551	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.435	29.093	32.528	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							9.302			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	1.990	2.68			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.43			
		Net Qty = A - B						5.87	49.014	54.88	



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# AURANGABAD MUNICIPAL CORPORATION.

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## Measurement Book

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Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
E 19.32.11											
CH273.10		568.505	566.495	566.245							
	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	5.290	1.500	6.229	59.798	66.027	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.300	1.246	4.153	5.398	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.460	1.910	20.551	22.462	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.462	32.528	35.990	
	Item No. 30 :- Refilling the excavated trenches ...							9.385			
	<b>Total Excavation(A)=</b>										
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	2.010	2.71			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.46			
					Net Qty = A - B			5.92	54.881	60.80	
E 19.32.12											
CH314.40		568.635	566.635	566.385				2.250			
	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	5.290	1.500	6.229	66.027	72.256	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.150	0.623	5.398	6.021	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.600	2.492	22.462	24.954	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.448	35.990	39.438	
	Item No. 30 :- Refilling the excavated trenches ...							9.343			
	<b>Total Excavation(A)=</b>										
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	2.000	2.69			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.45			
					Net Qty = A - B			5.90	60.805	66.70	



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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 Sewerage Treatment Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewerage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta. Ward

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Bansilal Nagar, Chamber meas.

Date	Particulars of work	DETAILS					Content of area	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
E 19.32.13											
CH324.40		568.785	566.765	566.515			2.270				
	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	5.290	1.500	6.229	72.256	78.485	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.200	0.831	6.021	6.852	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.570	2.367	24.953	27.320	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.475	39.438	42.913	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							9.427			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	2.020	2.72			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.48			
					<b>Net Qty = A - B</b>			5.95	66.700	72.65	
E 19.32.14											
CH358.40		568.935	566.865	566.615			2.320				
	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	5.290	1.500	6.229	78.485	84.714	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.100	0.415	6.852	7.267	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.720	2.990	27.320	30.318	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.542	42.913	46.455	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							9.634			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.31	1.31	2.070	2.79			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							3.54			
					<b>Net Qty = A - B</b>			6.09	72.651	78.74	



PM







# 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. :- 045  
Page No. :-

9 of 10

Bansilal Nagar, Chamber meas.

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.500	6.229	97.172	103.407	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.500	2.076	10.174	12.250	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.730	3.031	36.871	39.903	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							4.095	54.403	58.497	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>11.337</b>			
	<b>Deduction</b>										
	Brick work	1.00			0.785	1.31	1.31	2.480	3.34		
	soling								0.00		
	PCC	1.00			0.785	1.96	1.96	0.25	0.75		
	Murrum bedding								0.00		
	<b>Total (B)</b>							<b>4.09</b>			
					<b>Net Qty = A - B</b>			<b>7.24</b>	<b>92.722</b>	<b>99.96</b>	
	<b>E 19.32.18</b>										
	<b>CH450.80</b>	569.825	567.395	567.145			2.680				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.290	1.500	6.229	103.401	109.630	
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.400	1.661	12.250	13.911	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	5.290	0.780	3.239	39.903	43.142	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							4.027	58.497	62.525	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>11.129</b>			
	<b>Deduction</b>										
	Brick work	1.00			0.785	1.31	1.31	2.430	3.27		
	soling								0.00		
	PCC	1.00			0.785	1.96	1.96	0.25	0.75		
	Murrum bedding								0.00		
	<b>Total (B)</b>							<b>4.03</b>			
					<b>Net Qty = A - B</b>			<b>7.10</b>	<b>99.964</b>	<b>107.44</b>	
	<b>E 19.32.06.01</b>										
	<b>CH31.60</b>	567.445	565.905	565.655			1.790				



TRC

*[Handwritten signature]*