



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 Sewerage Stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward

Book No. :-

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Sewer D-Branch at Jaffer Gate-Bambu Market 400mm Dia

Page 1 of 6

12th RA BILL MEASUREMENTS Branch of Sewer D at Bambu Market Near Ajinta Bank

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	400mm Dia										
	400mm dia (Width of Trench -0.400+0.15+0.15+0.5=1.20m)										
	For Width of Trench Calculation	For Depth			0.0m to 1.5m		0.0m to 3.0m	0.0m to 4.5m			
	Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.	For Lift 0.0m to 1.5m			1.200		1.600	2.000			
		For Lift 1.5m to 3.0m					1.200	1.600			
		For Lift 3.0m to 4.5m						1.200			
25/07/2016	JGB 0	10 mtr Gap From Nala									
	CH10.00	572.841	571.406	571.206			1.635				
	CH23.50	573.571	571.656	571.456			2.115	1.875			
	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			10.800	1.600	1.500	25.920		0.000	25.920
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.375	4.860		0.000	4.860
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.800	1.200	0.200	2.832		0.000	2.832
	Item No. : 11 Transportation of earth Transportation charges							5.397		0.000	5.397
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500		0.000	12.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							30.780			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.565			
	Murum bedding							2.832			
	Total = B							5.397			
	JGB 1	Net Qty = A - B						25.383		0.000	25.383
26/07/2016	CH23.50	573.571	571.656	571.456			2.115				
	CH34.50	573.591	571.706	571.506			2.085	2.100			
	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			8.300	1.600	0.800	10.624		25.920	36.544
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.600	0.550	7.304		0.000	7.304
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.350	3.486		0.000	3.486
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.600	0.150	1.992		0.000	1.992
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.250	2.490		0.000	2.490
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.300	1.200	0.200	2.232		2.832	5.064
	Item No. : 11 Transportation of earth Transportation charges							4.203		5.397	9.600
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.000			10.000		12.500	22.500



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(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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Sewer D-Branch at Jaffer Gate-Bambu Market 400mm Dia

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Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.000			10.000		12.500	22.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							25.896			
	Deduction										
	pipe area	1		0.785	8.300	0.550	0.550	1.971			
	Murum bedding							2.232			
	Total = B							4.203			
		Net Qty = A - B						21.693		25.383	47.076
27/07/2016	JGB 2										
	CH34.50	573.591	571.736	571.536			2.055	2.130			
	CH48.00	573.791	571.786	571.586			2.205				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.500	8.640		36.544	45.184
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.850	14.688		7.304	21.992
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.300	3.888		3.486	7.374
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.150	2.592		1.992	4.584
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.330	4.277		2.490	6.762
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.800	1.200	0.200	2.832		5.064	7.896
	Item No. : 11 Transportation of earth Transportation charges							5.397		9.600	14.996
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500		22.500	35.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							34.085			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.565			
	Murum bedding							2.832			
	Total = B							5.397			
		Net Qty = A - B						28.688		47.076	75.765
28/07/2016	JGB 3										
	CH48.00	573.791	571.786	571.586			2.205	2.240			
	CH61.50	573.911	571.836	571.636			2.275				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.500	8.640		45.184	53.824
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.850	14.688		21.992	36.680
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.500	6.480		7.374	13.854



Handwritten signatures

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

Book No. :-

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Sewer D-Branch at Jaffer Gate-Bambu Market 400mm Dia

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Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.150	2.592		4.584	7.176
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.240	3.110		6.767	9.877
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.800	1.200	0.200	2.832		7.896	10.728
	Item No. : 11 Transportation of earth Transportation charges							5.397		14.996	20.393
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500		35.000	47.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							35.510			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.565			
	Murum bedding							2.832			
	Total = B							5.397			
				Net Qty = A - B				30.114		75.765	105.878
29/07/2016	JGB 4										
	CH61.50	573.911	571.886	571.686			2.225	2.205			
	CH75.00	573.921	571.936	571.736			2.185				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.700	12.096		53.824	65.920
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.650	11.232		36.680	47.912
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.500	6.480		13.854	20.334
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	1.600	0.150	2.592		7.176	9.768
	(b) For Lift 1.5m to 3.0m	1			10.800	1.200	0.205	2.657		9.877	12.534
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.800	1.200	0.200	2.832		10.728	13.560
	Item No. : 11 Transportation of earth Transportation charges							5.397		20.393	25.789
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500		47.500	60.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							35.057			
	Deduction										
	pipe area	1		0.785	10.800	0.550	0.550	2.565			
	Murum bedding							2.832			
	Total = B							5.397			
				Net Qty = A - B				29.660		105.878	135.539



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AURANGABAD MUNICIPAL CORPORATION.

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Sewer D-Branch at Jaffer Gate-Bambu Market 400mm Dia

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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
03/08/2016	JGB 5										
	CH75.00	573.921	572.036	571.836			2.085	1.962			
	CH89.50	573.900	572.261	572.061			1.839				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			11.800	1.600	0.750	14.160		65.920	80.080
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.800	1.600	0.600	11.328		47.912	59.240
	(b) For Lift 1.5m to 3.0m	1			11.800	1.200	0.200	2.832		20.334	23.166
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.800	1.600	0.150	2.832		9.768	12.600
	(b) For Lift 1.5m to 3.0m	1			11.800	1.200	0.262	3.710		12.534	16.244
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.800	1.200	0.200	3.072		13.560	16.632
	Item No. : 11 Transportation of earth Transportation charges							5.874		25.789	31.663
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			13.500			13.500		60.000	73.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							34.862			
	Deduction										
	pipe area	1		0.785	11.800	0.550	0.550	2.802			
	Murum bedding							3.072			
	Total = B							5.874			
		Net Qty = A - B						28.988		135.539	164.527
08/2016	JGB 6										
	CH89.50	573.900	572.286	572.086			1.814	2.270			
	CH110.50	575.131	572.606	572.406			2.725				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	1.250	36.600		80.080	116.680
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.200	4.392		4.860	9.252
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	0.100	2.928		59.240	62.168
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.200	4.392		23.166	27.558
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	0.150	4.392		12.600	16.992
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.370	8.125		16.244	24.369
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.300	1.200	0.200	4.632		16.632	21.264
	Item No. : 11 Transportation of earth Transportation charges							8.978		31.663	40.641



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Page No. :-

Sewer D-Branch at Jaffer Gate-Bambu Market 400mm Dia

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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			20.000		73.500	93.500
	Item No 30 :- Refilling the excavated trenches --										
	Total Excavation= A							60.829			
	Deduction										
	pipe area	1		0.785	18.300	0.550	0.550	4.346			
	Murum bedding							4.632			
	Total = B							8.978			
		Net Qty = A - B						51.852		164.527	216.378
06/08/2016	JGB 7										
	CH110.50	575.131	573.056	572.856			2.275	2.720			
	CH131.50	576.101	573.136	572.936			3.165				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	1.250	36.600		116.680	153.280
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.600	13.176		9.252	22.428
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	0.100	2.928		62.168	65.096
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.400	8.784		27.558	36.342
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	0.150	4.392		16.992	21.384
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.220	4.831		24.369	29.200
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.300	1.200	0.200	4.632		21.264	25.896
	Item No. : 11 Transportation of earth Transportation charges							8.978		40.641	49.619
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			20.000		93.500	113.500
	Item No 30 :- Refilling the excavated trenches --										
	Total Excavation= A							70.711			
	Deduction										
	pipe area	1		0.785	18.300	0.550	0.550	4.346			
	Murum bedding							4.632			
	Total = B							8.978			
		Net Qty = A - B						61.734		216.378	278.112
08/08/2016	JGB 8										
	CH131.50	576.101	573.836	573.636			2.465	2.245			
	CH152.50	576.881	575.056	574.856			2.025				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	1.250	36.600		153.280	189.880
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.200	4.392		22.428	26.820
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	0.100	2.928		65.096	68.024
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.300	6.588		36.342	42.930



Handwritten signatures and initials.



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Sewer D-Branch at Gate-Bambu Market 400mm Dia

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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.300	1.600	0.150	4.392		21.384	25.776
	(b) For Lift 1.5m to 3.0m	1			18.300	1.200	0.245	5.380		29.200	34.581
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.300	1.200	0.200	4.632		25.896	30.528
	Item No. : 11 Transportation of earth Transportation charges							8.978		49.619	58.596
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			20.000		113.500	133.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							60.280			
	Deduction										
	pipe area	1		0.785	18.300	0.550	0.550	4.346			
	Murum bedding							4.632			
	Total = B							8.978			
		Net Qty = A - B						51.303		278.112	329.414
08/08/2016	JGB 9										
	CH152.50	576.881	575.456	575.256			1.625	1.572			
	CH163.50	576.991	575.671	575.471			1.520				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			8.300	1.200	1.250	12.450		189.880	202.330
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.072	0.717		26.820	27.537
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.200	0.100	0.996		68.024	69.020
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.000	0.000		42.930	42.930
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	1.200	0.150	1.494		25.776	27.270
	(b) For Lift 1.5m to 3.0m	1			8.300	1.200	0.000	0.000		34.581	34.581
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.300	1.200	0.200	2.232		30.528	32.760
	Item No. : 11 Transportation of earth Transportation charges							4.203		58.596	62.799
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.000			10.000		133.500	143.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							15.657			
	Deduction										
	pipe area	1		0.785	8.300	0.550	0.550	1.971			
	Murum bedding							2.232			
	Total = B							4.203			
		Net Qty = A - B						11.454		329.414	340.869
	Item No. : 35 Shifting of Existing Utilities Length considered up to 400 mm including all and as directed by Engineer In-Charge				0.144			0.144		0.000	0.144



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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

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Branch of Sewer D at Bambu Market Near Ajinta Bank

Branch of Sewer D at Bambu Market Near Ajanta Dams											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	DWC - 315 mm Dia										
	315mm dia (Width of Trench -0.315+0.5=0.815m)										
	For Width of Trench Calculation						0.0m to 1.5m	0.0m to 3.0m	0.0m to 4.5m		
	Outer dia of Pipe + 0.50 for Bottom						0.815	1.215	1.615		
	and Add 0.4 for Subsequent upper Lifts.							0.815	1.215		
	For Lift 3.0m to 4.5m								0.815		
	Connection From Manhole JGB 7 at CH 110.50										
	CH0.00							1.700			
	CH6.50										
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.750	1.215	1.500	10.479		202.330 212.809	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			5.750	0.815	0.200	0.937		42.930 43.867	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.750	0.815	0.100	0.469		32.760 33.229	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.917		62.799 63.716	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			6.000			6.000		0.000 6.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.417			
	pipe area	1.00		0.785	5.750	0.315	0.315	0.448			
	Murrum bedding							0.469			
								0.917			
								10.500		340.869 351.369	
	Connection From Manhole JGB 8 at CH 131.50										
	CH0.00										
	CH4.50							0.900			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.750	0.815	0.650	1.987		212.809 214.796	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.750	0.815	0.100	0.306		69.020 69.326	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.750	0.815	0.150	0.458		27.270 27.728	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.750	0.815	0.100	0.306		33.229 33.534	



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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

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

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. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.750	0.815	0.100	0.306		33.229	33.534
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.598		63.716	64.313
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			4.000			4.000		6.000	10.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.751			
	pipe area	1.00		0.785	3.750	0.315	0.315	0.292			
	Murum bedding							0.306			
								0.598			
	Net Qty = A - B							2.153		351.369	353.522
	JGB 10	Continued from 400mm Dia Sewer									
10/08/2016	CH153.50	576.991	575.671	575.571			1.420	1.577			
	CH162.30	577.351	575.716	575.616			1.735				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.100	0.815	1.250	6.214		214.796	221.010
	(b) For Lift 1.5m to 3.0m	1			6.100	0.815	0.077	0.383		27.537	27.920
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.100	0.815	0.100	0.497		69.326	69.823
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.100	0.815	0.150	0.746		27.728	28.474
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.100	0.815	0.100	0.579		33.534	34.113
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.054		64.313	65.367
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.600			7.600		10.000	17.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.840			
	pipe area	1.00		0.785	6.100	0.315	0.315	0.475			
	Murum bedding							0.579			
								1.054			
	Net Qty = A - B							6.786		353.522	360.308
	JGB 11										
11/08/2016	CH162.30	577.351	575.716	575.616			1.735	1.845			
	CH180.85	577.601	575.746	575.646			1.955				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.850	1.215	1.250	24.072		221.010	245.083



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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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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.850	1.215	0.100	1.926		69.823	71.749
	(b) For Lift 1.5m to 3.0m	1			15.850	0.815	0.200	2.584		43.867	46.451
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.850	1.215	0.150	2.889		28.474	31.363
	(b) For Lift 1.5m to 3.0m	1			15.850	0.815	0.145	1.873		34.581	36.454
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.850	0.815	0.100	1.373		34.113	35.486
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.608		65.367	67.975
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			17.350			17.350		17.600	34.950
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							31.470			
	pipe area	1.00		0.785	15.850	0.315	0.315	1.235			
	Murrum bedding							1.373			
								2.608			
								28.862		360.308	389.170
	Net Qty = A - B										
	JGB 12										
	CH180.85	577.601	575.846	575.746			1.855	1.900			
	CH202.45	578.096	576.251	576.151			1.945				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.900	1.215	1.250	28.704		245.083	273.787
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.900	1.215	0.100	2.296		71.749	74.045
	(b) For Lift 1.5m to 3.0m	1			18.900	0.815	0.200	3.081		46.451	49.532
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.900	1.215	0.150	3.445		31.363	34.807
	(b) For Lift 1.5m to 3.0m	1			18.900	0.815	0.200	3.081		36.454	39.534
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.900	0.815	0.100	1.622		35.486	37.108
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.094		67.975	71.069
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			20.400			20.400		34.950	55.350



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(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

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							37.526			
	pipe area	1.00		0.785	18.900	0.315	0.315	1.472			
	Murrum bedding							1.622			
								3.094			
		Net Qty = A - B						34.432		389.170	423.602
	JGB 13										
	CH202.45	578.096	576.251	576.151			1.945	1.953			
	CH218.25	578.346	576.486	576.386			1.960				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.100	1.215	1.100	17.508		273.787	291.295
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.100	1.215	0.250	3.979		74.045	78.024
	(b) For Lift 1.5m to 3.0m	1			13.100	0.815	0.200	2.135		49.532	51.667
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.100	1.215	0.150	2.387		34.807	37.195
	(b) For Lift 1.5m to 3.0m	1			13.100	0.815	0.253	2.701		39.534	42.235
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.100	0.815	0.100	1.149		37.108	38.257
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.170		71.069	73.238
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			14.600			14.600		55.350	69.950
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.010			
	pipe area	1.00		0.785	13.100	0.315	0.315	1.020			
	Murrum bedding							1.149			
								2.170			
		Net Qty = A - B						23.841		423.602	447.443
	JGB 14										
	CH218.25	578.346	576.586	576.486			1.860	1.940			
	CH235.75	578.666	576.746	576.646			2.020				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.800	1.215	1.100	19.780		291.295	311.075
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.800	1.215	0.250	4.496		78.024	82.520
	(b) For Lift 1.5m to 3.0m	1			14.800	0.815	0.100	1.206		51.667	52.873



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AURANGABAD MUNICIPAL CORPORATION.

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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

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.800	1.215	0.150	2.697		37.195	39.892
	(b) For Lift 1.5m to 3.0m	1			14.800	0.815	0.200	2.412		42.235	44.648
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			14.800	0.815	0.140	1.689		0.000	1.689
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.800	0.815	0.100	1.288		38.257	39.545
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.440		73.238	75.679
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			16.300			16.300		69.950	86.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.179			
	pipe area	1.00		0.785	14.800	0.315	0.315	1.153			
	Murum bedding							1.288			
								2.440			
								25.739		447.443	473.181
	JGB 15						1.920	1.945			
	CH235.75	578.666	576.846	576.746			1.970				
	CH252.05	578.846	576.976	576.876							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.600	1.215	1.100	18.176		311.075	329.252
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.600	1.215	0.250	4.131		82.520	86.651
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.600	1.215	0.150	2.479		39.892	42.371
	(b) For Lift 1.5m to 3.0m	1			13.600	0.815	0.200	2.217		44.648	46.865
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			13.600	0.815	0.245	2.716		1.689	4.404
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.600	0.815	0.100	1.190		39.545	40.735
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.249		75.679	77.928
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			15.100			15.100		86.250	101.350



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AURANGABAD MUNICIPAL CORPORATION.

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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.

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...							24.786			
	Total Excavation=							1.059			
	pipe area	1.00		0.785	13.600	0.315	0.315	1.190			
	Murrum bedding							2.249			
								22.537		473.181	495.718
		Net Qty = A - B									
	JGB 16										
	CH252.05	578.846	577.076	576.976			1.870	1.825			
	CH281.65	578.846	577.166	577.066			1.780				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.900	1.215	1.250	40.854		329.252	370.106
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.900	1.215	0.100	3.268		86.651	89.919
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			26.900	1.215	0.150	4.903		42.371	47.273
	(b) For Lift 1.5m to 3.0m	1			26.900	0.815	0.100	2.192		46.865	49.057
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.900	0.815	0.225	4.933		4.404	9.337
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			27.900	0.815	0.100	2.274		40.735	43.009
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.369		77.928	82.297
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			28.400			28.400		101.350	129.750
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							49.025			
	pipe area	1.00		0.785	26.900	0.315	0.315	2.095			
	Murrum bedding							2.274			
								4.369			
		Net Qty = A - B						44.656		495.718	540.374
	JGB 17										
	CH281.65	578.846	577.166	577.066			1.780	1.725			
	CH291.65	578.836	577.266	577.166			1.670				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	1.215	1.250	11.087		370.106	381.193
	(b) For Lift 1.5m to 3.0m	1			7.300	0.815	0.100	0.595		27.920	28.515



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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

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		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			7.300	1.215	0.100	0.887		89.919	90.806
	(b) For Lift 1.5m to 3.0m	1			7.300	0.815	0.125	0.744		52.873	53.617
	Item No. 4 :- Excavation for foundation/pipe trenches In soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	1.215	0.150	1.330		47.273	48.604
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.300	0.815	0.100	0.676		43.009	43.685
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.245		82.297	83.542
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			8.800			8.800		129.750	138.550
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							14.643			
	pipe area	1.00		0.785	7.300	0.315	0.315	0.569			
	Murrum bedding							0.676			
								1.245			
		Net Qty = A - B						13.398		540.374	553.772
	JGB 18										
	CH291.65	578.836	577.366	577.266			1.570	1.570			
	CH310.75	578.946	577.476	577.376			1.570				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	0.815	1.150	15.371		381.193	396.564
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	0.815	0.200	2.673		90.806	93.479
	(b) For Lift 1.5m to 3.0m	1			16.400	0.815	0.070	0.936		53.617	54.552
	Item No. 4 :- Excavation for foundation/pipe trenches In soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	0.815	0.150	2.005		48.604	50.609
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.400	0.815	0.100	1.418		43.685	45.103
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.696		83.542	86.238
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			17.900			17.900		138.550	156.450



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Measurement Book

Same 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 Nakshatrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying, jointing and testing rising main

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

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=							20.985			
	pipe area	1.00		0.785	16.400	0.315	0.315	1.277			
	Murum bedding							1.418			
								2.696			
		Net Qty = A - B						18.289		553.772	572.061
	JGB 19										
	CH310.75	578.946	577.476	577.376			1.570	1.610			
	CH318.15	579.126	577.576	577.476			1.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	1.215	1.250	7.138		396.564	403.702
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	1.215	0.100	0.571		93.479	94.050
	(b) For Lift 1.5m to 3.0m	1			4.700	0.815	0.110	0.421		54.552	54.974
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.700	1.215	0.150	0.857		50.609	51.468
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.700	0.815	0.100	0.465		45.103	45.568
	Item No. 11 Transportation of earth Transportation charges including loading & unloading							0.831		86.238	87.069
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			6.200			6.200		156.450	162.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.987			
	pipe area	1.00		0.785	4.700	0.315	0.315	0.366			
	Murum bedding							0.465			
								0.831			
		Net Qty = A - B						8.156		572.061	580.218
	JGB 20										
	CH318.15	579.126	577.576	577.476			1.650	1.665			
	CH331.85	579.186	577.606	577.506			1.680				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	1.215	1.150	15.370		403.702	419.072
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	1.215	0.200	2.673		94.050	96.723
	(b) For Lift 1.5m to 3.0m	1			11.000	0.815	0.165	1.479		54.974	56.453
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	1.215	0.150	2.005		51.465	53.470



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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 Vencture)

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

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		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			12.000	0.815	0.100	0.978		45.568	46.546
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.835		87.068	88.903
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.500			12.500		162.650	175.150
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							21.527			
	pipe area	1.00		0.785	11.000	0.315	0.315	0.857			
	Murrum bedding							0.978			
								1.835			
		Net Qty = A - B						19.692		580.218	599.910
	JGB 21										
	CH331.85	579.186	577.606	577.506			1.680	1.810			
	CH345.95	579.506	577.666	577.566			1.940				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	1.215	1.250	17.314		419.072	436.385
	(b) For Lift 1.5m to 3.0m	1			11.400	0.815	0.100	0.929		28.515	29.444
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	1.215	0.100	1.385		96.723	98.108
	(b) For Lift 1.5m to 3.0m	1			11.400	0.815	0.210	1.951		56.453	58.404
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	1.215	0.150	2.078		53.470	55.548
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.400	0.815	0.100	1.011		46.546	47.556
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.899		88.903	90.802
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.900			12.900		175.150	188.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							23.657			
	pipe area	1.00		0.785	11.400	0.315	0.315	0.888			
	Murrum bedding							1.011			
								1.899			
		Net Qty = A - B						21.758		599.910	621.668



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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 pipes line from Gacholi CIDCO to Kanchanwadi (Banewadi) etc.

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

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Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	JGB 22										
	CH345.95	579.506	577.666	577.566			1.940	1.863			
	CH360.85	579.686	578.000	577.900			1.786				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.200	1.215	1.250	18.529		436.385	454.914
	(b) For Lift 1.5m to 3.0m	1			12.200	0.815	0.200	1.989		29.444	31.433
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.200	1.215	0.100	1.482		98.108	99.590
	(b) For Lift 1.5m to 3.0m	1			12.200	0.815	0.163	1.621		58.404	60.025
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			12.200	1.215	0.150	2.223		55.548	57.771
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.200	0.815	0.100	1.076		47.556	48.632
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.026		90.802	92.828
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			13.700			13.700		188.050	201.750
	Item No. 30 :- Refilling the excavated trenches ...							25.844			
	Total Excavation=	1.00		0.785	12.200	0.315	0.315	0.950			
	pipe area							1.076			
	Murrum bedding							2.026			
								23.818		621.668	645.485
	JGB 23										
	CH360.85	579.686	578.100	578.000			1.686	1.573			
	CH382.05	579.826	578.466	578.366			1.460				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.500	1.215	1.150	25.849		454.914	480.763
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.500	1.215	0.200	4.496		99.590	104.086
	(b) For Lift 1.5m to 3.0m	1			18.500	0.815	0.073	1.101		60.025	61.128
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.500	1.215	0.150	3.372		57.771	61.143
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.500	0.815	0.100	1.589		48.632	50.221
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.030		92.828	95.858



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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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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

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. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			20.000			20.000		201.750	221.750
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							34.817			
	pipe area	1.00		0.785	18.500	0.315	0.315	1.441			
	Murum bedding							1.589			
								3.030			
		Net Qty = A - B						31.787		645.485	677.272
	JGB 24										
	CH382.05	579.826	578.566	578.466			1.360	1.417			
	CH390.95	580.000	578.626	578.526			1.474				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.200	0.815	1.000	5.053		480.763	485.816
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.200	0.815	0.267	1.349		104.086	105.435
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.200	0.815	0.150	0.758		61.143	61.901
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.200	0.815	0.100	0.587		50.221	50.808
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.070		95.858	96.928
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.700			7.700		221.750	229.450
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.160			
	pipe area	1.00		0.785	6.200	0.315	0.315	0.483			
	Murum bedding							0.587			
								1.070			
		Net Qty = A - B						6.090		677.272	683.363
	JGB 13. 0	Branch At Jambhad Estate from Manhole JGB 13 at Ch.-212.45									
	CH0.00	578.096	576.736	576.636			1.460	1.555			
	CH7.30	578.356	576.806	576.706			1.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.300	0.815	1.150	4.967		485.816	490.784
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.300	0.815	0.200	0.864		105.435	106.299
	(b) For Lift 1.5m to 3.0m	1			5.300	0.815	0.055	0.238		61.125	61.363



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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, CHDO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CHDO (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.

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

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12 of 14 Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.300	0.815	0.150	0.648		61.901	62.549
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.800	0.815	0.100	0.473		50.808	51.281
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.886		96.928	97.813
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			6.300			6.300		229.450	235.750
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.717			
	pipe area	1.00		0.785	5.300	0.315	0.315	0.413			
	Murum bedding							0.473			
								0.886			
		Net Qty = A - B						5.831		683.363	689.194
	JGB 13. 1										
	CH7.30	578.356	576.806	576.706			1.650	1.605			
	CH17.90	578.476	577.016	576.916			1.560				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.100	1.215	1.250	12.302		490.784	503.086
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.100	1.215	0.100	0.984		106.299	107.283
	(b) For Lift 1.5m to 3.0m	1			8.100	0.815	0.105	0.693		61.363	62.056
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.100	1.215	0.150	1.476		62.549	64.025
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.100	0.815	0.100	0.742		51.281	52.023
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.373		97.813	99.186
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			9.600			9.600		235.750	245.350
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							15.455			
	pipe area	1.00		0.785	8.100	0.315	0.315	0.631			
	Murum bedding							0.742			
								1.373			
		Net Qty = A - B						14.083		689.194	703.277



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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 S.T.P. for Aurangabad City.

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	JGB 13.2										
	CH17.90	578.476	577.016	576.916			1.560	1.520			
	CH31.40	578.586	577.206	577.106			1.480				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.815	1.000	8.965		503.086	512.051
	Item No. 2 :- Excavation for foundation/pipe trenches In Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.815	0.350	3.138		107.283	110.421
	(b) For Lift 1.5m to 3.0m	1			11.000	0.815	0.020	0.179		62.056	62.235
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.815	0.150	1.345		64.025	65.369
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.000	0.815	0.100	0.978		52.023	53.001
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.835		99.186	101.021
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.500			12.500		245.350	257.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							13.627			
	pipe area	1.00		0.785	11.000	0.315	0.315	0.857			
	Murrum bedding							0.978			
								1.835			
								11.792		703.277	715.069
	JGB 13.3										
	CH31.40	578.586	577.206	577.106			1.480	1.355			
	CH37.60	578.486	577.356	577.256			1.230				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.700	0.815	0.900	2.714		512.051	514.765
	(b) For Lift 1.5m to 3.0m	1			3.700	0.815	0.000	0.000		31.433	31.433
	Item No. 2 :- Excavation for foundation/pipe trenches In Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.700	0.815	0.305	0.920		110.421	111.341
	(b) For Lift 1.5m to 3.0m	1			3.700	0.815	0.000	0.000		62.235	62.235
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.700	0.815	0.150	0.452		65.369	65.822
	(b) For Lift 1.5m to 3.0m	1			3.700	0.815	0.000	0.000		49.057	49.057
	Item No. 5 :- Excavation for foundation/pipe trenches In Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			3.700	0.815	0.000	0.000		9.337	9.337



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AURANGABAD MUNICIPAL CORPORATION.

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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 Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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

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Sewer D-Branch at Jaffer Gate-Bambu Market DWC-300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		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			4.700	0.815	0.100	0.383		53.001	53.384
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.671		101.021	101.692
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			5.200			5.200		257.850	263.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.086			
	pipe area	1.00		0.785	3.700	0.315	0.315	0.288			
	Murum bedding							0.383			
								0.671			
		Net Qty = A - B						3.415		715.069	718.483
	Item No. : 35 Shifting of Existing Utilities Length considered up to 400 mm including all and as directed by Engineer In-Charge				0.263			0.263		0.144	0.407



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(From No.52)

Measurement Book

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

Book No. :- 129

Page No. :-

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

Sewer D-Branch at Jaffer Gate-Bambu Market Manhole Excavation

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12th R A BILL MEASUREMENTS

Branch of Sewer D at Bambu Market Near Ajinta Bank

Branch of Sewer D at Bambu Market Near Ajanta Bank											
Date	Particulars of work	DETAILS						Content of area	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.70m										
	Area for chember upto 2m=2.70 X 2.70=7.29m										
	JGB 1	1.2m Dia									
	CH23.50	573.571	571.656	571.406			2.165				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.800	4.578		0.000	4.578
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.550	3.147		0.000	3.147
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.350	2.003		0.000	2.003
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.150	0.858		0.000	0.858
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.315	1.803		0.000	1.803
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.448		0.000	3.448
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							12.390			
	Deduction										
	Brick work	1.00		0.785	1.350	1.350	1.915	2.740			
	PCC	1.00		0.785	1.900	1.900	0.250	0.708			
	Total (B)							3.448			
		Net Qty = A - B						8.941		0.000	8.941
	JGB 2	1.2m Dia									
	CH34.50	573.591	571.706	571.456			2.135				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.500	2.861		4.578	7.439
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.850	4.864		3.147	8.012
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.300	1.717		2.003	3.720



Signature

Signature

Measurement Book

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

Book No. :-

Page No. :-

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Sewer D-Branch at Jaffer Gate-Bambu Market Manhole Excavation

Date	Particulars of work	DETAILS						Content of area	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.150	0.858		0.858	1.717
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.335	1.917		1.803	3.720
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.405		3.448	6.853
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							12.218			
	Deduction										
	Brick work	1.00		0.785	1.350	1.350	1.885	2.697			
	PCC	1.00		0.785	1.900	1.900	0.250	0.708			
	Total (B)							3.405			
		Net Qty = A - B						8.813		8.941	17.754
	JGB 3	1.2m Dia									
	CH48.00	573.791	571.786	571.536			2.255				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.500	2.861		7.439	10.301
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.850	4.864		8.012	12.876
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.500	2.861		3.720	6.581
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.150	0.858		1.717	2.575
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.255	1.459		3.720	5.179
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.577		6.853	10.430
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							12.905			
	Deduction										
	Brick work	1.00		0.785	1.350	1.350	2.005	2.868			
	PCC	1.00		0.785	1.900	1.900	0.250	0.708			
	Total (B)							3.577			
		Net Qty = A - B						9.328		17.754	27.082
	JGB 4	1.2m Dia									
	CH61.50	573.911	571.836	571.586			2.325				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.700	4.006		10.301	14.307





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 131
Page No. :-

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.

M. V. P. L. Construction Pvt. Ltd. & GECPL (Joint Venture)

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Sewer D-Branch at Jaffer Gate-Bambu Market Manhole Excavation

Date	Particulars of work	DETAILS					Content of area	Last measurment		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.650	3.720		12.876	16.596
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.500	2.861		6.581	9.442
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.150	0.858		2.575	3.434
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.325	1.860		5.179	7.039
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.677		10.430	14.107
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							13.305			
	Deduction										
	Brick work	1.00		0.785	1.350	1.350	2.075	2.969			
	PCC	1.00		0.785	1.900	1.900	0.250	0.708			
	Total (B)							3.677			
		Net Qty = A - B						9.628		27.082	36.710
	JGB 5	1.2m Dia									
	CH75.00	573.921	571.936	571.686			2.235				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.750	4.292		14.307	18.599
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.600	3.434		16.596	20.029
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.200	1.145		9.442	10.587
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.150	0.858		3.434	4.292
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.535	3.062		7.039	10.100
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.548		14.107	17.656
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							12.790			
	Deduction										
	Brick work	1.00		0.785	1.350	1.350	1.985	2.840			
	PCC	1.00		0.785	1.900	1.900	0.250	0.708			
	Total (B)							3.548			
		Net Qty = A - B						9.242		36.710	45.952



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