

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Construction, Erection, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtravadi (Kanchanvadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CHCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

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Page No. :-

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	HL	EXL							
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			25.000			25.000	427.500	452.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							193.131			
	Deduction										
	pipe area	1		0.785	24.400	1.230	1.230	20.970			
	Murum bedding							9.602			
	Total = B							30.660			
								154.470	4059.390	5013.860	
	Net Qty = A - B										
	C 53										
23/07/2016	CH3662.30	567.060	564.200	563.885							
	CH3680.80	567.330	564.230	563.915			3.175	3.295			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			16.900	2.760	0.550	25.654	1385.177	1410.831	
	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			16.900	2.760	0.600	27.986	1345.708	1373.694	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.900	2.760	0.350	16.325	525.113	541.439	
	(b) For Lift 1.5m to 3.0m	1			16.900	2.360	0.100	3.988	757.491	761.479	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock										
	(b) For Lift 1.5m to 3.0m	1			16.900	2.360	0.400	15.954	497.157	513.111	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			16.900	2.360	1.000	39.884	1257.221	1297.105	
	(c) For Lift 3.0m to 4.5m	1			16.900	1.960	0.295	9.772	391.162	400.934	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			17.200	1.960	0.200	6.742	305.480	312.223	
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			17.500			17.500	452.500	470.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							139.564			
	Deduction										
	pipe area	1		0.785	16.900	1.230	1.230	20.071			
	Murum bedding							6.742			
	Total = B							26.813			
								112.750	5013.868	5126.618	
	Net Qty = A - B										
	C 58										
	130mtr Gap from CH. 3680.80 :- C-1000mm At Harsh Nagar										
	CH3810.80	567.865	565.085	564.770			3.095				
	CH3841.80	568.265	565.145	564.830			3.435	3.265			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			29.400	2.760	0.500	40.572	1410.831	1451.403	
	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			29.400	2.760	0.800	64.915	1373.694	1438.610	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.400	2.760	0.200	16.229	541.439	557.667	
	(b) For Lift 1.5m to 3.0m	1			29.400	2.360	0.250	17.346	761.479	778.825	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock										
	(b) For Lift 1.5m to 3.0m	1			29.400	2.360	0.400	27.754	513.111	540.864	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :-

Page No. :-

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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

17b C Main Sewer1-1000mm-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. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.				29.400	2.360	0.850	58.976	1297.105	1356.081
	(b) For Lift 1.5m to 3.0m	1			29.400	1.960	0.265	15.270	400.934	416.204
	(c) For Lift 3.0m to 4.5m	1			29.700	1.960	0.200	11.642	312.223	323.865
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1						30.000	470.000	500.000
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			30.000					
	Item No 30 :- Refilling the excavated trenches ...							241.062		
	Total Excavation = A									
	Deduction pipe area	1		0.785	29.400	1.230	1.230	34.916		
	Murrum bedding							11.642		
	Total = B							46.559		
	Net Qty = A - B							194.504	5126.618	5321.122
	CH3841.80	568.265	565.145	564.830				3.435		
	CH3871.80	568.435	565.205	564.890				3.545		
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc				30.000	2.760	0.450	37.260	1451.403	1488.663
	(a) For Lift 0 to 1.5m	1								
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.				30.000	2.760	0.750	62.100	1438.610	1500.710
	(a) For Lift 0 to 1.5m	1								
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				30.000	2.760	0.300	24.840	557.667	582.507
	(a) For Lift 0 to 1.5m	1			30.000	2.360	0.100	7.080	778.825	785.905
	(b) For Lift 1.5m to 3.0m	1								
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock				30.000	2.360	0.300	21.240	540.864	562.104
	(b) For Lift 1.5m to 3.0m	1								
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.				30.000	2.360	1.100	77.880	1356.081	1433.961
	(b) For Lift 1.5m to 3.0m	1			30.000	1.960	0.490	28.812	416.204	445.016
	(c) For Lift 3.0m to 4.5m	1								
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			30.000	1.960	0.200	11.760	323.865	335.625
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			30.000			30.000	500.000	530.000
	Item No 30 :- Refilling the excavated trenches ...							259.212		
	Total Excavation = A									
	Deduction pipe area	1		0.785	30.000	1.230	1.230	35.629		
	Murrum bedding							11.760		
	Total = B							47.389		
	Net Qty = A - B							211.823	5321.122	5532.945
	CH3871.80	568.435	565.205	564.890				3.545		
	CH3901.80	568.335	565.265	564.950				3.385		
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc				30.000	2.760	0.400	33.120	1488.663	1521.783
	(a) For Lift 0 to 1.5m	1								
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.				30.000	2.760	0.700	57.960	1500.710	1558.670
	(a) For Lift 0 to 1.5m	1								



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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 Ab. 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

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10b C Main Sewer 1-1000mm-M8

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			30.000	2.760	0.400	33.120		582.507	615.627
	(b) For Lift 1.5m to 3.0m	1			30.000	2.360	0.100	7.080		785.905	792.985
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock										
	(b) For Lift 1.5m to 3.0m	1			30.000	2.360	0.400	28.320		562.104	590.424
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			30.000	2.360	1.000	70.800		1433.961	1504.761
	(c) For Lift 3.0m to 4.5m	1			30.000	1.960	0.465	27.342		445.016	472.358
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			30.000	1.960	0.200	11.760		335.625	347.385
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			30.000			30.000		530.000	560.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							257.742			
	Deduction										
	pipe area	1		0.785	30.000	1.230	1.230	35.629			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							11.760			
	Total = B							47.389			
					Net Qty = A - B			210.353		5532.945	5743.299
	CH3901.80	568.335	565.265	564.950			3.385	3.505			
	CH3930.30	568.635	565.325	565.010			3.625				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			26.900	2.760	0.400	29.698		1521.783	1551.481
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.900	2.760	0.750	55.683		1558.670	1614.353
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.900	2.760	0.350	25.985		615.627	641.613
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock										
	(b) For Lift 1.5m to 3.0m	1			26.900	2.360	0.600	38.090		590.424	628.515
	Item No. 5:- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.900	2.360	0.900	57.136		1504.761	1561.897
	(c) For Lift 3.0m to 4.5m	1			26.900	1.960	0.505	26.626		472.358	498.984
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			27.200	1.960	0.200	10.662		347.385	358.048
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			27.500			27.500		560.000	587.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							233.218			
	Deduction										
	pipe area	1		0.785	26.900	1.230	1.230	31.947			
	Murrum bedding							10.662			
	Total = B							42.610			
					Net Qty = A - B			190.608		5743.299	5933.907
	C 60	42.5 m Gap due to Bridge at Fazilpura									
	CH3972.80	568.360	565.510	565.195			3.165	3.490			



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S. S. D. D. D.



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

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12th C Main Sewer1-1000mm-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							
	CH3988.80	569.040	565.540	565.225			3.815				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			14.400	2.760	0.450	17.885	1551.481	1569.365	
	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			14.400	2.760	0.600	23.846	1614.353	1638.199	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.400	2.760	0.450	17.885	641.613	659.498	
	(b) For Lift 1.5m to 3.0m	1			14.400	2.360	0.150	5.098	792.985	798.083	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock										
	(b) For Lift 1.5m to 3.0m	1			14.400	2.360	0.550	18.691	628.515	647.206	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.400	2.360	0.800	27.187	1561.897	1589.084	
	(c) For Lift 3.0m to 4.5m	1			14.400	1.960	0.490	13.830	498.984	512.814	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			14.700	1.960	0.200	5.762	358.048	363.810	
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			15.000			15.000	587.500	602.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							124.422			
	Deduction										
	pipe area	1		0.785	14.400	1.230	1.230	17.102			
	Murrum bedding							5.762			
	Total = B							22.864			
								Net Qty = A - B	101.558	5933.907 6035.464	
								Connected to C 61 manhole at Ch. 3670 in RA Bill 9			
	CH3988.80	569.040	565.540	565.225			3.815				
	CH3670/4007.3	568.813	565.580	565.265			3.548	3.682			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			16.900	2.760	0.400	18.658	1569.365	1588.023	
	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			16.900	2.760	0.600	27.986	1638.199	1666.185	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.900	2.760	0.500	23.322	659.498	682.820	
	(b) For Lift 1.5m to 3.0m	1			16.900	2.360	0.100	3.988	798.083	802.071	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock										
	(b) For Lift 1.5m to 3.0m	1			16.900	2.360	0.500	19.942	647.206	667.148	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard										
	(b) For Lift 1.5m to 3.0m	1			16.900	2.360	0.900	35.896	1589.084	1624.980	
	(c) For Lift 3.0m to 4.5m	1			16.900	1.960	0.682	22.591	512.814	535.404	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			17.200	1.960	0.200	6.742	363.810	370.552	
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			17.500			17.500	602.500	620.000	
	Item No 30 :- Refilling the excavated										
	Total Excavation= A							152.383			
	Deduction										
	pipe area	1		0.785	16.900	1.230	1.230	20.071			



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Measurement Book

Name of work: Development of Underground Sewerage Collection System for Zone I to VI and Zone Sahin Ab/Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshiravadi (Kaneharavadi), 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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1 1/2" C Main Sewer 1-1000mm-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							
	Murum bedding							6.742			
	Total = B							26.813			
		Net Qty = A - B						125.569	6035.464	6161.033	
	C 68	C-1000mm At Kachlwada from manhole C 68 at CH. 4074.85 in RA 9									
23/05/2016	CH4074.85/4412.15	569.610	566.840	566.525			3.085				
	CH4433.15	570.115	566.880	566.565			3.550				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			19.400	2.760	0.500	26.772	1588.023	1614.795	
	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			19.400	2.760	0.500	26.772	1666.185	1692.957	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.400	2.760	0.500	26.772	682.820	709.592	
	(b) For Lift 1.5m to 3.0m	1			19.400	2.360	0.100	4.578	802.071	806.650	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock										
	(b) For Lift 1.5m to 3.0m	1			19.400	2.360	0.300	13.735	667.148	680.883	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.400	2.360	1.100	50.362	1624.980	1675.342	
	(c) For Lift 3.0m to 4.5m	1			19.400	1.960	0.318	12.092	535.404	547.496	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.700	1.960	0.200	7.722	370.552	378.275	
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			20.000			20.000	620.000	640.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							161.084			
	Deduction										
	pipe area	1		0.785	19.400	1.230	1.230	23.040			
	Murum bedding							7.722			
	Total = B							30.762			
		Net Qty = A - B						130.321	6161.033	6291.355	
25/05/2016	CH4433.15	570.115	566.880	566.565			3.550				
	CH4461.65	570.300	566.925	566.610			3.690				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			26.900	2.760	0.550	40.834	1614.795	1655.629	
	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			26.900	2.760	0.650	48.259	1692.957	1741.216	
	(b) For Lift 1.5m to 3.0m	1			26.900	2.360	0.000	0.000	189.463	189.463	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.900	2.760	0.300	22.273	709.592	731.865	
	(b) For Lift 1.5m to 3.0m	1			26.900	2.360	0.000	0.000	806.650	806.650	
	(c) For Lift 3.0m to 4.5m	1			26.900	1.960	0.000	0.000	45.874	45.874	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock										
	(a) For Lift 0 to 1.5m	1			26.900	2.760	0.000	0.000	26.413	26.413	
	(b) For Lift 1.5m to 3.0m	1			26.900	2.360	0.400	25.394	680.883	706.277	
	(c) For Lift 3.0m to 4.5m	1			26.900	1.960	0.000	0.000	66.660	66.660	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.900	2.360	1.100	69.832	1675.342	1745.174	



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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	Particulars	Details										Last Measurement		Total up to Date
		GL	IL	No	EXL	L	B	D	Content of arrears	Last measurement Page	Quantity	Page No.	Quantity	
	(C) For Lift 3.0m to 4.5m	1			26.900	1.960	0.620	32.689		547.496		580.185		
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			27.200	1.960	0.200	10.662		378.275		388.937		
	Item No. 17 (h) :- Lowering & Laying RCC NP3 class pipe of 1000mm Dia	1			27.500			27.500		640.000		667.500		
	Item No 30 :- Refilling the excavated trenches ...													
	Total Excavations= A							239.281						
	Deduction pipe area				0.785	26.900	1.230	31.947						
	Murrum bedding							10.662						
	Total = B							42.610						
					Net Qty = A - B			196.671		6291.355		6488.026		

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1bb C Main Sewer 1-1000mm-MB



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Measurement Book

Name of work: Development of Underground Sewerage Collection System for Zone I to VI and Zone Salih Ah Construction, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshirawadi (Kakerkhadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erecting, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No. 09 and CIDCO (Airport). Providing lowing laying jointing and testing rising main

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11th 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-700mm Dia at Times Colony										
	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										
	C 95										
01/06/2016	CH4702.50	574.095	571.160	570.960			3.135				
	CH4741.20	574.210	571.200	571.000			3.210				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			35.80	2.340	0.600	50.263		1655.629	1705.892
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			35.80	2.340	0.300	25.132		1741.216	1766.348
	(b) For Lift 1.5m to 3.0m	1			35.80	1.940	0.000	0.000		189.463	189.463
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.80	2.340	0.200	16.754		731.865	748.619
	(b) For Lift 1.5m to 3.0m	1			35.80	1.940	0.000	0.000		806.650	806.650
	(c) For Lift 3.0m to 4.5m	1			35.80	1.540	0.000	0.000		45.874	45.874
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			35.80	2.340	0.400	33.509		26.413	59.922
	(b) For Lift 1.5m to 3.0m	1			35.80	1.940	0.800	55.562		706.277	761.838
	(c) For Lift 3.0m to 4.5m	1			35.80	1.540	0.000	0.000		66.660	66.660
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			35.80	1.940	0.700	48.616		1745.174	1793.791
	(c) For Lift 3.0m to 4.5m	1			35.80	1.540	0.173	9.538		580.185	589.723
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			36.80	1.540	0.200	11.334		388.937	400.272
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			37.50			37.500		0.000	37.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							239.374			
	Deduction										
	pipe area	1		0.785	35.80	0.870	0.870	21.27			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							11.33			
	Total = B							32.61			
	Net Qty = A - B							206.77		6488.026	6694.794



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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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11th C Main Sewer1-600mm-MB

11th R A BILL MEASUREMENTS

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	C-600mm Dia at Heena Nagar										
	Width of trench- For Bottom Lift 0.00-1.50m- 0.6+0.17+0.17+0.5=1.44m										
	From Bottom Lift 1.50-3.00m- 0.6+0.17+0.17+0.5+0.4=1.84m										
	From Bottom Lift 3.00-4.50m- 0.6+0.17+0.17+0.5+0.4+0.4 = 2.24m										
	From Bottom Lift 4.50-6.0m- 0.6+0.17+0.17+0.5+0.4+0.4 +0.4 = 2.64m										
	C 96										
05/06/2016	CH4741.20	574.210	571.240	571.040			3.170	3.305			
	CH4787.40	574.680	571.440	571.240			3.440				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			43.30	2.240	0.700	67.894	1705.892	1773.787	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			43.30	2.240	0.200	19.398	1766.348	1785.746	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			43.30	2.240	0.600	58.195	748.619	806.814	
	(b) For Lift 1.5m to 3.0m	1			43.30	1.840	0.100	7.967	806.650	814.617	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			43.30	1.840	0.600	47.803	761.838	809.641	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			43.30	1.840	0.800	63.738	1793.791	1857.528	
	(c) For Lift 3.0m to 4.5m	1			43.30	1.440	0.305	19.017	589.723	608.740	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			44.30	1.440	0.200	12.758	400.272	413.030	
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			45.00			45.000	0.000	45.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							284.013			
	Deduction										
	pipe area	1		0.785	43.30	0.770		20.15			
	Murrum bedding							12.76			
	Total = B							32.91			
								Net Qty = A - B	251.10	6694.794	6945.896
	C 97										
11/06/2016	CH4787.40	574.680	571.460	571.260			3.420	3.400			
	CH4813.60	574.690	571.510	571.310			3.380				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			23.30	2.240	0.650	33.925	1773.787	1807.712	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			23.30	2.240	0.400	20.877	1785.746	1806.623	



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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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.30	2.240	0.450	23.486		806.814	830.301
	(b) For Lift 1.5m to 3.0m	1			23.30	1.840	0.200	8.574		814.617	823.191
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			23.30	1.840	0.600	25.723		809.641	835.365
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			23.30	1.840	0.700	30.010		1857.528	1887.539
	(c) For Lift 3.0m to 4.5m	1			23.30	1.440	0.400	13.421		608.740	622.161
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			24.30	1.440	0.200	6.998		413.030	420.028
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.00			25.000		45.000	70.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							156.017			
	Deduction										
	pipe area	1		0.785	23.30	0.770	0.770	10.84			
	Murrum bedding							7.00			
	Total = B							17.84			
								Net Qty = A - B		6945.896	7084.070
	C 9B										
21/06/2016	CH4813.60	574.690	571.510	571.310			3.380				
	CH4867.30	574.910	571.610	571.410			3.500	3.440			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			50.80	2.240	0.700	79.654		1807.712	1887.366
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			50.80	2.240	0.650	73.965		1806.623	1880.588
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			50.80	2.240	0.150	17.069		830.301	847.370
	(b) For Lift 1.5m to 3.0m	1			50.80	1.840	0.500	46.736		823.191	869.927
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			50.80	1.840	1.000	93.472		835.365	928.837
	(c) For Lift 3.0m to 4.5m	1			50.80	1.440	0.440	32.187		66.660	98.847
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			51.80	1.440	0.200	14.918		420.028	434.947
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			52.50			52.500		70.000	122.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							343.083			
	Deduction										
	pipe area	1		0.785	50.80	0.770	0.770	23.64			
	Murrum bedding							14.92			
	Total = B							38.56			
								Net Qty = A - B		7084.070	7388.591
	C 101										
	Gap of 110mtr (Nehru Nagar)										
	CH4977.30	575.925	573.955	573.755			2.170				
	CH5010.40	577.230	574.055	573.855			3.375	2.772			



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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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12th C Main Sewer-1-600mm-MS

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			31.65	1.840	0.550	32.030		1887.366	1919.396
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc.										
	(a) For Lift 0 to 1.5m	1			31.65	1.840	0.300	17.471		1880.588	1898.058
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			31.65	1.840	0.350	20.383		847.370	867.752
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			31.65	1.840	0.300	17.471		59.922	77.393
	(b) For Lift 1.5m to 3.0m	1			31.65	1.440	0.300	13.673		928.837	942.509
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			31.65	1.440	0.972	44.300		1887.539	1931.839
	Item No. 7 :- Filling in plinth and floors/ trenches etc.										
	(a) For Lift 0 to 1.5m	1			32.15	1.440	0.200	9.259		434.947	444.206
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia										
	(a) For Lift 0 to 1.5m	1			32.50			32.500		122.500	155.000
	Item No 30 :- Refilling the excavated trenches -										
	Total Excavation= A							145.327			
	Deduction										
	pipe area	1		0.785	31.65	0.770	0.770	14.73			
	Murum bedding							9.26			
	Total = B							23.99			
	Net Qty = A - B							121.34		7388.591	7509.928
	CH5010.40	577.230	574.055	573.855				3.375	3.382		
	CH5041.00	577.345	574.155	573.955				3.390			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	2.240	0.550	35.913		1919.396	1955.309
	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	2.240	0.700	45.707		1898.058	1943.766
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	2.240	0.250	16.324		867.752	884.076
	(b) For Lift 1.5m to 3.0m	1			29.15	1.840	0.700	37.545		869.927	907.472
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			29.15	1.840	0.800	42.909		942.509	985.418
	(c) For Lift 3.0m to 4.5m	1			29.15	1.440	0.382	16.035		98.847	114.882
	Item No. 7 :- Filling in plinth and floors/ trenches etc.										
	(a) For Lift 0 to 1.5m	1			29.65	1.440	0.200	8.539		444.206	452.745
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia										
	(a) For Lift 0 to 1.5m	1			30.00			30.000		155.000	185.000
	Item No 30 :- Refilling the excavated trenches -										
	Total Excavation= A							194.433			
	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

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1st 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			14.65	1.440	0.200	4.219		458.404	462.624
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		205.000	220.000
	Item No 30 :- Refilling the excavated trenches ...							96.277			
	Total Excavation= A										
	Deduction										
	pipe area	1		0.785	14.15	0.770	0.770	6.59			
	Murum bedding							4.22			
	Total = B							10.80			
								85.47		7791.857	7877.329
	C 103										
	CH5077.20	577.935	575.200	575.000				2.935			
	CH5095.30	577.755	575.270	575.070				2.685			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			16.65	1.840	0.550	16.850		2003.793	2020.643
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			16.65	1.840	0.300	9.191		1983.862	1993.052
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.65	1.840	0.250	7.659		897.875	905.534
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.65	1.840	0.400	12.254		86.902	99.156
	(b) For Lift 1.5m to 3.0m	1			16.65	1.440	0.100	2.398		1008.243	1010.641
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			16.65	1.440	1.210	29.011		1965.685	1994.696
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			17.15	1.440	0.200	4.939		462.624	467.563
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			17.50			17.500		220.000	237.500
	Item No 30 :- Refilling the excavated trenches ...							77.363			
	Total Excavation= A										
	Deduction										
	pipe area	1		0.785	16.65	0.770	0.770	7.75			
	Murum bedding							4.94			
	Total = B							12.69			
								64.67		7877.329	7942.003
	CH5095.30	577.755	575.270	575.070				2.685			
	CH5127.80	577.955	575.400	575.200				2.755			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			32.50	1.840	0.600	35.880		2020.643	2056.523
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			32.50	1.840	0.800	47.840		1993.052	2040.892
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										



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AURANGABAD MUNICIPAL CORPORATION.

(Form No. 52)

Measurement Book

Name of work: Development of Underground Sewerage Collection system for Zone I to VI and Zone before A/C Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nab-shirwadi (Kanchanwadi), Banuwadi, Siddharth Garden, Zaha, Padegaon, CHCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Hanuwadi, Siddharth Garden, Padegaon, Golwadi, Zaha, Ward

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Sheet Main Sewer 600mm dia

Date	Particulars of work	DETAILS					Content of areas	Estt measurement		Total upto Date Quantity	
		GL	No H.	EXL	I	II		III	Page		Quantity
	(a) For Lift 0 to 1.5m	1			32.50	1.040	0.100	5.960		905.534	911.514
	(b) For Lift 1.5m to 3.0m	1			32.50	1.440	0.900	42.120		942.700	984.820
	Item No. 7 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			32.50	1.440	0.320	14.976		1010.641	1025.617
	Item No. 7 :- Filling in plinth and chases/ trenches etc	1			42.50	1.440	0.200	9.360		467.563	476.923
	Item No. 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm dia	1			32.50			32.500		237.500	270.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							146.796			
	Deduction										
	pipe area	1		0.705	32.50	0.770	0.770	15.13			
	Murum bedding							9.36			
	Total = B							24.49			
					Net Qty = A - B						
								122.31		7942.003	8064.312
	CHS 127.00	577.955	575.400	575.200			2.755				
	CHS 162.00	570.950	575.550	575.350			3.600	3.170			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			35.00	2.240	0.600	47.040		2056.523	2103.563
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			35.00	2.240	0.600	47.040		2040.892	2087.932
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.00	2.240	0.300	23.520		911.514	935.034
	(b) For Lift 1.5m to 3.0m	1			35.00	1.040	1.300	43.720		984.820	1068.548
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			35.00	1.040	0.200	12.880		1025.617	1038.497
	(c) For Lift 3.0m to 4.5m	1			35.00	1.440	0.178	8.971		121.850	130.830
	Item No. 7 :- Filling in plinth and chases/ trenches etc	1			35.00	1.440	0.200	10.080		476.923	487.003
	Item No. 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm dia	1			35.00			35.000		270.000	305.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							223.171			
	Deduction										
	pipe area	1		0.705	35.00	0.770	0.770	16.29			
	Murum bedding							10.08			
	Total = B							26.37			
					Net Qty = A - B						
								196.80		8064.312	8261.113
	CHS 162.00	570.950	575.550	575.350			3.600				
	CHS 185.00	570.940	575.640	575.440			3.500	3.550			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.240	0.650	31.522		2103.563	2135.086
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			21.65	2.240	0.250	12.124		2087.932	2100.056



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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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11th 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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m				21.65	2.240	0.600	29.098		935.034	964.131
	(b) For Lift 1.5m to 3.0m	1			21.65	1.840	0.300	11.951		1068.548	1080.499
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.840	0.750	29.877		1038.497	1068.374
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.840	0.450	17.926		1994.696	2012.623
	(c) For Lift 3.0m to 4.5m	1			21.65	1.440	0.550	17.147		631.839	648.986
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			22.15	1.440	0.200	6.379		487.003	493.382
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			22.50			22.500		305.000	327.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							149.645			
	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		8261.113	8394.303
	C104										
	CHS185.90	578.940	575.640	575.440			3.500	3.150			
	CHS221.50	578.380	575.780	575.580			2.800				
	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		2135.086	2180.983
	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	0.800	61.197		2100.056	2161.253
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			34.15	2.240	0.100	7.650		964.131	971.781
	(b) For Lift 1.5m to 3.0m	1			34.15	1.840	0.500	31.418		1080.499	1111.917
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			34.15	1.840	0.950	59.694		1068.374	1128.068
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			34.15	1.840	0.050	3.142		2012.623	2015.764
	(c) For Lift 3.0m to 4.5m	1			34.15	1.440	0.150	7.376		648.986	656.363
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			34.65	1.440	0.200	9.979		493.382	503.361
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			35.00			35.000		327.500	362.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							216.374			
	Deduction										
	pipe area	1		0.785	34.15	0.770	0.770	15.89			
	Murrum bedding							9.98			
	Total = B							25.87			



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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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11th 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							
		Net Qty = A - B						190.50		8394.303	8584.803
31/07/2016	CH5221.50	578.380	575.780	575.580							
	CH5242.10	578.370	575.870	575.670			2.800	2.750			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	0.600	21.142		2180.983	2202.125
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	0.700	24.665		2161.253	2185.918
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	0.200	7.047		971.781	978.828
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.950	26.197		1111.917	1138.114
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.300	8.273		1128.068	1136.341
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.65	1.440	0.200	5.659		503.361	509.020
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000		362.500	382.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A										
	Deduction pipe area							87.324			
	Murum bedding	1		0.785	19.15	0.770	0.770	8.91			
	Total = B							5.66			
								14.57			
								72.75			
	C 105										
	CH5242.10										
	CH5280.20	578.370	575.870	575.670			2.700		8584.803	8657.555	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.	578.220	576.020	575.820			2.400	2.550			
	(a) For Lift 0 to 1.5m	1			36.65	1.840	0.650	43.833		2202.125	2245.958
	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	0.750	50.577		2185.918	2236.495
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			36.65	1.840	0.100	6.744		978.828	985.572
	(b) For Lift 1.5m to 3.0m	1			36.65	1.440	0.750	39.582		1138.114	1177.696
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			36.65	1.440	0.300	15.833		1136.341	1152.174
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			37.15	1.440	0.200	10.699		509.020	519.720
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			37.50			37.500		382.500	420.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A										
	Deduction pipe area							156.569			
		1			0.785	36.65	0.770	0.770	17.06		



84.04/2019



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	EXL							
	Murum bedding						10.70				
	Total = B						27.76				
							Net Qty = A - B				
							128.81		8657.555	8786.367	
	CH5280.20	578.220	576.020	575.820			2.400	2.600			
	CH5300.80	578.670	576.070	575.870			2.800				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	0.650	22.903		2245.958	2268.862
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			19.15	1.840	0.850	29.951		2236.495	2266.446
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.600	16.546		1177.696	1194.242
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.440	0.500	13.788		1152.174	1165.962
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.65	1.440	0.200	5.659		519.720	525.379
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000		420.000	440.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							83.188			
	Deduction										
	pipe area	1		0.785	19.15	0.770	0.770	8.91			
	Murum bedding							5.66			
	Total = B							14.57			
								Net Qty = A - B			
							68.62		8786.367	8854.983	
	C 106										
	CH5300.80	578.670	576.070	575.870			2.800	2.850			
	CH5308.90	578.800	576.100	575.900			2.900				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			6.65	1.840	0.600	7.342		2268.862	2276.203
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			6.65	1.840	0.800	9.789		2266.446	2276.235
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.65	1.840	0.100	1.224		985.572	986.795
	(b) For Lift 1.5m to 3.0m	1			6.65	1.440	0.850	8.140		1194.242	1202.382
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			6.65	1.440	0.500	4.788		1165.962	1170.750
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			7.15	1.440	0.200	2.059		525.379	527.438
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			7.50			7.500		440.000	447.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							31.282			
	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 Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshrawadi (Kanchanwadi) STP and Ward No.98 to

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15th 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							
	pipe area	1		0.785	6.65	0.770	0.770	3.10			
	Murum bedding							2.06			
	Total = B							5.15			
				Net Qty = A - B				26.13	8854.983	8881.110	
08/08/2016	CH5308.90	578.800	576.100	575.900				2.900			
	CH5336.40	579.610	576.210	576.010				3.600			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			27.50	2.240	0.550	33.880	2276.203	2310.083	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			27.50	2.240	0.600	36.960	2276.235	2313.195	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			27.50	2.240	0.200	12.320	986.795	999.115	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			27.50	2.240	0.150	9.240	99.156	108.396	
	(b) For Lift 1.5m to 3.0m	1			27.50	1.840	0.300	15.180	1170.750	1185.930	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			27.50	1.840	1.200	60.720	2015.764	2076.484	
	(c) For Lift 3.0m to 4.5m	1			27.50	1.440	0.250	9.900	656.363	666.263	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			27.50	1.440	0.200	7.920	527.438	535.358	
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			27.50			27.500	447.500	475.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							178.200			
	Deduction										
	pipe area	1		0.785	27.50	0.770	0.770	12.80			
	Murum bedding							7.92			
	Total = B							20.72			
				Net Qty = A - B				157.48	8881.110	9038.591	
	CH5336.40	579.610	576.210	576.010				3.600			
	CH5352.00	579.670	576.270	576.070				3.600			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			14.15	2.240	0.500	15.848	2310.083	2325.931	
	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	2.240	1.000	31.696	2313.195	2344.891	
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	0.400	10.414	189.463	199.877	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	0.200	5.207	1202.382	1207.589	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	0.700	18.225	1185.930	1204.155	



20/08/2016



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanehanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

Book No. :-

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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. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.15	1.840	0.200	5.207		2076.484	2081.692
	(c) For Lift 3.0m to 4.5m	1			14.15	1.440	0.600	12.226		666.263	678.488
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			14.65	1.440	0.200	4.219		535.358	539.577
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			15.00			15.000		475.000	490.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							98.824			
	Deduction										
	pipe area	1		0.785	14.15	0.770	0.770	6.59			
	Murram bedding							4.22			
	Total = B							10.80			
								Net Qty = A - B		9038.591	9126.609
	C 107										
	CH5352.00	579.670	576.270	576.070			3.600	3.400			
	CH5390.10	579.420	576.420	576.220			3.200				
	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		2325.931	2371.084
	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	2.240	0.950	77.991		2344.891	2422.882
	(b) For Lift 1.5m to 3.0m	1			36.65	1.840	0.600	40.462		199.877	240.339
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			36.65	1.840	0.900	60.692		1207.589	1268.281
	(c) For Lift 3.0m to 4.5m	1			36.65	1.440	0.100	5.278		45.874	51.152
	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	0.300	15.833		130.830	146.662
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			37.15	1.440	0.200	10.699		539.577	550.276
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			37.50			37.500		490.000	527.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							245.408			
	Deduction										
	pipe area	1		0.785	36.65	0.770	0.770	17.06			
	Murram bedding							10.70			
	Total = B							27.76			
								Net Qty = A - B		9126.609	9344.261
	CH5390.10	579.420	576.420	576.220			3.200	3.300			
	CH5415.10	579.720	576.520	576.320			3.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.240	0.600	33.600		2371.084	2404.684
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			25.00	2.240	0.900	50.400		2422.882	2473.282
	(b) For Lift 1.5m to 3.0m	1			25.00	1.840	0.500	23.000		240.339	263.339



S. S. Jyoti