



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

Book No. :- 114

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1st D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	IL	EX.L	L	B	D		Page	Quantity	
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			20.000	1.200	0.400	9.600		50.474	60.074
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.000	1.200	0.800	19.200		105.842	125.042
	(b) For Lift 1.5m to 3.0m	1			20.000	1.200	0.015	0.360		1.470	1.830
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.000	1.200	0.300	7.200		42.444	49.644
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.000	1.200	0.200	4.800		21.224	26.024
	Item No. : 11 Transportation of earth Transportation charges							9.549		41.424	50.973
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			21.500			21.500		85.000	106.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							36.360			
	Deduction										
	pipe area	1		0.785	20.000	0.550	0.550	4.75			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							4.80			
	Total = B							9.55			
	Net Qty = A - B							26.81		193.531	220.342
	DBR6										
	CH113.70	578.616	577.286	577.086			1.53				
	CH137.40	578.686	577.386	577.186			1.50	1.515			
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			21.000	1.200	0.300	7.560		60.074	67.634
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.000	1.200	0.900	22.680		125.042	147.722
	(b) For Lift 1.5m to 3.0m	1			21.000	1.200	0.015	0.378		1.830	2.208
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			21.000	1.200	0.300	7.560		49.644	57.204
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.000	1.200	0.200	5.040		26.024	31.064
	Item No. : 11 Transportation of earth Transportation charges							10.027		50.973	61.000
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500		106.500	129.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							38.178			
	Deduction										
	pipe area	1		0.785	21.000	0.550	0.550	4.99			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							5.04			



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12th D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B		Page	Quantity	
	Total = B						10.03			
							28.15		220.342	248.493
	DBR7									
	CH137.40	578.606	577.386	577.186			1.50			
	CH148.10	578.776	577.426	577.226			1.55	1.525		
	Item No. 1 :- Excavation for foundation/pipe trenches in all									
	(a) For Lift 0 to 1.5m	1			8.000	1.200	0.300	2.880	67.634	70.514
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			8.000	1.200	0.900	8.640	147.722	156.362
	(b) For Lift 1.5m to 3.0m	1			8.000	1.200	0.025	0.240	2.208	2.448
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			8.000	1.200	0.300	2.880	57.204	60.084
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.000	1.200	0.200	1.920	31.064	32.984
	Item No. : 11 Transportation of earth Transportation charges							3.820	61.000	64.819
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			9.500			9.500	129.000	138.500
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A						14.640			
	Deduction									
	pipe area	1		0.785	8.000	0.550	0.550	1.90		
	soling							0.00		
	PCC							0.00		
	Murrum bedding							1.92		
	Total = B						3.82			
							10.82		248.493	259.313
	DBR8									
	CH148.10	578.776	577.426	577.226			1.55	1.580		
	CH159.30	578.876	577.466	577.266			1.61			
	Item No. 1 :- Excavation for foundation/pipe trenches in all									
	(a) For Lift 0 to 1.5m	1			8.500	1.200	0.400	4.080	70.514	74.594
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			8.500	1.200	0.800	8.160	156.362	164.522
	(b) For Lift 1.5m to 3.0m	1			8.500	1.200	0.080	0.816	2.448	3.264
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			8.500	1.200	0.300	3.060	60.084	63.144
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.500	1.200	0.200	2.040	32.984	35.024
	Item No. : 11 Transportation of earth Transportation charges							4.058	64.819	68.878
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.000			10.000	138.500	148.500
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A						16.116			



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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 GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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12th D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D	Page	Quantity	
	Deduction									
	pipe area	1		0.785	8.500	0.550	0.550		2.02	
	soling								0.00	
	PCC								0.00	
	Murum bedding								2.04	
	Total = B								4.06	
	Net Qty = A - B						12.06		259.313	271.371
	DBR9									
	CH159.30	578.876	577.466	577.266			1.61			
	CH178.00	579.056	577.536	577.336			1.72		1.665	
	Item No. 1 :- Excavation for foundation/pipe trenches in all									
	(a) For Lift 0 to 1.5m	1			16.000	1.600	0.400		10.240	74.594 84.834
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(a) For Lift 0 to 1.5m	1			16.000	1.600	0.800		20.480	164.522 185.002
	(b) For Lift 1.5m to 3.0m	1			16.000	1.200	0.165		3.168	3.264 6.432
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			16.000	1.600	0.300		7.680	63.144 70.824
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.000	1.200	0.200		3.840	35.024 38.864
	Item No. : 11 Transportation of earth Transportation charges								7.639	68.878 76.517
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500				17.500	148.500 166.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A								41.568	
	Deduction									
	pipe area	1		0.785	16.000	0.550	0.550		3.80	
	soling								0.00	
	PCC								0.00	
	Murum bedding								3.84	
	Total = B								7.64	
	Net Qty = A - B						33.93		271.371	305.300
	DBR10									
	CH178.00	579.056	577.536	577.336			1.72			
	CH191.70	579.526	577.590	577.390			2.14		1.928	
	Item No. 1 :- Excavation for foundation/pipe trenches in all									
	(a) For Lift 0 to 1.5m	1			11.000	1.600	0.400		7.040	84.834 91.874
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(a) For Lift 0 to 1.5m	1			11.000	1.600	0.800		14.080	185.002 199.082
	(b) For Lift 1.5m to 3.0m	1			11.000	1.200	0.100		1.320	6.432 7.752
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			11.000	1.600	0.300		5.280	70.824 76.104
	(b) For Lift 1.5m to 3.0m	1			11.000	1.200	0.328		4.330	34.724 39.054
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.000	1.200	0.200		2.640	38.864 41.504
	Item No. : 11 Transportation of earth Transportation charges								5.252	76.517 81.769



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12th D Branch near Hari Masjid- 400mm-MB

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			12.500			12.500		166.000	178.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							32.050			
	Deduction										
	pipe area	1		0.785	11.000	0.550	0.550	2.61			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.64			
	Total = B							5.25			
		Net Qty = A - B						26.80		305.300	332.097
	DBR11										
	CH191.70	579.526	577.590	577.390			2.14	1.918			
	CH208.90	579.556	578.056	577.856			1.70				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			14.500	1.600	0.500	11.600		91.874	103.474
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.500	1.600	0.800	18.560		199.082	217.642
	(b) For Lift 1.5m to 3.0m	1			14.500	1.200	0.100	1.740		7.752	9.492
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.500	1.600	0.200	4.640		76.104	80.744
	(b) For Lift 1.5m to 3.0m	1			14.500	1.200	0.318	5.533		39.054	44.587
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.500	1.200	0.200	3.480		41.504	44.984
	Item No. : 11 Transportation of earth Transportation charges							6.923		81.769	88.692
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			16.000			16.000		178.500	194.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							42.073			
	Deduction										
	pipe area	1		0.785	14.500	0.550	0.550	3.44			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.48			
	Total = B							6.92			
		Net Qty = A - B						35.15		332.097	367.247
	DBR12						1.70	1.605			
	CH208.90	579.556	578.056	577.856			1.51				
	CH217.60	579.646	578.336	578.136							
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			6.000	1.600	0.600	5.760		103.474	109.234
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.000	1.600	0.750	7.200		217.642	224.842
	(b) For Lift 1.5m to 3.0m	1			6.000	1.200	0.105	0.756		9.492	10.248
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										



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12th D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	IL	EX.L	L	B	D		Page	Quantity	
	(a) For Lift 0 to 1.5m	1			6.000	1.600	0.150	1.440		80.744	82.184
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.000	1.200	0.200	1.440		44.984	46.424
	Item No. : 11 Transportation of earth Transportation charges							2.865		88.692	91.557
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			7.500			7.500		194.500	202.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							15.156			
	Deduction										
	pipe area	1		0.785	6.000	0.550	0.550	1.42			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.44			
	Total = B							2.86			
	Net Qty = A - B							12.29		367.247	379.538
	DBR13										
	CH217.60	579.646	578.336	578.136			1.51	1.540			
	CH223.80	579.856	578.486	578.286			1.57				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			3.500	1.200	0.500	2.100		109.234	111.334
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.500	1.200	0.850	3.570		224.842	228.412
	(b) For Lift 1.5m to 3.0m	1			3.500	1.200	0.040	0.168		10.248	10.416
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.500	1.200	0.150	0.630		82.184	82.814
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.500	1.200	0.200	0.840		46.424	47.264
	Item No. : 11 Transportation of earth Transportation charges							1.671		91.557	93.228
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			5.000			5.000		202.000	207.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							6.468			
	Deduction										
	pipe area	1		0.785	3.500	0.550	0.550	0.83			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.84			
	Total = B							1.67			
	Net Qty = A - B							4.80		379.538	384.335
	DBR14										
	CH223.80	579.856	578.486	578.286			1.57	1.565			
	CH232.50	579.886	578.526	578.326			1.56				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			6.000	1.200	0.500	3.600		111.334	114.934
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										



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11th D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
	(a) For Lift 0 to 1.5m	1			6.000	1.200	0.850	6.120		228.412	234.532
	(b) For Lift 1.5m to 3.0m	1			6.000	1.200	0.065	0.468		10.416	10.884
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.000	1.200	0.150	1.080		82.814	83.894
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.000	1.200	0.200	1.440		47.264	48.704
	Item No. : 11 Transportation of earth Transportation charges							2.865		93.228	96.093
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			7.500			7.500		207.000	214.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							11.268			
	Deduction										
	pipe area	1		0.785	6.000	0.550	0.550	1.42			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.44			
	Total = B							2.86			
	Net Qty = A - B							8.40		384.335	392.738
	DBR15										
	CH232.50	579.886	578.526	578.326			1.56	1.510			
	CH239.20	579.986	578.726	578.526			1.46				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			4.000	1.200	0.500	2.400		114.934	117.334
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	1.200	0.850	4.080		234.532	238.612
	(b) For Lift 1.5m to 3.0m	1			4.000	1.200	0.010	0.048		10.884	10.932
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	1.200	0.150	0.720		83.894	84.614
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.000	1.200	0.200	0.960		48.704	49.664
	Item No. : 11 Transportation of earth Transportation charges							1.910		96.093	98.003
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			5.500			5.500		214.500	220.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							7.248			
	Deduction										
	pipe area	1		0.785	4.000	0.550	0.550	0.95			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.96			
	Total = B							1.91			
	Net Qty = A - B							5.34		392.738	398.077
	DBR16										
	CH239.20	579.986	578.726	578.526			1.46	1.428			
	CH247.90	580.246	579.050	578.850			1.40				



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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, Freeting, 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) SFP and Ward No.98 to S.P.D. for Aurangabad City.

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11th D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			6.000	1.200	0.150	1.080		117.334	118.414
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.000	1.200	0.700	5.040		238.612	243.652
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.000	1.200	0.578	4.162		84.614	88.776
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.000	1.200	0.200	1.440		49.664	51.104
	Item No. : 11 Transportation of earth Transportation charges							2.865		98.003	100.868
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			7.500			7.500		220.000	227.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							10.282			
	Deduction										
	pipe area	1		0.785	6.000	0.550	0.550	1.42			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.44			
	Total = B							2.86			
	Net Qty = A - B							7.42		398.077	405.493
	DBR17										
	CH247.90	580.246	579.050	578.850			1.40	1.438			
	CH264.10	580.426	579.146	578.946			1.48				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			13.500	1.200	0.200	3.240		118.414	121.654
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.500	1.200	0.700	11.340		243.652	254.992
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.500	1.200	0.538	8.716		88.776	97.491
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.500	1.200	0.200	3.240		51.104	54.344
	Item No. : 11 Transportation of earth Transportation charges							6.446		100.868	107.313
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		227.500	242.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							23.296			
	Deduction										
	pipe area	1		0.785	13.500	0.550	0.550	3.21			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							3.24			
	Total = B							6.45			
	Net Qty = A - B							16.85		405.493	422.343



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

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1h D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DBR18										
	CH264.10	580.426	579.146	578.946			1.48	1.440			
	CH270.30	580.456	579.256	579.056			1.40				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			3.500	1.200	0.200	0.840		121.654	122.494
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.500	1.200	0.700	2.940		254.992	257.932
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.500	1.200	0.540	2.268		97.491	99.759
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.500	1.200	0.200	0.840		54.344	55.184
	Item No. : 11 Transportation of earth Transportation charges							1.671		107.313	108.985
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			5.000			5.000		242.500	247.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							6.048			
	Deduction										
	pipe area	1		0.785	3.500	0.550	0.550	0.83			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.84			
	Total = B							1.67			
								4.38		422.343	426.720
	DBR19										
	CH270.30	580.456	579.256	579.056			1.40	1.390			
	CH273.70	580.576	579.396	579.196			1.38				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			1.200	1.200	0.200	0.288		122.494	122.782
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.200	1.200	0.700	1.008		257.932	258.940
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.200	1.200	0.490	0.706		99.759	100.465
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.200	1.200	0.200	0.288		55.184	55.472
	Item No. : 11 Transportation of earth Transportation charges							0.573		108.985	109.558
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			2.200			2.200		247.500	249.700
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							2.002			
	Deduction										
	pipe area	1		0.785	1.200	0.550	0.550	0.28			
	soling							0.00			
	PCC							0.00			



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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)

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17th D Branch near Hari Masjid- 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murrum bedding							0.29			
	Total = B							0.57			
		Net Qty = A - B						1.43		426.720	428.149
	Storm water line										
	CH0.00										
	CH15.00	Pipe laid in 1m depth						1.000			
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			15.000	1.200	1.000	18.000		122.782	140.782
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.000	1.200	0.000	0.000		258.940	258.940
	(b) For Lift 1.5m to 3.0m	1			15.000	1.200	0.000	0.000		10.932	10.932
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.000	1.200	0.000	0.000		100.465	100.465
	(b) For Lift 1.5m to 3.0m	1			15.000	1.200	0.000	0.000		44.587	44.587
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.000	1.200	0.200	3.600		55.472	59.072
	Item No. : 11 Transportation of earth Transportation charges							7.162		109.558	116.720
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		249.700	264.700
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							18.000			
	Deduction										
	pipe area	1		0.785	15.000	0.550	0.550	3.56			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							3.60			
	Total = B							7.16			
		Net Qty = A - B						10.84		428.149	438.987



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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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11th D Branch near Hari Masjid 1.2m Dia MH Excavation

11th RA BILL MEASUREMENTS (Excavation of Manhole)

D'BRANCH NEAR HARRI MASJID

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D		Page	Quantity	
	Excavation of Chamber - For 1.20m dia Manhole (upto a depth of 2.0m)- 1.20+0.25+0.25+0.5+0.5=2.7m										
	Area for Manhole=2.7*2.7=7.29m										
	DBR1										
	CH11.20	578.696	576.786	576.536			2.160				
	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	0.400	2.289		0.000	2.289
	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	0.800	4.578		0.000	4.578
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.100	0.572		0.000	0.572
	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	0.300	1.717		0.000	1.717
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.560	3.205		0.000	3.205
	Item No. : 11 Transportation of earth Transportation charges							3.441		0.000	3.441
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.361			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.910	2.733			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								3.441			
	Net Qty = A - B							8.920		0.000	8.920
	DBR2										
	CH34.90	578.576	576.816	576.566			2.010				
	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	0.300	1.717		2.289	4.006
	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	0.900	5.150		4.578	9.729
	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	0.300	1.717		1.717	3.434
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.510	2.919		3.205	6.123
	Item No. : 11 Transportation of earth Transportation charges							3.226		3.441	6.667
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.503			
	Deduction										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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11th D Branch near Hari Masjid 1.2m Dia MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurment		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D	Page	Quantity	
	Brick work	1		0.785	1.350	1.350	1.760		2.518	
	PCC	1		0.785	1.900	1.900	0.250		0.708	
	Soling	1		0.785	1.900	1.900	0.000		0.000	
									3.226	
									8.276	
									8.920	17.196
	DBR3									
	CH57.10	578.546	576.886	576.636			1.910			
	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	0.400		2.289	4.006
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									6.295
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.800		4.578	9.729
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									14.307
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300		1.717	3.434
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.410		2.346	6.123
	Item No. : 11 Transportation of earth Transportation charges								3.083	6.667
	Item No. 30 :- Refilling the excavated trenches ...									9.751
	Total Excavation=								10.930	
	Deduction									
	Brick work	1		0.785	1.350	1.350	1.660		2.375	
	PCC	1		0.785	1.900	1.900	0.250		0.708	
	Soling	1		0.785	1.900	1.900	0.000		0.000	
									3.083	
									7.847	
									17.196	25.043
	DBR4									
	CH83.30	578.456	577.006	576.756			1.700			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.400		2.289	6.295
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									8.584
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.800		4.578	14.307
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									18.885
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300		1.717	5.150
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.200		1.145	8.470
	Item No. : 11 Transportation of earth Transportation charges								2.783	9.751
	Item No. 30 :- Refilling the excavated trenches ...									12.534
	Total Excavation=								9.729	
	Deduction									
	Brick work	1		0.785	1.350	1.350	1.450		2.074	
	PCC	1		0.785	1.900	1.900	0.250		0.708	
	Soling	1		0.785	1.900	1.900	0.000		0.000	
									2.783	
									6.946	
									25.043	31.988



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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 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.

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

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14th D Branch near Hari Masjid 1.2m Dia MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EXL	L	B	D		Page	Quantity	
	DBR5										
	CH91.00	578.506	577.206	576.956			1.550				
	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	0.400	2.289		8.584	10.873
	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	0.800	4.578		18.885	23.463
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.050	0.286		0.572	0.858
	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	0.300	1.717		6.867	8.584
	Item No. : 11 Transportation of earth Transportation charges							2.568		12.534	15.102
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.870			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.300	1.860			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.568			
	Net Qty = A - B							6.302		31.988	38.290
	DBR6										
	CH113.70	578.616	577.286	577.036			1.580				
	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	0.400	2.289		10.873	13.162
	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	0.800	4.578		23.463	28.041
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.080	0.458		0.858	1.316
	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	0.300	1.717		8.584	10.301
	Item No. : 11 Transportation of earth Transportation charges							2.611		15.102	17.713
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.042			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.330	1.903			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.611			
	Net Qty = A - B							6.431		38.290	44.721
	DBR7										
	CH137.40	578.686	577.386	577.136			1.550				



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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 Sahin Ali. Construction, Erection, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main CRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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1st D Branch near Hari Masjid 1.2m Dia MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300	1.717		13.162	14.879
	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	0.900	5.150		28.041	33.191
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.050	0.286		1.316	1.602
	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	0.300	1.717		10.301	12.018
	Item No. : 11 Transportation of earth Transportation charges							2.568		17.713	20.282
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.870			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.300	1.860			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.568			
	DBR8							6.302		44.721	51.023
	CH148.10	578.776	577.426	577.176			1.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.300	1.717		14.879	16.596
	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	0.900	5.150		33.191	38.342
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.100	0.572		1.602	2.175
	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	0.300	1.717		12.018	13.734
	Item No. : 11 Transportation of earth Transportation charges							2.640		20.282	22.921
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.156			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.350	1.931			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.640			
	DBR9							6.516		51.023	57.539
	CH159.30	578.876	577.466	577.216			1.660				
	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	0.400	2.289		16.596	18.885



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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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12th D Branch near Hari Masjid 1.2m Dia MH Excavation

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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.800	4.578		38.342	42.920
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.160	0.916		2.175	3.090
	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	0.300	1.717		13.734	15.451
	Item No. : 11 Transportation of earth Transportation charges							2.726		22.921	25.647
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.500			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.410	2.017			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.726			
	Net Qty = A - B							6.774		57.539	64.313
	DBR10										
	CH178.00	579.056	577.536	577.286			1.770				
	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	0.400	2.289		18.885	21.174
	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	0.800	4.578		42.920	47.498
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.270	1.545		3.090	4.635
	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	0.300	1.717		15.451	17.168
	Item No. : 11 Transportation of earth Transportation charges							2.883		25.647	28.530
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.129			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.520	2.175			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.883			
	Net Qty = A - B							7.246		64.313	71.559
	DBR11										
	CH191.70	579.526	577.590	577.340			2.186				
	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	0.400	2.289		21.174	23.463
	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	0.800	4.578		47.498	52.076
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.100	0.572		4.635	5.208



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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 Ah. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshirawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshirawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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11th D Branch near Hari Masjid 1.2m Dia MH Excavation

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			0.785	7.290	0.300	1.717		17.168	18.885
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.586	3.353		9.614	12.968
	Item No. : 11 Transportation of earth Transportation charges							3.478		28.530	32.008
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.510			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.936	2.770			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								3.478			
	Net Qty = A - B							9.031		71.559	80.590
	DBR12										
	CH208.90	579.556	578.056	577.806			1.750				
	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		23.463	26.324
	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	0.800	4.578		52.076	56.654
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.100	0.572		5.208	5.780
	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	0.200	1.145		18.885	20.029
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.150	0.858		12.968	13.826
	Item No. : 11 Transportation of earth Transportation charges							2.854		32.008	34.863
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.015			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.500	2.146			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.854			
	Net Qty = A - B							7.160		80.590	87.751
	DBR13										
	CH217.60	579.646	578.336	578.086			1.560				
	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	0.600	3.434		26.324	29.758
	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	0.750	4.292		56.654	60.946
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.060	0.343		5.780	6.123
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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12th D Branch near Harl Masjid 1.2m Dia MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last		Total Upto Date	
		No			L	B	D		Page	Quantity		Quantity
		GL	IL	EX.L								
	(a) For Lift 0 to 1.5m	1			0.785	7.290	0.150	0.858		20.029	20.888	
	Item No. : 11 Transportation of earth Transportation charges							2.583		34.863	37.446	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=							8.927				
	Deduction											
	Brick work	1		0.785	1.350	1.350	1.310	1.874				
	PCC	1		0.785	1.900	1.900	0.250	0.708				
	Soling	1		0.785	1.900	1.900	0.000	0.000				
								2.583				
		Net Qty = A - B						6.345		87.751	94.095	
	DBR14											
	CH223.80	579.856	578.486	578.236			1.620					
	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		29.758	32.619	
	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		60.946	65.810	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.120	0.687		6.123	6.810	
	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		20.888	21.746	
	Item No. : 11 Transportation of earth Transportation charges							2.668		37.446	40.114	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=							9.271				
	Deduction											
	Brick work	1		0.785	1.350	1.350	1.370	1.960				
	PCC	1		0.785	1.900	1.900	0.250	0.708				
	Soling	1		0.785	1.900	1.900	0.000	0.000				
								2.668				
		Net Qty = A - B						6.602		94.095	100.697	
	DBR15											
	CH232.50	579.886	578.526	578.276			1.610					
	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		32.619	35.480	
	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		65.810	70.675	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.110	0.629		6.810	7.439	
	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		21.746	22.604	
	Item No. : 11 Transportation of earth Transportation charges							2.654		40.114	42.768	
	Item No. 30 :- Refilling the excavated trenches ...											



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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11th D Branch near Harl Masjid 1.2m Dia MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Total Excavation=							9.213			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.360	1.946			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.654			
								6.559		100.697	107.257
	DBR16										
	CH239.20	579.986	578.726	578.476			1.510				
	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		35.480	38.342
	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		70.675	75.539
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.010	0.057		7.439	7.497
	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		22.604	23.463
	Item No. : 11 Transportation of earth Transportation charges							2.511		42.768	45.279
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction							8.641			
	Brick work	1		0.785	1.350	1.350	1.260	1.803			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.511			
								6.130		107.257	113.387
	DBR17										
	CH247.90	580.246	579.050	578.800			1.446				
	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	0.150	0.858		38.342	39.200
	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	0.700	4.006		75.539	79.545
	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	0.596	3.411		23.463	26.874
	Item No. : 11 Transportation of earth Transportation charges							2.420		45.279	47.699
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction							8.275			
	Brick work	1		0.785	1.350	1.350	1.196	1.711			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.420			



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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.

Book No. :- 131

Page No. :-

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

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12h D Branch near Hari Masjid 1.2m Dia MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EXL	L	B	D		Page	Quantity	
		Net Qty = A - B						5.855		113.387	119.242
	DBR18										
	CH264.10	580.426	579.146	578.896			1.530				
	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	0.200	1.145		39.200	40.345
	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	0.700	4.006		79.545	83.551
	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	0.600	3.434		26.874	30.307
	(b) For Lift 1.5m to 3.0m	1			0.785	7.290	0.030	0.172		13.826	13.998
	Item No. : 11 Transportation of earth Transportation charges							2.540		47.699	50.239
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.756			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.280	1.831			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.540			
		Net Qty = A - B						6.216		119.242	125.458
	DBR19										
	CH270.30	580.456	579.256	579.006			1.450				
	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	0.200	1.145		40.345	41.489
	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	0.700	4.006		83.551	87.557
	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	0.550	3.147		30.307	33.455
	Item No. : 11 Transportation of earth Transportation charges							2.425		50.239	52.664
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.298			
	Deduction										
	Brick work	1		0.785	1.350	1.350	1.200	1.717			
	PCC	1		0.785	1.900	1.900	0.250	0.708			
	Soling	1		0.785	1.900	1.900	0.000	0.000			
								2.425			
		Net Qty = A - B						5.873		125.458	131.331
	0.9 Dia MH -1 Nos(MH01)										
	CH0.00	580.456	579.206	578.956			1.500				



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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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11th D Branch near Hari Masjid 1.2m Dia MH Excavation

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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.500	4.710		41.489	46.199
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000		87.557	87.557
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.000	0.000		7.497	7.497
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000		33.455	33.455
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.000	0.000		13.998	13.998
	Item No. : 11 Transportation of earth Transportation charges							1.915		52.664	54.579
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.710			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.250	1.413			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Soling	1		0.785	1.600	1.600	0.000	0.000			
								1.915			
								2.795			
		Net Qty = A - B								131.331	134.125



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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 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 RP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to TP 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

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D Branch near Hari Masjid Extra Work

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12th RA BILL MEASUREMENTS

D'BRANCH NEAR HARRI MASJID (Extra Work)								
Sr. No.	Descriptions of Items	Nos	L	B	D	Unit	Qty	Total Qty.
A	400mm Dia Line:- Connection of DI Pipe (Water Line) Laying & Jointing							
1	Item No:- 18:- Providing and Laying DI Pipe (DI K9)							
	a) 150mm Dia.	1	35.00			Rmt	35.00	35.000



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AURANGABAD MUNICIPAL CORPORATION.

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11th D Branch near Hari Masjid Manhole

11th R A BILL MEASUREMENTS D'BRANCH NEAR HARRI MASJID

A		Item No:21 Providing and constructing on sewer.BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0M etc., complete							
SR NO	Reference (MB no. & Page no.)	CHAMBER NUMBER	Chainage	DETAILS			Rebate up to Depth of 2.0 mtr		Total Rebate Qty for 50 cm
				No			For per 50 cm		
				GL	IL	DEPTH			
1		DBR1	CH11.20	578.696	576.786	1.910	2	-0.090	-21.196
2		DBR2	CH34.90	578.576	576.816	1.760	2	-0.240	
3		DBR3	CH57.10	578.546	576.886	1.660	2	-0.340	
4		DBR4	CH83.30	578.456	577.006	1.450	2	-0.550	
5		DBR5	CH91.00	578.506	577.206	1.300	2	-0.700	
6		DBR6	CH113.70	578.616	577.286	1.330	2	-0.670	
7		DBR7	CH137.40	578.686	577.386	1.300	2	-0.700	
8		DBR8	CH148.10	578.776	577.426	1.350	2	-0.650	
9		DBR9	CH159.30	578.876	577.466	1.410	2	-0.590	
10		DBR10	CH178.00	579.056	577.536	1.520	2	-0.480	
11		DBR11	CH191.70	579.526	577.590	1.936	2	-0.064	
12		DBR12	CH208.90	579.556	578.056	1.500	2	-0.500	
13		DBR13	CH217.60	579.646	578.336	1.310	2	-0.690	
14		DBR14	CH223.80	579.856	578.486	1.370	2	-0.630	
15		DBR15	CH232.50	579.886	578.526	1.360	2	-0.640	
16		DBR16	CH239.20	579.986	578.726	1.260	2	-0.740	
17		DBR17	CH247.90	580.246	579.050	1.196	2	-0.804	
18		DBR18	CH264.10	580.426	579.146	1.280	2	-0.720	
19		DBR19	CH270.30	580.456	579.256	1.200	2	-0.800	
Total								-10.598	-21.196

SR NO	Reference (MB no. & Page no.)	MH NO	CHAINAGE	DETAILS			Rebate up to Depth of 1.5 mtr		Total Rebate Qty for 30 cm
				No			For per 30 cm		
				GL	IL	DEPTH			
A	Extra Item No 02: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 m etc., complete								
1		DBR20	CH0.000	580.456	579.206	1.250	1.500	-0.250	-0.833
								-0.250	-0.833



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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 to

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Date of Measurement

12th D Branch near Harl Masjid Quantity Node Abstract

12th R A BILL MEASUREMENTS

D'BRANCH NEAR HARRI MASJID

SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7	ITEM 11	ITEM 12			ITEM 13			ITEM 17
			0-1.5		0-1.5	1.5-3.0	0-1.5	1.5-3.0			200mm	250mm	315mm	200mm	250mm	315mm	400mm
1	For Pipe		140.78		258.940	10.932	100.465	44.587	59.072	116.720	6.000	8.300	16.300	6.000	8.300	16.300	264.700
2	For Manhole		46.199		87.557	7.497	33.455	13.998		54.579							
	Total		186.981		346.497	18.429	133.919	58.585	59.072	171.299	6.000	8.300	16.300	6.000	8.300	16.300	264.700



Total up to Date

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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
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
Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main
PDI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to
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/UIDSSMT/2014/184 Date 01.07.2014

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12th D Branch near Hari Masjid Quantity Node Abstract

12th R A BILL MEASUREMENTS											
D'BRANCH NEAR HARRI MASJID											
SR NO	Description	MB/PG	ITEM 18	ITEM 19	ITEM 21	ITEM 21.1		ITEM 30	ITEM 35	EIRL 2	
			150mm	150mm	upto 2 m	Rebate				Full Rate	EIRL 2.a
											Rebate
											160mm
											160mm
											PVC Pipes
1	For Pipe		35.000	35.000				438.987	0.060		14.100
2	For Manhole				19.000	(21.196)		134.125		1.000	(0.833)
	Total		35.000	35.000	19.000	-21.196		573.112	0.060	1.000	-0.833
											14.100

