



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta. Ward 6, 9 and CIDCO (Airport). Providing lowering, laying jointing and testing rising main

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L Sewer DWC connection, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	For Lift 1.5 to 3.0m- 0.200+0.5+0.4=1.10m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.500m										
12/08/16	RMU 5										
	CH50.00	591.860	591.060	590.960			0.900	0.875			
	CH59.00	591.860	591.110	591.010			0.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.0	0.700	0.875	4.288	98.058	102.345	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.6	0.815	0.100	0.619	8.217	8.836	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.858	15.069	15.927	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.10			8.100	0.000	8.100	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.288			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	7.60	0.200	0.200	0.24			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.62			
								0.86			
	Net Qty = A - B							3.43	97.45	100.88	
12/08/16	RMU 6										
	CH59.00	591.860	591.110	591.010			0.850	0.875			
	CH65.00	591.940	591.140	591.040			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.0	0.700	0.875	2.450	102.345	104.795	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.6	0.815	0.100	0.375	8.836	9.211	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.519	15.927	16.447	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			5.10			5.100	8.100	13.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.450			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	4.60	0.200	0.200	0.14			
	soling							0.00			
	PCC							0.00			



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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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L Sewer DWC connection, Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Murram bedding						0.37				
							0.52				
	Net Qty = A - B						1.93	100.88	102.81		
12/08/16	RMU 7										
	CH65.00	591.940	591.140	591.040			0.900	0.850			
	CH70.00	591.870	591.170	591.070			0.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			3.0	0.700	0.850	1.785	104.795	106.580	
	(b) For Lift 1.5m to 3.0m	1			3.0	0.700	0.000	0.000	9.054	9.054	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			3.0	0.700	0.000	0.000	5.412	5.412	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.6	0.815	0.100	0.293	9.211	9.505	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.406	16.447	16.853	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.10			4.100	13.200	17.300	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						1.785				
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	3.60	0.200	0.200	0.11			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.29			
							0.41				
	Net Qty = A - B						1.38	102.81	104.19		



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I Sewer DWC connection, connection

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.450	18.503	19.953	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			9.60			9.600	72.350	81.950	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.265			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	9.10	0.315	0.315	0.71			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.74			
								1.45			
								6.81	111.59	118.40	
	Net Qty = A - B										
14/04/16	LM-18 TO LM 18.1A										
	CH0.00	584.773	583.780	583.680			1.093				
	CH5.00	584.990	583.800	583.700			1.290	1.192			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.0	0.815	1.192	2.914	123.887	126.802	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.6	0.815	0.100	0.293	11.090	11.383	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.574	19.953	20.527	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			4.10			4.100	81.950	86.050	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.914			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	3.60	0.315	0.315	0.28			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.29			
								0.57			
	Net Qty = A - B							2.34	118.40	120.74	
14/04/16	LM-28 TO LM 28.1										
	CH0.00	590.560	589.560	589.460			1.100	1.175			
	CH9.00	590.700	589.550	589.450			1.250				



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

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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		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			7.1	0.815	1.175	6.751		126.802	133.553
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.4	0.815	0.100	0.599		11.383	11.982
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.172		20.527	21.699
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.80			7.800		86.050	93.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=,							6.751			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	7.35	0.315	0.315	0.57			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.60			
								1.17			
	Net Qty = A - B							5.58		120.74	126.32
	300mm Dia. R.C.C PIPES										
	Width of Trench -										
	For Bottom Lift 0.00-1.50m- 0.3+0.08+0.08+0.5=0.96m										
	From Bottom Lift 1.50m-3.00m- 0.3+0.08+0.08+0.5+0.4=1.36m										
	From Bottom Lift 3.00m-4.50m- 0.3+0.08+0.08+0.5+0.4+0.4=1.76m										
14/04/16	LM-28.1 TO LM 28,2										
	CH9.00	590.700	589.550	589.350			1.350	1.720			
	CH19.90	591.500	589.610	589.410			2.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.9	1.360	1.500	18.156		133.553	151.709
	(b) For Lift 1.5m to 3.0m	1			8.9	0.960	0.220	1.880		9.054	10.934
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.5	0.960	0.200	1.824		11.982	13.806



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AURANGABAD MUNICIPAL CORPORATION.

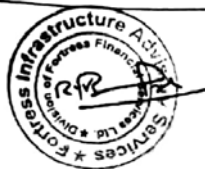
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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.901		21.699	24.599
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1						0.000		93.850	93.850
	Extra Item No.9.3 (c) :- Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			10.00			10.000		0.000	10.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.036			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	9.50	0.380	0.380	1.08			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.82			
								2.90			
	Net Qty = A - B							17.13		126.32	143.45
14/04/16	LM-28.2 TO LM 28.3										
	CH19.90	591.500	589.610	589.410							
	CH33.30	591.530	589.680	589.480			2.090	2.070			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.						2.050				
	(a) For Lift 0 to 1.5m	1			11.4	1.360	1.500	23.256		151.709	174.965
	(b) For Lift 1.5m to 3.0m	1			11.4	0.960	0.470	5.144		10.934	16.078
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.0	0.960	0.200	2.304		13.806	16.110
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.664		24.599	28.264
	Extra Item No.9.3 (c) :- Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			12.50			12.500		10.000	22.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.400			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	12.00	0.380	0.380	1.36			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.30			
								3.66			
	Net Qty = A - B							24.74		143.45	168.19
	400mm Dia. Connection										



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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5±1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0 m										
	NLM-29 TO NLM 29.1						1.500	1.523			
	CH0.00	591.000	589.600	589.500							
	CH5.45	591.065	589.620	589.520			1.545				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.8	1.200	1.500	8.550	174.965	183.515	
	(b) For Lift 1.5m to 3.0m	1			4.8	1.200	0.023	0.131	16.078	16.209	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.8	1.200	0.100	0.570	16.110	16.680	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.698	28.264	29.962	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1						0.000	93.850	93.850	
	Item No.17 :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			5.00			5.000	0.000	5.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.681			
	Deduction of 400mm dia pipe										
	pipe area	1.00		0.785	4.75	0.550	0.550	1.13			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.57			
								1.70			
	Net Qty = A - B							6.98	168.19	175.17	
	DWC - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.5=0.750m										
	For Lift 1.5 to 3.00m- 0.250+0.5+0.4=1.15m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.4+0.4=1.55m										
14/04/16	LM 16 TO LM 16.1										
	CH0.00	586.085	584.885	584.785			1.300	1.250			
	CH5.00	586.010	584.910	584.810			1.200				





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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		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			3.4	0.750	1.250	3.141		183.515	186.655
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.4	0.750	0.100	0.251		16.680	16.931
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.416		29.962	30.377
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			3.80			3.800		46.250	50.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.141			
	Deduction of 400mm dia pipe										
	pipe area	1.00		0.785	3.35	0.250	0.250	0.16			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.25			
								0.42			
	Net Qty = A - B							2.73		175.17	177.90
	DWC - 200 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m- 0.200+0.5+0.4=1.10m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.500m										
14/04/16	LM-21 TO LM 21.1										
	CH0.00	586.190	584.980	584.880				1.310	1.355		
	CH19.20	586.349	585.049	584.949				1.400			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.6	0.700	1.355	16.646		186.655	203.302
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.6	0.700	0.100	1.229		16.931	18.160
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.780		30.377	32.157
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			18.00			18.000		17.300	35.300
	Item No. 30 :- Refilling the excavated trenches ...										





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I Sewer DWc connection connection

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Total Excavation=							16.646			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	17.55	0.200	0.200	0.55			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.23			
								1.78			
	Net Qty = A - B							14.87	177.90	192.77	
14/04/16	LM-22 TO LM 22.1										
	CH0.00	586.899	586.310	586.210			0.689	0.995			
	CH6.00	587.550	586.350	586.250			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.1	0.750	0.995	3.022		203.302	206.324
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.4	0.750	0.100	0.326		18.160	18.486
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.540		32.157	32.696
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWc pipe of 250mm Dia	1			4.80			4.800		50.050	54.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.022			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	4.35	0.250	0.250	0.21			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.33			
								0.54			
	Net Qty = A - B							2.48	192.77	195.25	
14/04/16	LM-22.1 TO LM 22.2										
	CH6.00	587.550	586.350	586.250			1.300	1.290			
	CH21.00	587.590	586.410	586.310			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			13.3	0.750	1.290	12.868		206.324	219.192
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.6	0.750	0.100	1.020		18.486	19.506
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.687		32.696	34.384



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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I Sewer DWC connection, connection

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			14.05			14.050		54.850	68.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.868			
	Deduction of 250mm dia pipe										
	pipe area	1.00									
	soling			0.785	13.60	0.250	0.250	0.67			
	PCC							0.00			
	Murum bedding							0.00			
								1.02			
								1.69			
	Net Qty = A - B							11.18		195.25	206.43
14/04/16	LM-22.1 TO LM 22.2a										
	CH0.00	587.550	586.350	586.250			1.300	1.287			
	CH5.00	587.545	586.370	586.270			1.275				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.3	0.750	1.287	4.151		219.192	223.342
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.3	0.750	0.100	0.323		19.506	19.829
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.533		34.384	34.917
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			4.55			4.550		93.850	98.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.151			
	Deduction of 250mm dia pipe										
	pipe area	1.00									
	soling			0.785	4.30	0.250	0.250	0.21			
	PCC							0.00			
	Murum bedding							0.00			
								0.32			
								0.53			
	Net Qty = A - B							3.62		206.43	210.05
14/04/16	LM-23 TO LM 23.1										
	CH0.00	587.639	585.910	585.810			1.829	1.615			
	CH6.00	587.250	585.950	585.850			1.400				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.4	0.700	1.500	4.568		223.342	227.910
	(b) For Lift 1.5m to 3.0m	1			4.4	0.700	0.115	0.350		16.209	16.559
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.4	0.700	0.100	0.305		19.829	20.133



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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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I Sewer/DWC connection, connection

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.441	34.917	35.358	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.80			4.800	35.300	40.100	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.918			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	4.35	0.200	0.200	0.14			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.30			
								0.44			
	Net Qty = A - B							4.48	210.05	214.52	
	LM-24 TO LM 24.1										
	CH0.00	587.559	585.750	585.650			1.909	1.750			
	CH19.70	587.330	585.840	585.740			1.590				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			17.8	0.850	1.500	22.631	227.910	250.541	
	(b) For Lift 1.5m to 3.0m	1			17.8	0.850	0.250	3.772	16.559	20.331	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.1	0.850	0.100	1.534	20.133	21.667	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.940	35.358	38.298	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			18.50			18.500	98.400	116.900	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.403			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	18.05	0.315	0.315	1.41			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.53			
								2.94			
	Net Qty = A - B							23.46	214.52	237.98	
	LM-24.1 TO LM 24.2										
	CH19.70	587.330	585.840	585.740			1.590	1.545			
	CH28.10	587.390	585.990	585.890			1.500				



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AURANGABAD MUNICIPAL CORPORATION.

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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		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			6.7	0.850	1.500	8.543	250.541	259.084	
	(b) For Lift 1.5m to 3.0m	1			6.7	0.850	0.045	0.256	20.331	20.587	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.7	0.850	0.100	0.570	21.667	22.237	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.091	38.298	39.390	
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			7.15			7.150	116.900	124.050	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.799			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	6.70	0.315	0.315	0.52			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.57			
								1.09			
10/04/16	Net Qty = A - B							7.71	237.98	245.69	
10/04/16	LM-30 TO LM 30.1										
	CH0.00	590.667	590.167	589.967			0.700	0.965			
	CH11.20	591.240	590.210	590.010			1.230				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.6	1.360	0.965	12.533	259.084	271.617	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.6	0.960	0.200	1.834	22.237	24.071	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.916	39.390	42.306	
	Item No.17 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			10.00			10.000	22.500	32.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.533			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	9.55	0.380	0.380	1.08			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.83			





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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1 Sewer DWC connection, connection

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
							2.92				
	Net Qty = A - B						9.62		245.69	255.31	
10/04/16	NLM 33 TO NLM 33.1										
	CH0.00	592.162	590.660	590.560			1.602	1.599			
	CH8.00	592.190	590.695	590.595			1.595				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.6	0.700	1.500	6.930	271.617	278.547	
	(b) For Lift 1.5m to 3.0m	1			6.6	0.700	0.099	0.457	20.587	21.044	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.6	0.700	0.100	0.462	24.071	24.533	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.669	42.306	42.975	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			7.10			7.100	40.100	47.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.387			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	6.60	0.200	0.200	0.21			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.46			
								0.67			
	Net Qty = A - B							6.72	255.31	262.03	
10/04/16	LM 17 TO LM 17.1										
	CH0.00	584.705	584.005	583.905			0.800	0.783			
	CH8.00	584.715	584.050	583.950			0.765				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.1	0.750	0.783	3.553	278.547	282.100	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.4	0.750	0.100	0.476	24.533	25.009	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.788	42.975	43.763	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			6.80			6.800	68.900	75.700	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.553			



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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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	6.35	0.250	0.250	0.31			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.48			
								0.79			
	Net Qty = A - B							2.77	262.03	264.79	
04/04/16	LA 46 TO LA 46.1										
	CH0.00	595.629	593.725	593.625			2.004	1.972			
	CH9.00	595.750	593.910	593.810			1.940				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			7.0	0.750	1.500	7.875	282.100	289.975	
	(b) For Lift 1.5m to 3.0m	1			7.0	0.750	0.472	2.478	21.044	23.522	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.3	0.750	0.100	0.548	25.009	25.556	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							0.906	43.763	44.669	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			7.80			7.800	75.700	83.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.353			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	7.30	0.250	0.250	0.36			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.55			
								0.91			
	Net Qty = A - B							9.45	264.79	274.24	
04/04/16	LA 43 TO LA 43.1										
	CH0.00	598.860	597.850	597.650			1.210	1.155			
	CH8.70	598.950	598.050	597.850			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			6.7	0.960	1.155	7.429	289.975	297.404	
	(b) For Lift 1.5m to 3.0m	1			6.7	0.960	0.000	0.000	23.522	23.522	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			6.7	0.960	0.000	0.000	5.412	5.412	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.0	0.960	0.200	1.344	25.556	26.900	





AURANGABAD MUNICIPAL CORPORATION.

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

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

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.137	44.669	46.806	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia							0.000	47.200	47.200	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia							0.000	83.500	83.500	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia							0.000	124.050	124.050	
	Extra Item No.9.3 (c) :- Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			7.50			7.500	32.500	40.000	
	Item No.17 :- Lowering & Laying RCC NP3 class pipe of 400mm Dia							0.000	5.000	5.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.429			
	Deduction of 250mm dia pipe pipe area	1.00		0.785	7.00	0.380	0.380	0.79			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.34			
								2.14			
	Net Qty = A - B							5.29	274.24	279.53	



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L Sewer DWC connection, Chamber Measurement

19th RA BILL MEASUREMENTS DWC PIPE L- SEWER CONNECTION

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)-1.20+0.46+0.3+0.3=2.26m										
	Area for chamber upto 2m=2.26*2.26=5.107m										
	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 chamber up to 1.5m=2 X 2=4m										
	LM29.1	RAMNAGAR NEAR NEAR MAMTA HOSPITAL									
	CH35.30	591.165	590.312	590.062			1.103				
	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	5.107	0.903	3.620	0.000	3.620	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.107	0.200	0.802	0.000	0.802	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.903	0.000	1.903	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.422			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	0.853	1.15			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							1.90			
	Net Qty = A - B							2.52	0.00	2.52	
	LM29.2										
	CH43.30	592.610	590.380	590.130			2.480				
	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	5.107	1.500	6.013	3.620	9.634	
	(b) For Lift 1.5 to 3.0m	1			0.785	5.107	0.980	3.929	0.000	3.929	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.758	1.903	5.661	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.942			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.230	3.00			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			



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Measurement Book

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L Sewer DWC connection, Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.850	0.90			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.38			
		Net Qty = A - B						2.08	13.08	15.16	
	RMU 5										
	CH50.00	591.860	591.060	590.810			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.050	3.297	20.325	23.622	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.323	9.898	11.221	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.297			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.800	0.85			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.32			
		Net Qty = A - B						1.97	15.16	17.13	
	RMU 6										
	CH59.00	591.860	591.110	590.860			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.000	3.140	23.622	26.762	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.270	11.221	12.491	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.140			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.750	0.79			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.27			
		Net Qty = A - B						1.87	17.13	19.00	
	RMU 7										
	CH65.00	591.940	591.140	590.890			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.050	3.297	26.762	30.059	





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

Book No. :-

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L Sewer DWC connection, Chamber Measurement

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. : 11 Transportation of earth Transportation charges including loading & unloading							1.323		12.491	13.813
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.297			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.800	0.85			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.32			
		Net Qty = A - B							1.97	19.00	20.98
	RMU 8										
	CH70.00	591.870	591.170	590.920			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983		30.059	33.042
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.217		13.813	15.030
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.983			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.700	0.74			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.22			
		Net Qty = A - B							1.77	20.98	22.74
	LM 18.1										
	CH12.00	584.810	583.795	583.545			1.265				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.265	3.972		33.042	37.014
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.550		15.030	16.580
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.972			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.015	1.07			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.55			
		Net Qty = A - B							2.42	22.74	25.16
	LM 18.2										
	CH22.50	584.980	583.810	583.560			1.420				



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 066
Page No. :-

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

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L Sewer DWC connection, Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.420	4.459		37.014	41.473
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.713		16.580	18.294
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.459			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.170	1.24			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.71			
	Net Qty = A - B							2.75		25.16	27.91
	LM 18.1A										
	CH5.00	584.990	583.800	583.550			1.440				
	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	1.440	4.522		41.473	45.995
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.735		18.294	20.028
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.522			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.190	1.26			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.73			
	Net Qty = A - B							2.79		27.91	30.70
	LM 28.1										
	CH9.00	590.700	589.550	589.300			1.400				
	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	1.400	4.396		45.995	50.391
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.692		20.028	21.720
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.396			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.150	1.21			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			





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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L Sewer DWC connection, Chamber Measurement

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 (B)						1.69				
							2.70	30.70	33.40		
	LM 28.2										
	CH19.90	591.500	589.610	589.360			2.140				
	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	50.391	55.101	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.640	2.010	3.929	5.938	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						2.474		21.720	24.194	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						6.720				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.890	2.00			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)						2.47				
							4.25	33.40	37.65		
	LM 28.3										
	CH33.30	591.530	589.680	589.430			2.100				
	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	55.101	59.811	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.600	1.884	5.938	7.822	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						2.432		24.194	26.626	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						6.594				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.850	1.95			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)						2.43				
							4.16	37.65	41.81		
	NLM 29.1										
	CH5.45	591.065	589.620	589.370			1.695				
	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	59.811	64.521	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.195	0.612	7.822	8.435	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						2.004		26.626	28.630	



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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

Book No. :- **063**

Page No. :-

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L Sewer DWC connection, Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						5.322				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.445	1.53			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)						2.00				
		Net Qty = A - B							41.81	45.13	
	LM 22.1										
	CH6.00	587.550	586.350	586.100			1.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.450	4.553	64.521	69.074	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.745	28.630	30.375	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						4.553				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.200	1.27			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)						1.75				
		Net Qty = A - B							45.13	47.94	
	LM 17.1										
	CH8.00	584.715	584.050	583.800			0.915				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.107	0.915	3.668	69.074	72.742	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.650	30.375	32.025	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.668				
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	0.665	0.90			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murram bedding							0.00			
	Total (B)						1.65				
		Net Qty = A - B							47.94	49.95	
	LM 24.1										
	CH19.70	587.330	585.840	585.590			1.740				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										



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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.

Book No. :-

Page No. :- 069

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

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

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L Sewer DWC connection, Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	(a) For Lift 0 to 1.5m	1			0.785	5.107	1.500	6.013	72.742	78.756	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.240	0.754	8.435	9.188	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.761	32.025	34.786	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.767			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.490	2.01			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.76			
		Net Qty = A - B						4.01	49.95	53.96	
	LA 46.1										
	CH8.70	598.950	598.050	597.800			1.150				
	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	1.150	3.611	78.756	82.367	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	9.188	9.188	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000	0.802	0.802	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.428	34.786	36.214	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.611			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.900	0.95			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.43			
		Net Qty = A - B						2.18	53.96	56.14	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

070

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. :-

Page No. :-

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

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

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L Sewer DWC connection, Chamber

12th RA BILL MEASURMENTS DWC PIPE L- SEWER CONNECTION

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 2.0 mtr For per 50 cm	Total Rebate Qty for 50
		No				
		MTL/GL	IL	DEPTH		
Ramnagar (Mamta Hospital)						
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 2.0 M etc., complete					
1	LM29.1	592.412	590.312	2.100	2.000	0.10
2	LM29.2	592.610	590.380	2.230	2.000	0.23
3	LM 17.1	584.715	584.050	0.665	2.000	-1.33
						-1.00
						-2.01
SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30
		No				
		GL/MTL	IL	DEPTH		
B	Extra Item 2,; 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						
1	RMU 2	591.815	590.910	0.905	1.500	-0.59 ✓
2	RMU 3	591.870	590.970	0.900	1.500	-0.60 ✓
3	RMU 4	591.890	591.040	1.380	1.500	-0.12 ✓
4	RMU 5	591.860	591.060	0.800	1.500	-0.70 ✓
5	RMU 6	591.860	591.110	0.750	1.500	-0.75 ✓
6	RMU 7	591.940	591.140	0.800	1.500	-0.70 ✓
7	RMU 8	591.870	591.170	0.700	1.500	-0.80 ✓
8	LM 18.1	585.795	583.795	2.000	1.500	0.50 ✓
9	LM 18.2	585.810	583.810	2.000	1.500	0.50 ✓
10	LM 18.1A	586.600	583.800	2.800	1.500	1.30 ✓
11	LM 28.1	591.450	589.550	1.900	1.500	0.40 ✓
12	LM 28.2	591.500	589.610	1.890	1.500	0.39 ✓
13	LM 28.3	591.530	589.680	1.850	1.500	0.35 ✓
14	NLM 29.1	591.065	589.620	1.445	1.500	-0.05 ✓
15	LM 22.1	587.550	586.350	1.200	1.500	-0.30 ✓
16	LA 46.1	598.950	598.050	0.900	1.500	-0.60 ✓
17	LM 24.1	587.330	585.840	1.490	1.500	-0.01 ✓
						-1.79 ✓
						-5.97 ✓



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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

Book No. :-
Page No. :- **071**

Name of
Author

Date of
Measurement

L-Sewer DWC connection, Qty Abstract

QUANTITY ABSTRACT RA 12th
L-SEWER CONNECTION

SR NO	Description	MB/PG	ITEM 1		ITEM 3	ITEM 7	ITEM 11	ITEM 12			ITEM 13	ITEM 17	ITEM 21	ITEM 21.1	ITEM 30	Extra Item 2 0-1.5 m	Extra Item 2.a Rebate	Extra Item 9.3 300mm	Extra Item 9.4 300mm
			0-1.5	1.5-3.0				200mm	250mm	315mm									
1	For Pipe		297.404	23.522	5.412	26.900	46.806	47.200	83.500	124.050	47.200	400mm	0-2 m	Rebate	279.532				
2	For Manhole		82.367	9.188	0.802		36.214	47.200	83.500	124.050	47.200	5.000			56.142			40.00	40.00
	Total		379.770	32.711	6.213	26.900	83.021	47.200	83.500	124.050	47.200	5.000	3.000	-2.010	335.674	17.000	-5.967	40.00	40.00



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Date of Measurement	
Name of Author	

to	
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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, 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

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Vishrant Nagar, Measurement MB

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17th RA BILL MEASUREMENTS DWC PIPE VISHRANTI NAGAR

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	DWC - 315 mm Dia. VISHRANT NAGAR										
	Width of Trench - For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	VN-01										
	CH0.00	595.730	594.080	593.980			1.750	1.825			
	CH16.50	596.080	594.280	594.180			1.900				
	Item No. 1 :- Excavation for foundation/plpe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.500	1.215	1.500	26.426	0.000	26.426	
	(b) For Lift 1.5m to 3.0m	1			14.500	0.815	0.325	3.841	0.000	3.841	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.100	0.815	0.100	1.231	0.000	1.231	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond Initial lead up to 10km average rate							2.407	0.000	2.407	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC plpe of 315mm Dia	1			15.600			15.600	0.000	15.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.267			
	Deduction of 315mm dia plpe										
	plpe area	1.00		0.785	15.100	0.315	0.315	1.18			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.23			
								2.41			
								Net Qty = A - B	0.00	27.86	
	VN 02										
	CH16.50	596.080	594.480	594.380			1.700	1.760			
	CH31.70	596.350	594.630	594.530			1.820				
	Item No. 1 :- Excavation for										
	(a) For Lift 0 to 1.5m	1			12.850	1.215	1.500	23.419	26.426	49.845	
	(b) For Lift 1.5m to 3.0m	1			12.850	0.815	0.260	2.723	3.841	6.564	



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

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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Up to 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			13.650	0.815	0.100	1.112	1.231	2.343	
	Item No. 11 Transportation of							2.176	2.407	4.583	
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			14.150			14.150	15.600	29.750	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation =							26.142			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	13.650	0.315	0.315	1.06			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.11			
								2.18			
	Net Qty = A - B							23.97	27.86	51.83	
	VN 03										
	CH31.70	596.350	594.780	594.680				1.670			
	CH46.00	596.520	594.870	594.770				1.750			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	1.215	1.500	21.141	49.845	70.986	
	(b) For Lift 1.5m to 3.0m	1			11.600	0.815	0.210	1.985	6.564	8.549	
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			12.600	0.815	0.100	1.027	2.343	3.370	
	Item No. 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.008	4.583	6.591	
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			13.100			13.100	29.750	42.850	
	Item No. 30 :- Refilling the										
	Total Excavation =							23.126			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	12.600	0.315	0.315	0.98			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.03			
								2.01			
	Net Qty = A - B							21.12	51.83	72.94	
	VN 04										
	CH46.00	596.520	594.870	594.770							
	CH71.00	596.770	594.920	594.820				1.750			
								1.950			



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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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Vishranti Nagar, Measurement MB

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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			22.300	1.215	1.500	40.642		70.986	111.628
	(b) For Lift 1.5m to 3.0m	1			22.300	0.815	0.350	6.361		8.549	14.910
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.300	0.815	0.100	1.899		3.370	5.269
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.714		6.591	10.305
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			23.800			23.800		42.850	66.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							47.003			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	23.300	0.315	0.315	1.81			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.90			
								3.71			
								Net Qty = A - B		72.94	116.23
	VN 05										
	CH71.00	596.770	594.920	594.820			1.950				
	CH90.00	596.800	595.100	595.000			1.800	1.875			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.300	1.215	1.500	29.707		111.628	141.335
	(b) For Lift 1.5m to 3.0m	1			16.300	0.815	0.375	4.982		14.910	19.892
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.300	0.815	0.100	1.410		5.269	6.679
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.757		10.305	13.062
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			17.800			17.800		66.650	84.450
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							34.688			



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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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075

Name of Contractor:- M/s Khilari Infrastructures Pvt Ltd & GECPI (Joint Venture)

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Vishrantl Nagar, Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Qty.
		GL	IL	EX.L							
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	17.300	0.315	0.315	1.35			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.41			
								2.76			
	Net Qty = A - B							31.93	116.23	148.16	
	VN 06										
	CH90.00	596.800	595.100	595.000			1.800	1.875			
	CH103.00	596.980	595.130	595.030			1.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.300	1.215	1.500	18.772	141.335	160.107	
	(b) For Lift 1.5m to 3.0m	1			10.300	0.815	0.375	3.148	19.892	23.040	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.300	0.815	0.100	0.921	6.679	7.600	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.801	13.062	14.863	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.800			11.800	84.450	96.250	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							21.920			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.300	0.315	0.315	0.88			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.92			
								1.80			
	Net Qty = A - B							20.12	148.16	168.28	
	VN 07										
	CH103.00	596.980	595.130	595.030			1.950				
	CH116.00	597.190	595.340	595.240			1.950	1.950			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.300	1.215	1.500	18.772	160.107	178.878	
	(b) For Lift 1.5m to 3.0m	1			10.300	0.815	0.450	3.778	23.040	26.817	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.300	0.815	0.100	0.921	7.600	8.521	



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Vishranti Nagar, Measurement MB

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 excavated material for a lead beyond initial lead up to 10km average rate							1.801		14.863	16.664
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.800			11.800		96.250	108.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.549			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.300	0.315	0.315	0.88			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.92			
								1.80			
								20.75		168.28	189.03
	Net Qty = A - B										
	VN 08										
	CH116.00	597.190	595.340	595.240			1.950	1.803			
	CH136.10	597.230	595.675	595.575			1.655				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.400	1.215	1.500	31.712		178.878	210.590
	(b) For Lift 1.5m to 3.0m	1			17.400	0.815	0.303	4.297		26.817	31.114
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.400	0.815	0.100	1.500		8.521	10.020
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.933		16.664	19.597
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			18.900			18.900		108.050	126.950
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							36.008			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	18.400	0.315	0.315	1.43			
	soling							0.00			
	PCC							1.50			
	Murrum bedding							2.93			
								33.08		189.03	222.11
	Net Qty = A - B										
	VN 09						1.655				
	CH136.10	597.230	595.675	595.575							



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