

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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Sillekhana-04 - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			4.600			4.600		49.050	53.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.888			
	Deduction										
	pipe area	1		0.785	4.100	0.220	0.220	0.156			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.303			
								0.459			
		Net Qty = A - B						2.429		28.769	31.197
	SK 08 to SK 09										
	CH60.85	577.365	576.325	576.225			1.140	1.060			
	CH66.85	577.395	576.515	576.415			0.980				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	1.060	3.138		30.394	33.531
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.600	0.740	0.100	0.340		3.674	4.015
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.515		5.561	6.076
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.100			5.100		53.650	58.750
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.138			
	Deduction										
	pipe area	1		0.785	4.600	0.220	0.220	0.175			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.340			
								0.515			
		Net Qty = A - B						2.622		31.197	33.820
	SK 09 to SK 10										
	CH66.85	577.395	576.515	576.415			0.980	0.960			
	CH76.65	577.515	576.675	576.575			0.940				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.800	0.740	0.960	5.541		33.531	39.073
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.400	0.740	0.100	0.622		4.015	4.636



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Sillekhana-04 - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges Including loading & unloading							0.941		6.076	7.016
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.900			8.900		58.750	67.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.541			
	Deduction										
	pipe area	1		0.785	8.400	0.220	0.220	0.319			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.622			
								0.941			
		Net Qty = A - B						4.600		33.820	38.420
	SK 10 to SK 11										
	CH76.65	577.515	576.675	576.575			0.940	0.790			
	CH83.45	577.265	576.725	576.625			0.640				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.800	0.740	0.790	2.806		39.073	41.879
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.400	0.740	0.100	0.400		4.636	5.036
	Item No. : 11 Transportation of earth Transportation charges Including loading & unloading							0.605		7.016	7.621
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene,SW pipe of 200mm Dia	1			5.900			5.900		67.650	73.550
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.806			
	Deduction										
	pipe area	1		0.785	5.400	0.220	0.220	0.205			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.400			
								0.605			
		Net Qty = A - B						2.201		38.420	40.621
	SK 05 to SK 05/01										
	CH0.00	577.145	575.915	575.815			1.330	1.133			
	CH11.75	577.645	576.810	576.710			0.935				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.050	0.740	1.133	8.422		41.879	50.301



Signature



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

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Sillekhana-04 - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.350	0.740	0.100	0.766		5.036	5.802
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.159		7.621	8.780
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			10.850			10.850		73.550	84.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.422			
	Deduction										
	pipe area	1		0.785	10.350	0.220	0.220	0.393			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.766			
								1.159			
		Net Qty = A - B						7.263		40.621	47.885
	SK 05/01 to SK 05/02										
	CH11.75	577.645	576.810	576.710			0.935				
	CH20.35	578.155	577.485	577.385			0.770	0.853			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.600	0.740	0.853	4.164		50.301	54.465
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.200	0.740	0.100	0.533		5.802	6.334
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.806		8.780	9.587
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			7.700			7.700		84.400	92.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.164			
	Deduction										
	pipe area	1		0.785	7.200	0.220	0.220	0.274			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.533			
								0.806			
		Net Qty = A - B						3.357		47.885	51.242
	SK 07 to SK 07/01										
	CH0.00	577.275	576.285	576.185			1.090				
	CH9.90	577.645	576.710	576.610			1.035	1.063			



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Sillekhana-04 - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Qty.	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.200	0.740	1.063	6.447		54.465	60.912
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.500	0.740	0.100	0.629		6.334	6.963
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.952		9.587	10.539
	Extra Item 9.2 (c) :- Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			9.000			9.000		92.100	101.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.447			
	Deduction										
	pipe area	1		0.785	8.500	0.220	0.220	0.323			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.629			
								0.952			
	Net Qty = A - B							5.495		51.242	56.737
	SK 07/01 to SK 07/02										
	CH9.90	577.645	576.710	576.610			1.035	1.035			
	CH20.75	577.645	576.710	576.610			1.035				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.850	0.740	1.035	6.778		60.912	67.690
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.450	0.740	0.100	0.699		6.963	7.663
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.058		10.539	11.597
	Extra Item 9.2 (c) :- Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			9.950			9.950		101.100	111.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.778			
	Deduction										
	pipe area	1		0.785	9.450	0.220	0.220	0.359			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.699			
								1.058			
	Net Qty = A - B							5.720		56.737	62.457
	SK 11 to SK 11/01										



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Sillekhana-04 - Pipe Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	CH0.00	577.265	576.725	576.625			0.640	0.630			
	CH12.00	577.365	576.845	576.745			0.620				
	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	0.740	0.630	5.128		67.690	72.818
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.300	0.740	0.100	0.836		7.663	8.499
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.266		11.597	12.863
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			11.800			11.800		111.050	122.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.128			
	Deduction										
	pipe area	1		0.785	11.300	0.220	0.220	0.429			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.836			
								1.266			
		Net Qty = A - B						3.863		62.457	66.320
	SK 11/01 to SK 11/02										
	CH12.00	577.365	576.845	576.745			0.620	0.610			
	CH21.50	577.465	576.965	576.865			0.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.900	0.740	0.610	4.017		72.818	76.836
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.900	0.740	0.000	0.000		3.818	3.818
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.900	0.740	0.000	0.000		2.546	2.546
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.500	0.740	0.100	0.703		8.499	9.202
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.064		12.863	13.926
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			10.000			10.000		122.850	132.850



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Sillekhana-04 - Meas.Chamber

14th RA BILL MEASUREMENTS OF CHAMBERS SILLEKHANA - 04

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m										
	Bredth for chember up to 1.5m=2 X 2=4m										
	SK 1										
	CH9.70	575.535	574.570	574.320			1.215				
	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	0.965	3.030		0.000	3.030
	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	0.150	0.471		0.000	0.471
	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	0.100	0.314		0.000	0.314
	Item No. : 11 Transportation of earth Transportation charges							1.593		0.000	1.593
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.815			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.965	1.091			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.593			
	Net Qty = A - B							2.222		0.000	2.222
	SK 2										
	CH19.05	575.865	574.905	574.655			1.210				
	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	0.960	3.014		3.030	6.044
	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	0.150	0.471		0.471	0.942
	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	0.100	0.314		0.314	0.628
	Item No. : 11 Transportation of earth Transportation charges							1.588		1.593	3.181



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Sillekhana-04 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Qty.	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.799			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.960	1.085			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.588			
	Net Qty = A - B							2.212	2.222		4.434
	SK 3										
	CH29.40	576.235	575.325	575.075			1.160				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.910	2.857		6.044	8.902
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		0.942	1.413
	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	0.100	0.314		0.628	0.942
	Item No. : 11 Transportation of earth Transportation charges							1.531		3.181	4.712
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.642			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.910	1.029			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.531			
	Net Qty = A - B							2.111	4.434		6.545
	SK 4										
	CH36.95	576.765	575.545	575.295			1.470				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.220	3.831		8.902	12.733
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		1.413	1.884
	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	0.100	0.314		0.942	1.256
	Item No. : 11 Transportation of earth Transportation charges							1.881		4.712	6.593



Signature

Signature



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Sillekhana-04 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Qty.	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.616			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.220	1.379			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.881			
	Net Qty = A - B							2.734			
	SK 5								6.545		9.278
	CH44.10	577.145	575.915	575.665			1.480				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.230	3.862		12.733	16.595
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		1.884	2.355
	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	0.100	0.314		1.256	1.570
	Item No. : 11 Transportation of earth Transportation charges							1.893		6.593	8.486
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.647			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.230	1.390			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.893			
	Net Qty = A - B							2.754		9.279	12.034
	SK 6										
	CH52.45	577.175	576.145	575.895			1.280				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.280	4.019		16.595	20.614
	Item No. : 11 Transportation of earth Transportation charges							1.667		8.486	10.153
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.019			
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.030	1.164			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

re of work:- Development of Underground Sewerage Collection system for Zone I to VI Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth len, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward 8 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Sillekhana-04 - Meas.Chamber

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Up to Date Quantity
		GL	No IL	EX.L	L	B	D	Page	Qty.	
	Total (B)							1.667		
								2.352	12.034	14.386
	SK 7									
	CH55.35	577.275	576.285	576.035			1.240			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.240	3.894	20.614	24.508
	Item No. : 11 Transportation of earth Transportation charges							1.621	10.153	11.774
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							3.894		
	Deduction									
	Brick work	1		0.785	1.200	1.200	0.990	1.119		
	soling							0.000		
	PCC	1		0.785	1.600	1.600	0.250	0.502		
	Murrum bedding							0.000		
	Total (B)							1.621		
								2.272	14.386	16.658
	SK 8									
	CH60.85	577.365	576.325	576.075			1.290			
	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	1.290	4.051	24.508	28.558
	Item No. : 11 Transportation of earth Transportation charges							1.678	11.774	13.452
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							4.051		
	Deduction									
	Brick work	1		0.785	1.200	1.200	1.040	1.176		
	soling							0.000		
	PCC	1		0.785	1.600	1.600	0.250	0.502		
	Murrum bedding							0.000		
	Total (B)							1.678		
								2.373	16.658	19.031
	SK 9									
	CH66.85	577.395	576.515	576.265			1.130			
	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	1.130	3.548	28.558	32.106
	Item No. : 11 Transportation of earth Transportation charges							1.497	13.452	14.950
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							3.548		
	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, 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.

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Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Brick work	1		0.785	1.200	1.200	0.880	0.995			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.497			
		Net Qty = A - B						2.051		19.031	21.082
	SK 10										
	CH76.65	577.515	576.675	576.425			1.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.090	3.423		32.106	35.529
	Item No. : 11 Transportation of earth Transportation charges							1.452		14.950	16.401
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.423			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.840	0.950			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.452			
		Net Qty = A - B						1.971		21.082	23.053
	SK 11										
	CH83.45	577.265	576.725	576.475			0.790				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.790	2.481		35.529	38.010
	Item No. : 11 Transportation of earth Transportation charges							1.113		16.401	17.514
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.481			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.540	0.610			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.113			
		Net Qty = A - B						1.368		23.053	24.420
	SK 5.1										
	CH11.75	577.645	576.810	576.560			1.085				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.085	3.407		38.010	41.417
	Item No. : 11 Transportation of earth Transportation charges							1.446		17.514	18.961



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.407			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.835	0.944			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.446			
		Net Qty = A - B						1.961		24.420	26.381
	SK 5.2										
	CH20.35	578.155	577.485	577.235			0.920				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.920	2.889		41.417	44.305
	Item No. : 11 Transportation of earth Transportation charges							1.260		18.961	20.220
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.889			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.670	0.757			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.260			
		Net Qty = A - B						1.629		26.381	28.010
	SK 7.1										
	CH9.90	577.645	576.710	576.460			1.185				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.185	3.721		44.305	48.026
	Item No. : 11 Transportation of earth Transportation charges							1.559		20.220	21.780
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.721			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.935	1.057			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.559			
		Net Qty = A - B						2.162		28.010	30.172
	SK 7.2										
	CH20.75	577.645	576.710	576.460			1.185				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										



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

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

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

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.185	3.721		48.026	51.747
	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		2.355	2.355
	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		1.570	1.570
	Item No. : 11 Transportation of earth Transportation charges							1.559		21.780	23.339
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.721			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.935	1.057			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
								1.559			
	Total (B)							2.162		30.172	32.333
		Net Qty = A - B									



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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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Sillekhana-04 - Manhole Details

Date
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12th R A BILL MEASUREMENTS								
Branch Sewer at SILLEKHANA - 04								
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								
Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1	CH 9.70	SK 1	575.535	574.570	0.965	-0.535	-8.520	-28.400
2	CH 19.05	SK 2	575.865	574.905	0.960	-0.540		
3	CH 29.40	SK 3	576.235	575.325	0.910	-0.590		
4	CH 36.95	SK 4	576.765	575.545	1.220	-0.280		
5	CH 44.10	SK 5	577.145	575.915	1.230	-0.270		
6	CH 52.45	SK 6	577.175	576.145	1.030	-0.470		
7	CH 55.35	SK 7	577.275	576.285	0.990	-0.510		
8	CH 60.85	SK 8	577.365	576.325	1.040	-0.460		
9	CH 66.85	SK 9	577.395	576.515	0.880	-0.620		
10	CH 76.65	SK 10	577.515	576.675	0.840	-0.660		
11	CH 83.45	SK 11	577.265	576.725	0.540	-0.960		
12	CH 11.75	SK 5.1	577.645	576.810	0.835	-0.665		
13	CH 20.35	SK 5.2	578.155	577.485	0.670	-0.830		
14	CH 9.90	SK 7.1	577.645	576.710	0.935	-0.565		
15	CH 20.75	SK 7.2	577.645	576.710	0.935	-0.565		
Total								-28.400



Signature



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Sillekhana-04BBM Work

12th R A BILL MEASUREMENTS OF BBM TRENCH FOR SILLEKHANA - 04

Date	Particulars of work	DETAILS				Content of arrears	Last measurment		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
1	0.60m x 0.45m x 0.23m thickness RECT MH-02								
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.								
	(a) Long Wall	4	1.060	0.250	0.562	0.596		0.000	0.596
	(b) Short Wall	4	0.450	0.250	0.562	0.253		0.000	0.253
						0.849		0.000	0.849
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.								
	(a) Long Wall	4	0.600		0.562	1.349		0.000	1.349
	(b) Short Wall	4	0.450		0.562	1.012		0.000	1.012
						2.360		0.000	2.360
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.								
	(a) Long Wall	4	1.060		0.562	2.383		0.000	2.383
	(b) Short Wall	4	0.910		0.562	2.046		0.000	2.046
						4.429		0.000	4.429
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.								
	(a) Long Wall Internal	4	0.600	0.000	0.562	1.349		0.000	1.349
	(b) Short Wall Internal	4	0.450	0.000	0.562	1.012		0.000	1.012
	(c) Long Wall External	4	1.060	0.000	0.562	2.383		0.000	2.383
	(d) Short Wall External	4	0.910	0.000	0.562	2.046		0.000	2.046
						6.789		0.000	6.789
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.								
	PCC	2	1.260	1.110	0.150	0.420		0.000	0.420
	Manhole Cover								
	Extra item 9.8 (a) providing & Fixing SFRC manhole cover of Size 0.6mx0.45m	2				2.000		0.000	2.000



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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 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 Agent

Authority No

Date of Measurement	
1	

Sillekhana-04 Quantity Note Abstract

10th R A BILL MEASUREMENTS

Branch Sewer at SILLEKHANA - 04

SR NO	Description	MB/PG	ITEM 1	ITEM 2	ITEM 4		ITEM 7	ITEM 11	ITEM 30	EIRL 2		EIRL 4						EIRL 5		EIRL 9.1		EIRL 9.2		EIRL 9.8
			0-1.5	0-1.5	0-1.5					Full Rate	Rebate	a	b	c	d	e	f	200mm	200mm				a	
1	For Pipe		76.836	3.818	2.546	9.202	13.926	69.273									132.850						0.6X0.45	
2	For Manhole		51.747	2.355	1.570		23.339	32.333		15.000	(28.400)	0.849	2.360	4.429	6.789	0.420								
	Total		128.583	6.173	4.116	9.202	37.265	101.607		15.000	(28.400)	0.849	2.360	4.429	6.789	0.420	132.850						2.000	
																							2.000	

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ment	Quantity	Total up to Date
9		10

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 Nakshirawadi (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 Nakshirawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Pipe lying MB Anand Apartment

11th RA BILL MEASUREMENTS DWG PIPE ANAAND APARTMENT

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 315mm Dia										
	315mm dia (Width of Trench -0.315+0.5=0.815m)										
	For Width of Trench	For Depth					0.0m to 1.5m	0.0m to 3.0m	0.0m to 4.5m		
	Calculation Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.	For Lift 0.0m to 1.5m					0.815	1.215	1.615		
		For Lift 1.5m to 3.0m						0.815	1.215		
		For Lift 3.0m to 4.5m							0.815		
	AND 10 To AND 11										
	CH0.00	578.238	577.418	577.318			0.920	0.915			
	CH15.80	578.238	577.428	577.328			0.910				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.100	0.815	0.915	10.515		0.000	10.515
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.400	0.815	0.100	1.174		0.000	1.174
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.295		0.000	2.295
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			14.900			14.900		0.000	14.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.515			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	14.400	0.315	0.315	1.122			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.174			
								2.295			
		Net Qty = A - B						8.219		0.000	8.219
	AND 11 To AND 12										
	CH15.80	578.238	577.428	577.328			0.910	1.005			
	CH29.40	578.508	577.508	577.408			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	0.815	1.005	9.501		10.515	20.016
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.200	0.815	0.100	0.994		1.174	2.168
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.945		2.295	4.240



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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 nine line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Pipe lying MB Anand Apartment

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			12.700			12.700		14.900	27.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.501			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	12.200	0.315	0.315	0.950			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.994			
								1.945			
		Net Qty = A - B						7.557		8.219	15.776
20/9/16	AND 12 To AND 13										
	CH29.40	578.508	577.508	577.408			1.100	0.930			
	CH32.10	578.258	577.598	577.498			0.760				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.700	0.815	0.930	0.531		20.016	20.542
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.300	0.815	0.100	0.106		2.168	2.274
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.207		4.240	4.447
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			1.800			1.800		27.600	29.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.531			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	1.300	0.315	0.315	0.101			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.106			
								0.207			
		Net Qty = A - B						0.323		15.776	16.100
23/9/16	AND 11 To AND 11.1										
	CH0.00	578.238	577.428	577.328			0.910	1.050			
	CH21.70	578.178	577.088	576.988			1.190				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.000	0.815	1.050	17.115		20.547	37.662
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.300	0.815	0.100	1.654		2.274	3.928
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.236		4.447	7.683



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Pipe lying MB Anand Apartment

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			20.800			20.800		29.400	50.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.115			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	20.300	0.315	0.315	1.581			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.654			
								3.236			
	Net Qty = A - B							13.879		16.100	29.979
24/9/16	AND 11.2 To AND 11.3										
	CH28.50	578.098	577.018	576.918			1.180	1.200			
	CH35.50	578.098	576.978	576.878			1.220				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	0.815	1.200	4.890		37.662	42.552
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.600	0.815	0.100	0.456		3.928	4.385
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.893		7.683	8.575
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			6.100			6.100		50.200	56.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.890			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	5.600	0.315	0.315	0.436			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.456			
								0.893			
	Net Qty = A - B							3.997		29.979	33.976
24/9/16	AND 11.3 To AND 11.4										
	CH35.50	578.098	576.978	576.878			1.220	1.390			
	CH44.30	578.148	576.688	576.588			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			6.800	0.815	1.390	7.703		42.552	50.255
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.400	0.815	0.100	0.603		4.385	4.988
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.179		8.575	9.755



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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

Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

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Pipe lying MB Anand Apartment

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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							
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.900			7.900		56.300	64.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.703			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	7.400	0.315	0.315	0.576			
	soling							0.000			
	PCC							0.603			
	Murum bedding							1.179			
								6.524		33.976	40.500
		Net Qty = A - B									



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, 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 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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Pipe lying MB Anand Apartment

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14th RA BILL MEASUREMENTS DWG PIPE ANAAND APARTMENT

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 200mm Dia										
	200mm dia (Width of Trench -0.200+0.5=0.700m)										
											</



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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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Pipe lying MB Anand Apartment

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.700	0.700	0.100	1.029		0.994	2.023
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.700	0.700	0.060	0.617		0.596	1.214
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.300	0.700	0.100	1.071		6.024	7.095
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.551		11.255	12.807
	Item No. 13 :- (B)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			15.800			15.800		15.300	31.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.136			
	Deduction of 200mm dia pipe										
	pipe area	1.000		0.785	15.300	0.200	0.200	0.480			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.071			
								1.551			
		Net Qty = A - B						8.584		47.796	56.381
10/10	AND 15 To AND 16										
	CH65.00	578.658	577.798	577.698			0.960	0.920			
	CH77.80	578.748	577.968	577.868			0.880				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	0.700	0.760	5.746		65.951	71.696
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	0.700	0.100	0.756		2.023	2.779
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.800	0.700	0.060	0.454		1.214	1.667
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.400	0.700	0.100	0.798		7.095	7.893
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.156		12.807	13.963
	Item No. 13 :- (B)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			11.900			11.900		31.100	43.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.955			



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Continued in MB 4590



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 C.R.P.D line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Pipe lying MB Anand Apartment

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Deduction of 200mm dia pipe										
	pipe area	1.000		0.785	11.400	0.200	0.200	0.358			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.798			
								1.156			
		Net Qty = A - B						5.799		56.381	62.180
11/11/16	AND 16 To AND 17										
	CH77.80	578.748	577.968	577.868			0.880	0.870			
	CH91.20	578.758	577.998	577.898			0.860				
	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	0.700	0.710	5.666		71.696	77.362
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	0.700	0.100	0.798		2.779	3.577
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	0.700	0.060	0.479		1.667	2.146
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.000	0.700	0.100	0.840		7.893	8.733
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.217		13.963	15.180
	Item No. 13 :- (B)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			12.500			12.500		43.000	55.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.943			
	Deduction of 200mm dia pipe										
	pipe area	1.000		0.785	12.000	0.200	0.200	0.377			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.840			
								1.217			
		Net Qty = A - B						5.726		62.180	67.906
11/11/16	AND 13 To AND 13.1										
	CH0.00	578.258	577.598	577.498			0.760	0.780			
	CH9.60	578.138	577.438	577.338			0.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.900	0.700	0.620	3.429		77.362	80.791
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.900	0.700	0.100	0.553		3.577	4.130



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