



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone 1 to VI and Zone Sahin 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 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.										
	(b) For Lift 1.5m to 3.0m	1			25.00	1.840	0.900	41.400		1268.281	1309.681
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	1.840	0.100	4.600		1204.155	1208.755
	(c) For Lift 3.0m to 4.5m	1			25.00	1.440	0.300	10.800		146.662	157.462
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			25.00	1.440	0.200	7.200		550.276	557.476
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.00			25.000		527.500	552.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							163.800			
	Deduction										
	pipe area	1		0.785	25.00	0.770	0.770	11.64			
	Murrum bedding							7.20			
	Total = B							18.84			
								Net Qty = A - B			
								144.96		9344.261	9489.225
	CH5415.10	579.720	576.520	576.320							
	CH5438.20	579.900	576.600	576.400			3.400	3.450			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.240	0.600	29.098		2404.684	2433.782
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			21.65	2.240	0.900	43.646		2473.282	2516.928
	(b) For Lift 1.5m to 3.0m	1			21.65	1.840	0.300	11.951		263.339	275.290
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.840	1.200	47.803		1309.681	1357.484
	(c) For Lift 3.0m to 4.5m	1			21.65	1.440	0.150	4.676		51.152	55.828
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			21.65	1.440	0.300	9.353		157.462	166.815
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			22.15	1.440	0.200	6.379		557.476	563.856
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			22.50			22.500		552.500	575.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							146.527			
	Deduction										
	pipe area	1		0.785	21.65	0.770	0.770	10.08			
	Murrum bedding							6.38			
	Total = B							16.46			
								Net Qty = A - B			
								130.07		9489.225	9619.296
	C 108										
	CH5438.20	579.900	576.600	576.400			3.500	3.500			
	CH5476.30	580.050	576.750	576.550			3.500	3.500			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			36.65	2.240	0.550	45.153		2433.782	2478.934



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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	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			36.65	2.240	0.950	77.991		2516.928	2594.920
	(b) For Lift 1.5m to 3.0m	1			36.65	1.840	0.500	33.718		275.290	309.008
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			36.65	1.840	1.000	67.436		1357.484	1424.920
	(c) For Lift 3.0m to 4.5m	1			36.65	1.440	0.150	7.916		55.828	63.745
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			36.65	1.440	0.350	18.472		166.815	185.287
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			37.15	1.440	0.200	10.699		563.856	574.555
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			37.50			37.500		575.000	612.500
	Item No 30 :- Refilling the excavated trenches ...							250.686			
	Total Excavation= A										
	Deduction	1		0.785	36.65	0.770	0.770	17.06			
	pipe area							10.70			
	Murrum bedding							27.76			
	Total = B							222.93		9619.296	9842.225
	CH5476.30	580.050	576.750	576.550			3.500	3.600			
	CH5511.90	580.400	576.900	576.700			3.700				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			34.15	2.240	0.600	45.898		2478.934	2524.832
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			34.15	2.240	0.900	68.846		2594.920	2663.766
	(b) For Lift 1.5m to 3.0m	1			34.15	1.840	0.600	37.702		309.008	346.709
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			34.15	1.840	0.900	56.552		1424.920	1481.473
	(c) For Lift 3.0m to 4.5m	1			34.15	1.440	0.200	9.835		63.745	73.580
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			34.15	1.440	0.400	19.670		185.287	204.957
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			34.65	1.440	0.200	9.979		574.555	584.534
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			35.00			35.000		612.500	647.500
	Item No 30 :- Refilling the excavated trenches ...							238.504			
	Total Excavation= A										
	Deduction	1		0.785	34.15	0.770	0.770	15.89			
	pipe area							9.98			
	Murrum bedding							25.87			
	Total = B							212.63		9842.225	10054.855
	C 109						3.700	3.350			
	CH5511.90	580.400	576.900	576.700			3.000				
	CH5537.50	579.800	577.000	576.800							



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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1 1/2" C Main Sewer 1-600mm-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. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.240	0.500	27.048		2524.832	2551.880
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			24.15	2.240	1.000	54.096		2663.766	2717.862
	(b) For Lift 1.5m to 3.0m	1			24.15	1.840	0.450	19.996		346.709	366.706
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.15	1.840	1.050	46.658		1481.473	1528.131
	(c) For Lift 3.0m to 4.5m	1			24.15	1.440	0.350	12.172		73.580	85.752
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			24.65	1.440	0.200	7.099		584.534	591.633
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.00			25.000		647.500	672.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							159.970			
	Deduction										
	pipe area	1									
	Murrum bedding			0.785	24.15	0.770	0.770	11.24			
	Total = B							7.10			
								18.34			
								Net Qty = A - B			
								141.63		10054.855	10196.486
	CH5537.50	579.800	577.000	576.800							
	CH5553.10	579.660	577.060	576.860			3.000	2.900			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			14.15	1.840	0.600	15.622		2551.880	2567.502
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			14.15	1.840	0.900	23.432		2717.862	2741.294
	(b) For Lift 1.5m to 3.0m	1			14.15	1.440	0.200	4.075		366.706	370.781
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.15	1.440	1.200	24.451		1528.131	1552.582
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			14.65	1.440	0.200	4.219		591.633	595.852
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		672.500	687.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							67.580			
	Deduction										
	pipe area	1									
	Murrum bedding			0.785	14.15	0.770	0.770	6.59			
	Total = B							4.22			
								10.80			
								Net Qty = A - B			
								56.78		10196.486	10253.261
	C 110										
	CH5553.10	579.660	577.060	576.860							
	CH5591.20	579.900	577.200	577.000			2.800	2.850			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			36.65	1.840	0.600	40.462		2567.502	2607.963



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AURANGABAD MUNICIPAL CORPORATION.

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Measurement Book

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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. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			36.65	1.840	0.900	60.692		2741.294	2801.987
	(b) For Lift 1.5m to 3.0m	1			36.65	1.440	0.300	15.833		370.781	386.614
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			36.65	1.440	1.050	55.415		1552.582	1607.997
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			37.15	1.440	0.200	10.699		595.852	606.552
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			37.50			37.500		687.500	725.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							172.402			
	Deduction										
	pipe area	1		0.785	36.65	0.770	0.770	17.06			
	Murum bedding							10.70			
	Total = B							27.76			
	Net Qty = A - B							144.64		10253.261	10397.906
	CH5591.20	579.900	577.200	577.000				2.900			
	CH5621.80	579.920	577.320	577.120				2.800		2.850	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	1.840	0.550	29.500		2607.963	2637.463
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			29.15	1.840	0.950	50.954		2801.987	2852.941
	(b) For Lift 1.5m to 3.0m	1			29.15	1.440	0.200	8.395		386.614	395.009
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			29.15	1.440	1.150	48.272		1607.997	1656.269
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			29.65	1.440	0.200	8.539		606.552	615.091
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			30.00			30.000		725.000	755.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							137.122			
	Deduction										
	pipe area	1		0.785	29.15	0.770	0.770	13.57			
	Murum bedding							8.54			
	Total = B							22.11			
	Net Qty = A - B							115.02		10397.906	10512.921
	C 111										
	CH5621.80	579.920	577.320	577.120				2.800			
	CH5647.40	580.020	577.420	577.220				2.800		2.800	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	1.840	0.500	22.218		2637.463	2659.681
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			24.15	1.840	1.000	44.436		2852.941	2897.377
	(b) For Lift 1.5m to 3.0m	1			24.15	1.440	0.100	3.478		395.009	398.486



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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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.15	1.440	1.200	41.731		1656.269	1698.000
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			24.65	1.440	0.200	7.099		615.091	622.190
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.00			25.000		755.000	780.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							111.863			
	Deduction										
	pipe area	1		0.785	24.15	0.770	0.770	11.24			
	Murrum bedding							7.10			
	Total = B							18.34			
					Net Qty = A - B			93.52		10512.921	10606.444
	CH5647.40	580.020	577.420	577.220			2.800	2.850			
	CH5668.00	580.200	577.500	577.300			2.900				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	0.400	14.094		2659.681	2673.775
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	1.100	38.760		2897.377	2936.137
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.100	2.758		398.486	401.244
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	1.250	34.470		1698.000	1732.470
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.65	1.440	0.200	5.659		622.190	627.849
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000		780.000	800.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							90.082			
	Deduction										
	pipe area	1		0.785	19.15	0.770	0.770	8.91			
	Murrum bedding							5.66			
	Total = B							14.57			
					Net Qty = A - B			75.51		10606.444	10681.954
	C112										
	CH5668.00	580.200	577.500	577.300			2.900	2.600			
	CH5681.10	579.650	577.550	577.350			2.300				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			11.65	1.840	0.600	12.862		2673.775	2686.637
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			11.65	1.840	0.300	6.431		2936.137	2942.567
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.65	1.840	0.600	12.862		999.115	1011.977
	(b) For Lift 1.5m to 3.0m	1			11.65	1.440	1.100	18.454		1732.470	1750.924
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			12.15	1.440	0.200	3.499		627.849	631.348



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AURANGABAD MUNICIPAL CORPORATION.

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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 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		800.000	812.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							50.608			
	Deduction										
	pipe area	1		0.785	11.65	0.770	0.770	5.42			
	Murum bedding							3.50			
	Total = B							8.92			
								41.69		10681.954	10723.640
	CH5681.10	579.650	577.550	577.350			2.300	2.350			
	CH5711.10	579.870	577.670	577.470			2.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			30.00	1.840	0.200	11.040		2686.637	2697.677
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.00	1.840	0.100	5.520		1011.977	1017.497
	Item No. 4:- Excavation for foundation, pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.00	1.840	1.200	66.240		108.396	174.636
	(b) For Lift 1.5m to 3.0m	1			30.00	1.440	0.750	32.400		1208.755	1241.155
	Item No. 5:- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			30.00	1.440	0.100	4.320		2081.692	2086.012
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			30.00	1.440	0.200	8.640		631.348	639.988
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			30.00			30.000		812.500	842.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							119.520			
	Deduction										
	pipe area	1		0.785	30.00	0.770	0.770	13.96			
	Murum bedding							8.64			
	Total = B							22.60			
								96.92		10723.640	10820.557
	CH5711.10	579.870	577.670	577.470			2.400	2.500			
	CH5741.10	580.190	577.790	577.590			2.600				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			30.00	1.840	0.200	11.040		2697.677	2708.717
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.00	1.840	0.100	5.520		1017.497	1023.017
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.00	1.840	1.200	66.240		174.636	240.876
	(b) For Lift 1.5m to 3.0m	1			30.00	1.440	0.100	4.320		1241.155	1245.475
	Item No. 5:- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			30.00	1.440	0.900	38.880		2086.012	2124.892



S. S. Dyanag

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.

Contractor: M/s. Khairi Infrastructure Pvt. Ltd. & GFCPI (Joint Venture)

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11b C Main Sewer1-600mm-MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			30.00	1.440	0.200	8.640		639.988	648.628
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			30.00			30.000		842.500	872.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							126.000			
	Deduction										
	pipe area	1		0.785	30.00	0.770	0.770	13.96			
	Murum bedding							8.64			
	Total = B							22.60			
								Net Qty = A - B		10820.557	10923.955
	CH5741.10	580.190	577.790	577.590				2.600			
	CH5769.20	580.200	577.900	577.700				2.500			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			26.65	1.840	0.200	9.807		2708.717	2718.524
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			26.65	1.840	0.000	0.000		2942.567	2942.567
	(b) For Lift 1.5m to 3.0m	1			26.65	1.440	0.000	0.000		401.244	401.244
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.65	1.840	0.100	4.904		1023.017	1027.920
	(b) For Lift 1.5m to 3.0m	1			26.65	1.440	0.000	0.000		1750.924	1750.924
	(c) For Lift 3.0m to 4.5m	1			26.65	1.440	0.000	0.000		85.752	85.752
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			26.65	1.840	1.200	58.843		240.876	299.719
	(b) For Lift 1.5m to 3.0m	1			26.65	1.440	0.100	3.838		1245.475	1249.313
	(c) For Lift 3.0m to 4.5m	1			26.65	1.440	0.000	0.000		204.957	204.957
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.65	1.440	0.950	36.457		2124.892	2161.349
	(c) For Lift 3.0m to 4.5m	1			26.65	1.440	0.000	0.000		678.488	678.488
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			27.15	1.440	0.200	7.819		648.628	656.448
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			27.50			27.500		872.500	900.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							113.849			
	Deduction										
	pipe area	1		0.785	26.65	0.770	0.770	12.40			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.82			
	Total = B							20.22			
								Net Qty = A - B		93.63	10923.955
										11017.581	



S. J. J. J.



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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11th C Main Sewer 1 800mm-MB Kalkat Gate

17th RA BILL MEASUREMENTS

SEWER "C"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	C-800mm Dia at Times Colony										
	Width of trench- For Bottom Lift 0.00-1.50m- 0.8+0.19+0.19+0.5=1.68m										
	From Bottom Lift 1.50-3.00m- 0.8+0.19+0.19+0.5+0.4=2.08m										
	From Bottom Lift 3.00-4.50m- 0.8+0.19+0.19+0.5+0.4+0.4 = 2.48m										
	From Bottom Lift 4.50-6.0m- 0.8+0.19+0.19+0.5+0.4+0.4+0.4 = 2.88m										
	CKG 3						3.395	3.535			
15/08/2016	CH150.00	574.060	570.960	570.665			3.395	3.535			
	CH185.60	574.480	571.100	570.805			3.675				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			34.15	2.480	0.500	42.346		2718.524	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			34.15	2.480	1.000	84.692		2942.567	
	(b) For Lift 1.5m to 3.0m	1			34.15	2.080	0.600	42.619		401.244	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			34.15	2.080	0.300	21.310		1750.924	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			34.15	2.080	0.600	42.619		1249.313	
	(c) For Lift 3.0m to 4.5m	1			34.15	1.680	0.535	30.694		204.957	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			34.65	1.680	0.200	11.642		656.448	
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia										
	(a) For Lift 0 to 1.5m	1			35.00			35.000		0.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A =							264.280			
	Deduction										
	pipe area	1.00		0.785	34.15	0.990	0.990	26.27			
	Murrum bedding							11.64			
	Total = B							37.92			
	Net Qty = A - B							226.36	11017.581	11243.944	
	CH185.60	574.480	571.100	570.805			3.675	3.885			
	CH213.70	575.010	571.210	570.915			4.095				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			26.65	2.480	0.550	36.351		2760.870	



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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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1st C Main Sewer 1800mm-MB Katkat Gate

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. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			26.65	2.480	0.950	62.787			
	(b) For Lift 1.5m to 3.0m	1			26.65	2.080	0.800	44.346	3027.259	3090.047	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.								443.863	488.209	
	(b) For Lift 1.5m to 3.0m	1			26.65	2.080	0.700	38.802			
	(c) For Lift 3.0m to 4.5m	1			26.65	1.680	0.100	4.477	1772.233	1811.036	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.								85.752	90.229	
	(c) For Lift 3.0m to 4.5m	1			26.65	1.680	0.785	35.146			
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			27.15	1.680	0.200	9.122	235.651	270.797	
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			27.50			27.500	668.090	677.212	
	Item No 30 :- Refilling the excavated trenches ...								35.000	62.500	
	Total Excavation= A=							221.909			
	Deduction										
	pipe area	1.00		0.785	26.65	0.990	0.990	20.50			
	Murrum bedding							9.12			
	Total = B							29.63			
								Net Qty = A - B			
	CKG 4							192.28	11243.944	11436.227	
	CH213.70	575.010	571.810	571.515			3.495				
	CH246.80	575.040	571.940	571.645			3.395	3.445			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			31.65	2.480	0.500	39.246			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc								2797.221	2836.467	
	(a) For Lift 0 to 1.5m	1			31.65	2.480	0.400	31.397			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.								3090.047	3121.444	
	(a) For Lift 0 to 1.5m	1			31.65	2.480	0.200	15.698			
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.								1027.920	1043.619	
	(a) For Lift 0 to 1.5m	1			31.65	2.480	0.400	31.397			
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.								299.719	331.116	
	(b) For Lift 1.5m to 3.0m	1			31.65	2.080	1.500	98.748			
	(c) For Lift 3.0m to 4.5m	1			31.65	1.680	0.445	23.662	2161.349	2260.097	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			32.15	1.680	0.200	10.802	678.488	702.150	
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			32.50			32.500	677.212	688.015	
									62.500	95.000	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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1st C Main Sewer 1800mm-MB Katkat Gate

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D		Page	Quantity	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							240.148			
	Deduction										
	pipe area	1.00		0.785	31.65	0.990	0.990	24.35			
	Murum bedding							10.80			
	Total = B							35.15			
		Net Qty = A - B						204.99		11436.227	11641.221
	CH246.80	575.040	571.940	571.645			3.395	3.345			
	CH277.40	575.060	572.060	571.765			3.295				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	2.480	0.400	28.917		2836.467	2865.384
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			29.15	2.480	0.500	36.146		3121.444	3157.590
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	2.480	0.600	43.375		1043.619	1086.994
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			29.15	2.080	0.300	18.190		1291.932	1310.121
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			29.15	2.080	1.200	72.758		2260.097	2332.855
	(c) For Lift 3.0m to 4.5m	1			29.15	1.680	0.345	16.895		702.150	719.045
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.65	1.680	0.200	9.962		688.015	697.977
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			30.00			30.000		95.000	125.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							216.281			
	Deduction										
	pipe area	1.00		0.785	29.15	0.990	0.990	22.43			
	Murum bedding							9.96			
	Total = B							32.39			
		Net Qty = A - B						183.89		11641.221	11825.113
	CKG 5										
	CH277.40	575.060	572.560	572.265			2.795	2.895			
	CH303.00	575.360	572.660	572.365			2.995				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.080	0.500	25.116		2865.384	2890.500
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			24.15	2.080	0.400	20.093		3157.590	3177.682



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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 Nakshtrawadi (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 No. 08 and CIDCO (Airport) Providing, lowering, laying jointing and testing rising main

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19th C Main Sewer 1800mm-MB Katkat Gate

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			24.15	2.080	0.500	25.116		1086.994	1112.110
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.080	0.100	5.023		331.116	336.139
	(b) For Lift 1.5m to 3.0m	1			24.15	1.680	0.300	12.172		1310.121	1322.293
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.15	1.680	1.095	44.426		2332.855	2377.282
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			24.65	1.680	0.200	8.282		697.977	706.260
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia										
		1			25.00			25.000		125.000	150.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							131.946			
	Deduction										
	pipe area	1.00		0.785	24.15	0.990	0.990	18.58			
	Murrum bedding							8.28			
	Total = B							26.86			
								Net Qty = A - B			
								105.08		11825.113	11930.196
	CH303.00	575.360	572.660	572.365			2.995				
	CH328.60	575.560	572.760	572.465			3.095	3.045			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.480	0.400	23.957		2890.500	2914.456
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			24.15	2.480	0.300	17.968		3177.682	3195.650
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.480	0.300	17.968		1112.110	1130.078
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.480	0.500	29.946		336.139	366.085
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.15	2.080	1.500	75.348		2377.282	2452.630
	(c) For Lift 3.0m to 4.5m	1			24.15	1.680	0.045	1.826		719.045	720.871
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			24.65	1.680	0.200	8.282		706.260	714.542
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia										
		1			25.00			25.000		150.000	175.000



S. S. Sanyal



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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11th C Main Sewer 1 800mm-MB Katkat Gate

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 ...										
	Total Excavation= A=						167.012				
	Deduction										
	pipe area	1.00		0.785	24.15	0.990	0.990	18.58			
	Murum bedding							8.28			
	Total = B							26.86			
				Net Qty = A - B				140.15	11930.196	12070.345	
	CKG 6										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

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11th C Main Sewer 1 800mm-MB Katkat Gate

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	CH328.60	575.560	573.160	572.865			2.695				
	CH339.20	575.700	573.200	572.905			2.795				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			9.15	2.080	0.400	7.613		2914.456	2922.069
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			9.15	2.080	0.150	2.855		3195.650	3198.505
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.15	2.080	0.150	2.855		1130.078	1132.932
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.15	2.080	0.800	15.226		366.085	381.311
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			9.15	1.680	1.245	19.138		2452.630	2471.768
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			9.65	1.680	0.200	3.242		714.542	717.784
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia										
		1			10.00			10.000		175.000	185.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A =							47.686			
	Deduction										
	pipe area	1.00		0.785	9.15	0.990	0.990	7.04			
	Murrum bedding							3.24			
	Total = B							10.28			
	Net Qty = A - B							37.40			
	CH339.20	575.700	573.200	572.905						12070.345	12107.748
	CH364.20	576.000	573.300	573.005				2.795			
								2.995			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.080	0.400	20.800		2922.069	2942.869
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			25.00	2.080	0.150	7.800		3198.505	3206.305
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.080	0.200	10.400		1132.932	1143.332
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.080	0.750	39.000		381.311	420.311
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	1.680	1.395	58.590		2471.768	2530.358



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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	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.00	1.680	0.200	8.400		717.784	726.184
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			25.00			25.000		185.000	210.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							136.590			
	Deduction										
	pipe area	1.00		0.785	25.00	0.990	0.990	19.23			
	Murum bedding							8.40			
	Total = B							27.63			
								Net Qty = A - B			
	CH364.20	576.000	573.300	573.005			2.995			12107.748	12216.704
	CH394.80	576.220	573.420	573.125			3.095	3.045			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	2.480	0.400	28.917		2942.869	2971.786
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			29.15	2.480	0.200	14.458		3206.305	3220.763
	(b) For Lift 1.5m to 3.0m	1			29.15	2.080	0.000	0.000		488.209	488.209
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	2.480	0.150	10.844		1143.332	1154.176
	(b) For Lift 1.5m to 3.0m	1			29.15	2.080	0.000	0.000		1811.036	1811.036
	(c) For Lift 3.0m to 4.5m	1			29.15	1.680	0.000	0.000		90.229	90.229
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	2.480	0.750	54.219		420.311	474.530
	(b) For Lift 1.5m to 3.0m	1			29.15	2.080	0.000	0.000		1322.293	1322.293
	(c) For Lift 3.0m to 4.5m	1			29.15	1.680	0.000	0.000		270.797	270.797
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			29.15	2.080	1.500	90.948		2530.358	2621.306
	(c) For Lift 3.0m to 4.5m	1			29.15	1.680	0.045	2.204		720.871	723.075
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.65	1.680	0.200	9.962		726.184	736.147
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			30.00			30.000		210.000	240.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							201.590			
	Deduction										
	pipe area	1.00		0.785	29.15	0.990	0.990	22.43			
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.96			
	Total = B							32.39			
								Net Qty = A - B			
								169.20		12216.704	12385.904



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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17th C Main Sewer1-700mm-MB Katkat Gate

17th RA BILL MEASUREMENTS

SEWER "C" Katkat Gate to Rahiman 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							
	C-700mm Dia at Ilyas Masjid										
	Width of trench- For Bottom Lift 0.00-1.50m- 0.7+0.17+0.17+0.5=1.54m										
	From Bottom Lift 1.50-3.00m- 0.7+0.17+0.17+0.5+0.4=1.94m										
	From Bottom Lift 3.00-4.50m- 0.7+0.17+0.17+0.5+0.4+0.4 = 2.34m										
	From Bottom Lift 4.50-6.0m- 0.7+0.17+0.17+0.5+0.4+0.4+0.4 = 2.74m										
	CKG 35	400 mtr Gap									
30/05/2016	CH1164.70	585.045	582.590	582.390			2.655	2.950			
	CH1180.90	585.674	582.629	582.429			3.245				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			13.15	1.940	0.600	15.307		2971.786	2987.093
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			13.15	1.940	0.800	20.409		3220.763	3241.172
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.15	1.940	0.100	2.551		1154.176	1156.727
	(b) For Lift 1.5m to 3.0m	1			13.15	1.540	0.800	16.201		1811.036	1827.237
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			13.15	1.540	0.650	13.163		1322.293	1335.456
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			14.15	1.540	0.200	4.358		736.147	740.505
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			15.00			15.000		37.500	52.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							67.630			
	Deduction										
	pipe area	1		0.785	13.15	0.870	0.870	7.81			
	Murrum bedding							4.36			
	Total = B							12.17			
								55.46		12385.904	12441.363
	CKG 36	Net Qty = A - B									
01/06/2016	CH1180.90	585.674	582.629	582.429			3.245	3.459			
	CH1209.60	586.224	582.750	582.550			3.674				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.80	2.340	0.500	30.186		2987.093	3017.279
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			25.80	2.340	1.000	60.372		3241.172	3301.544
	(b) For Lift 1.5m to 3.0m	1			25.80	1.940	0.800	40.042		488.209	528.250



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

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11th C Main Sewer 1-700mm-MB Katkat Gate

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. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			24.00	2.340	0.400	22.464		3045.534	3067.998
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			24.00	2.340	1.100	61.776		3358.055	3419.831
	(b) For Lift 1.5m to 3.0m	1			24.00	1.940	0.900	41.904		556.361	598.265
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.00	1.940	0.600	27.936		1904.439	1932.375
	(c) For Lift 3.0m to 4.5m	1			24.00	1.540	0.900	33.264		124.209	157.473
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			24.00	1.540	0.389	14.377		289.344	303.722
	Item No. 7 :- Filling in plinth and floors / trenches etc	1			24.50	1.540	0.200	7.546		756.352	763.898
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			25.00			25.000		105.000	130.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							201.721			
	Deduction										
	pipe area	1		0.785	24.00	0.870	0.870	14.26			
	Murrum bedding							7.55			
	Total = B							21.81			
	Net Qty = A - B							179.92		12769.044	12948.959
	CKG 38										
07/06/2016	CH1260.80	587.159	583.350	583.150				4.009			
	CH1288.90	587.480	583.470	583.270				4.210			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			26.50	2.340	0.400	24.804		3067.998	3092.802
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			26.50	2.340	1.100	68.211		3419.831	3488.042
	(b) For Lift 1.5m to 3.0m	1			26.50	1.940	1.100	56.551		598.265	654.816
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.50	1.940	0.400	20.564		1932.375	1952.939
	(c) For Lift 3.0m to 4.5m	1			26.50	1.540	0.900	36.729		157.473	194.202
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			26.50	1.540	0.209	8.529		303.722	312.251
	Item No. 7 :- Filling in plinth and floors / trenches etc	1			27.00	1.540	0.200	8.316		763.898	772.214
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			27.50			27.500		130.000	157.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							215.388			
	Deduction										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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11h C Main Sewer1-700mm-MB Katkat Gate

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		0.785	26.50	0.870	0.870	15.75			
	Murum bedding							8.32			
	Total = B							24.06			
								191.33	12948.959	13140.286	
07/06/2016	CH1288.90	587.480	583.470	583.270			4.210	4.397			
	CH1317.00	587.944	583.560	583.360			4.584				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			26.50	2.340	0.450	27.904	3092.802	3120.707	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			26.50	2.340	1.050	65.110	3488.042	3553.152	
	(b) For Lift 1.5m to 3.0m	1			26.50	1.940	1.300	66.833	654.816	721.649	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.50	1.940	0.200	10.282	1952.939	1963.221	
	(c) For Lift 3.0m to 4.5m	1			26.50	1.540	1.200	48.972	194.202	243.174	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			26.50	1.540	0.197	8.040	312.251	320.291	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			27.00	1.540	0.200	8.316	772.214	780.530	
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			27.50			27.500	157.500	185.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							227.142			
	Deduction										
	pipe area	1		0.785	26.50	0.870	0.870	15.75			
	Murum bedding							8.32			
	Total = B							24.06			
								203.08	13140.286	13343.366	
	CKG 39										
10/06/2016	CH1317.00	587.944	584.060	583.860			4.084	4.242			
	CH1348.20	588.390	584.190	583.990			4.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			28.00	2.340	0.350	22.932	3120.707	3143.639	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			28.00	2.340	1.150	75.348	3553.152	3628.500	
	(b) For Lift 1.5m to 3.0m	1			28.00	1.940	1.200	65.184	721.649	786.833	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			28.00	1.940	0.300	16.296	1963.221	1979.517	
	(c) For Lift 3.0m to 4.5m	1			28.00	1.540	1.000	43.120	243.174	286.294	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			28.00	1.540	0.242	10.435	320.291	330.726	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			29.00	1.540	0.200	8.932	780.530	789.462	



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