

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 ERP, DL line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to ERP, DL line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Milind Nagar-01 - Mease. DWC Pipe

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19th RA BILL MEASUREMENTS PIPE MILIND NAGAR-01

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 PIPE - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.5=0.75m										
	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										
	ML 4 to ML 5										
	CH0.00	568.740	567.700	567.600			1.140	1.115			
	CH4.00	568.770	567.780	567.680			1.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.750	0.965	1.665	0.000	1.665	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.750	0.100	0.173	0.000	0.173	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.750	0.050	0.086	0.000	0.086	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.600	0.750	0.100	0.195	0.000	0.195	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.323	0.000	0.323	
	Item 13 (c) :-Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			3.100			3.100	0.000	3.100	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.923			
	Deduction										
	pipe area	1		0.785	2.600	0.250	0.250	0.128			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.195			
								0.323			
								1.601	0.000	1.601	
	Net Qty = A - B										
	ML 5 to ML 6										
	CH4.00	568.770	567.780	567.680			1.090	1.130			
	CH20.30	568.880	567.810	567.710			1.170				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.300	0.750	0.980	10.511	1.665	12.175	



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Milind Nagar-01 - Mease. DWC Pipe

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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							
	pipe area	1		0.785	8.600	0.250	0.250	0.422			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.645			
								1.067			
	Net Qty = A - B							5.653	11.872	17.525	
15/7/16	ML 8 to ML 9										
	CH38.50	568.830	567.870	567.770			1.060	1.045			
	CH41.80	568.830	567.900	567.800			1.030				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.300	0.750	0.500	0.487	15.775	16.263	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.300	0.750	0.495	0.483	4.065	4.548	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.300	0.750	0.050	0.049	0.923	0.971	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.900	0.750	0.100	0.143	1.958	2.100	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.236	3.238	3.474	
	Item 13 (c) :-Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			2.400			2.400	27.600	30.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.019			
	Deduction										
	pipe area	1		0.785	1.900	0.250	0.250	0.093			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.143			
								0.236			
	Net Qty = A - B							0.783	17.525	18.308	
15/7/16	ML 10 to ML 11										
	CH50.20	569.000	567.910	567.810			1.190	1.205			
	CH69.20	569.210	568.090	567.990			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			17.000	0.750	0.350	4.463	16.263	20.725	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.000	0.750	0.805	10.264	4.548	14.811	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



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Milind Nagar-01 - Meas. SW Pipe

11th RA BILL MEASUREMENTS PIPE MILIND NAGAR-01

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.79m										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4=1.19 m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0.4=1.59m										
	ML 7 to ML 8										
	CH30.30	568.820	567.850	567.750			1.070	1.065			
	CH38.50	568.830	567.870	567.770			1.060				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.200	0.790	0.500	2.449		26.024	28.473
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.200	0.790	0.515	2.522		23.525	26.047
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.200	0.790	0.050	0.245		2.198	2.442
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.800	0.790	0.100	0.537		4.643	5.180
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.926		7.679	8.606
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			7.300			7.300			7.300
	Item No. 30 :- Refilling the excavated trenches ...							5.216			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	6.800	0.270	0.270	0.389			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.537			
								0.926			
	Net Qty = A - B							4.290		44.067	48.357
	ML 9 to ML 10										
	CH41.80	568.830	567.900	567.800			1.030	1.110			
	CH50.20	569.000	567.910	567.810			1.190				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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Milind Nagar-01 - Meas. SW Pipe

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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							
	(a) For Lift 0 to 1.5m	1			6.400	0.790	0.450	2.275		28.473	30.748
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.790	0.610	3.084		26.047	29.132
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.790	0.050	0.253		2.442	2.695
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.000	0.790	0.100	0.553		5.180	5.733
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.954		8.606	9.559
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			7.500			7.500		7.300	14.800
	Item No. 30 :- Refilling the excavated trenches ...							5.612			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	7.000	0.270	0.270	0.401			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.553			
								0.954			
								4.659		48.357	53.015
	Net Qty = A - B										
	ML 12 to ML 13										
	CH86.90	569.540	568.380	568.280				1.260			
	CH99.20	570.080	569.180	569.080				1.000		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			10.300	0.790	0.250	2.034		30.748	32.782
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.300	0.790	0.830	6.754		29.132	35.885
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.300	0.790	0.050	0.407		2.695	3.102
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.900	0.790	0.100	0.861		5.733	6.594
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.485		9.559	11.044
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia	1			11.400			11.400		14.800	26.200



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Milind Nagar-01 - Meas. SW Pipe

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=						9.195				
	Deduction										
	pipe area	1		0.785	10.900	0.270	0.270		0.624		
	soling								0.000		
	PCC								0.000		
	Murram bedding								0.861		
									1.485		
	Net Qty = A - B						7.710	53.015	60.725		
	SW PIPE - 200 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4=1.14 m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.02+0.02+0.4+0.4=1.54m										
	ML 11 to ML 11.1										
	CH0.00	569.210	568.240	568.140			1.070				
	CH7.50	569.090	568.290	568.190			0.900	0.985			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			5.800	0.740	0.700	3.004	32.782	35.787	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			5.800	0.740	0.285	1.223	35.885	37.108	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.100	0.740	0.100	0.451	6.594	7.045	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						0.683	11.044	11.727		
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.600			6.600	0.000	6.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						4.228				
	Deduction										
	pipe area	1		0.785	6.100	0.220	0.220		0.232		
	soling								0.000		
	PCC								0.000		
	Murram bedding								0.451		
									0.683		
	Net Qty = A - B						3.544	60.725	64.270		
	ML 11.1 to ML 11.2										
	CH7.50	569.090	568.290	568.190			0.900				
	CH15.00	569.300	568.430	568.330			0.970	0.935			



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Milind Nagar-01 - Meas. SW Pipe

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			5.500	0.740	0.800	3.256		35.787	39.043
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.500	0.740	0.135	0.549		37.108	37.658
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.100	0.740	0.100	0.451		7.045	7.497
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.683		11.727	12.411
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.600			6.600		6.600	13.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.805			
	Deduction										
	pipe area	1		0.785	6.100	0.220	0.220	0.232			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.451			
								0.683			
								Net Qty = A - B		64.270	67.392
	ML 11.2 to ML 11.3										
	CH15.00	569.300	568.430	568.330			0.970	0.970			
	CH21.10	569.490	568.620	568.520			0.970				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.100	0.740	0.920	2.791		39.043	41.834
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.100	0.740	0.050	0.152		37.658	37.810
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.700	0.740	0.100	0.348		7.497	7.844
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.526		12.411	12.937
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.200			5.200		13.200	18.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.943			
	Deduction										
	pipe area	1		0.785	4.700	0.220	0.220	0.179			



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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							
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.348			
								0.526			
		Net Qty = A - B						2.417	67.392	69.809	
15/11/16	ML 11.3 to ML 11.4										
	CH21.10	569.490	568.620	568.520			0.970	0.950			
	CH34.20	569.790	568.960	568.860			0.930				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.100	0.740	0.900	7.393	41.834	49.227	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.100	0.740	0.050	0.411	37.810	38.220	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.700	0.740	0.100	0.866	7.844	8.710	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.310	12.937	14.247	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			12.200			12.200	18.400	30.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.803			
	Deduction										
	pipe area	1		0.785	11.700	0.220	0.220	0.445			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.866			
								1.310			
		Net Qty = A - B						6.493	69.809	76.302	
15/11/16	ML 11.4 to ML 11.5										
	CH34.20	569.790	568.960	568.860			0.930	0.930			
	CH40.20	569.870	569.040	568.940			0.930				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.880	2.605	49.227	51.831	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.050	0.148	38.220	38.368	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.600	0.740	0.100	0.340	8.710	9.051	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.515	14.247	14.762	



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Milind Nagar-01 - Meas. SW Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.100			5.100		30.600	35.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.753			
	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			
								2.238		76.302	78.539
	ML 11.5 to ML 11.6										
	CH40.20	569.870	569.040	568.940							
	CH47.70	569.970	569.150	569.050			0.930	0.925			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.500	0.740	0.875	3.561		51.831	55.393
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.500	0.740	0.050	0.204		38.368	38.572
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.500	0.740	0.000	0.000		3.102	3.102
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.100	0.740	0.100	0.451		9.051	9.502
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.683		14.762	15.446
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.600			6.600		35.700	42.300
	Extra Item 9.2 (d) :-Lowering & Laying of Polyethylene SW pipe of 250mm Dia										26.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.765			
	Deduction										
	pipe area	1		0.785	6.100	0.220	0.220	0.232			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.451			
								0.683			
								3.082		78.539	81.621





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

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Milind Nagar-01 - Meas.Chamber

12th RA BILL MEASUREMENTS OF CHAMBERS MILIND NAGAR-01

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 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										
	ML 5										
	CH4.00	568.770	567.780	567.530			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	1.090	3.423	0.000	3.423	
	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	0.100	0.314	0.000	0.314	
	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	0.050	0.157	0.000	0.157	
	Item No. : 11 Transportation of earth Transportation charges							1.621	0.000	1.621	
	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			
	Net Qty = A - B							2.272	0.000	2.272	
	ML 6										
	CH20.30	568.880	567.810	567.560			1.320				
	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	1.170	3.674	3.423	7.096	
	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	0.100	0.314	0.314	0.628	
	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	0.050	0.157	0.157	0.314	
	Item No. : 11 Transportation of earth Transportation charges							1.712	1.621	3.333	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Milind Nagar-01 - Meas.Chamber

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)=						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	6.937	9.149	
	ML 9										
	CH41.80	568.830	567.900	567.650			1.180				
	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	0.500	1.570	10.550	12.120	
	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	0.630	1.978	4.490	6.468	
	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	0.050	0.157	0.628	0.785	
	Item No. : 11 Transportation of earth Transportation charges							1.554	6.520	8.074	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.705				
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.930	1.051			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)						1.554				
		Net Qty = A - B						2.152	9.149	11.300	
	ML 10										
	CH50.20	569.000	567.910	567.660			1.340				
	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	0.450	1.413	12.120	13.533	
	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	0.840	2.638	6.468	9.106	
	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	0.050	0.157	0.785	0.942	
	Item No. : 11 Transportation of earth Transportation charges							1.735	8.074	9.808	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Millind Nagar-01 - Meas.Chamber

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)=						4.427				
	Deduction										
	Brick work	1		0.785	1.200	1.200	1.160	1.311			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)						1.814				
	Net Qty = A - B						2.614		16.307	18.920	
	ML 13										
	CH99.20	570.080	569.180	568.930			1.150				
	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	0.250	0.785	16.045	16.830	
	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	0.850	2.669	15.009	17.678	
	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	0.050	0.157	1.256	1.413	
	Item No. : 11 Transportation of earth Transportation charges							1.520	13.390	14.910	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.611				
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.900	1.017			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)						1.520				
	Net Qty = A - B						2.091		18.920	21.012	
	ML 11.1										
	CH7.50	569.090	568.290	568.040			1.050				
	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	0.700	2.198	16.830	19.028	
	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	0.350	1.099	17.678	18.777	
	Item No. : 11 Transportation of earth Transportation charges							1.407	14.910	16.317	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.297				
	Deduction										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Milind Nagar-01 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Brick work	1		0.785	1.200	1.200	0.800	0.904			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.407			
	ML 11.2	Net Qty = A - B						1.890			
	CH15.00	569.300	568.430	568.180			1.120		21.012	22.902	
	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	0.800	2.512	19.028	21.540	
	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	0.320	1.005	18.777	19.782	
	Item No. : 11 Transportation of earth Transportation charges							1.486	16.317	17.803	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.517			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.870	0.983			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.486			
	ML 11.3	Net Qty = A - B						2.031			
	CH21.10	569.490	568.620	568.370			1.120		22.902	24.933	
	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	1.070	3.360	21.540	24.900	
	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	0.050	0.157	19.782	19.939	
	Item No. : 11 Transportation of earth Transportation charges							1.486	17.803	19.288	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.517			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.870	0.983			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.486			
	ML 11.4	Net Qty = A - B						2.031			
	CH34.20	569.790	568.960	568.710			1.080		24.933	26.964	



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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, Chikali, Zalta, etc.

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Milind Nagar-01 - Meas.Chamber

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	1.030	3.234		24.900	28.134
	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	0.050	0.157		19.939	20.096
	Item No. : 11 Transportation of earth Transportation charges							1.441		19.288	20.729
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.391			
	Deduction										
	Brick work	1			0.785	1.200	1.200	0.830	0.938		
	soling								0.000		
	PCC	1			0.785	1.600	1.600	0.250	0.502		
	Murrum bedding								0.000		
	Total (B)							1.441			
					Net Qty = A - B				1.951	26.964	28.914
	ML 11.5										
	CH40.20	569.870	569.040	568.790				1.080			
	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	1.030	3.234		28.134	31.369
	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	0.050	0.157		20.096	20.253
	Item No. : 11 Transportation of earth Transportation charges							1.441		20.729	22.170
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.391			
	Deduction										
	Brick work	1			0.785	1.200	1.200	0.830	0.938		
	soling								0.000		
	PCC	1			0.785	1.600	1.600	0.250	0.502		
	Murrum bedding								0.000		
	Total (B)							1.441			
					Net Qty = A - B				1.951	28.914	30.865
	ML 11.6										
	CH47.70	569.970	569.150	568.900				1.070			
	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	1.020	3.203		31.369	34.571
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum 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 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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Milind Nagar-01 - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date - Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.050	0.157			
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									20.253	20.410
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000			
	Item No. : 11 Transportation of earth Transportation charges							1.429		1.413	1413
	Item No. 30 :- Refilling the excavated trenches ...									22.170	23.594
	Total Excavation(A)=							3.360			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.820	0.927			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	Total (B)							1.429			
	Net Qty = A - B							1.930		30.865	32.794



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Page No. :- **119**

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

	Details	Last
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Milind Nagar-01 - Manhole Details

17th RA BILL MEASUREMENTS										
Branch Sewer at MILIND NAGAR-01										
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)		
A For Full Rate										
1	CH 4.00	ML 5	568.770	567.780	0.990	-0.510	-9.220	-30.733		
2	CH 20.30	ML 6	568.880	567.810	1.070	-0.430				
3	CH 30.30	ML 7	568.820	567.850	0.970	-0.530				
4	CH 38.50	ML 8	568.830	567.870	0.960	-0.540				
5	CH 41.80	ML 0	0.000	0.000	0.000	-1.500				
6	CH 50.20	ML 10	569.000	567.910	1.090	-0.410				
7	CH 69.20	ML 11	569.210	568.090	1.120	-0.380				
8	CH 86.90	ML 12	569.540	568.380	1.160	-0.340				
9	CH 99.20	ML 13	570.080	569.180	0.900	-0.600				
B For Reduce Rate										
1	CH 7.50	ML 11.1	569.090	568.290	0.800	-0.700				
2	CH 15.00	ML 11.2	569.300	568.430	0.870	-0.630				
3	CH 21.10	ML 11.3	569.490	568.620	0.870	-0.630				
4	CH 34.20	ML 11.4	569.790	568.960	0.830	-0.670				
5	CH 40.20	ML 11.5	569.870	569.040	0.830	-0.670				
6	CH 47.70	ML 11.6	569.970	569.150	0.820	-0.680				
							Total	-30.733		



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Date of Measurement	1
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Name of Authority

Milind Nagar-01 Quantity Node Abstract

14th R A BILL MEASUREMENTS Branch Sewer at MILIND NAGAR-01

SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7		ITEM 11		ITEM 12		ITEM 13		ITEM 30		EIRL 2		EIRL 2.a		EIRL 9.1		EIRL 9.2			
			0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	0-1.5	250mm	250mm	Full Rate	R.R. 1420	Rebate	200mm	250mm	200mm	250mm	200mm	250mm	200mm	250mm	200mm	250mm		
1	For Pipe		55.393	38.572	3.102	9.502	15.446	64.900	64.900	81.621																		
2	For Manhole		34.571	20.410	1.413		23.599			32.795																		
	Total		89.964	58.982	4.515	9.502	39.045	64.900	114.416	9.000	6.000	6.000	30.733	42.300	26.200	42.300	26.200	42.300	26.200	42.300	26.200	42.300	26.200	42.300	26.200	42.300	26.200	

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Accepted
Secretary





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 GRE/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP.

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Milind Nagar-02 - Pipe Measurement

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11th RA BILL MEASUREMENTS SW PIPE MILIND NAGAR-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 200 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4=1.14 m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.02+0.02+0.4+0.4=1.54m										
	ML 0 (old) to ML 1										
	CH0.00	568.730	567.790	567.690			1.040	1.030			
	CH2.50	568.810	567.890	567.790			1.020				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.050	0.740	0.870	0.676		0.000	0.676
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.050	0.740	0.160	0.124		0.000	0.124
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.350	0.740	0.100	0.100		0.000	0.100
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.151		0.000	0.151
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			1.850			1.850		0.000	1.850
	Item No. 30 :- Refilling the excavated trenches ...							0.800			
	Total Excavation=										
	Deduction										
	pipe area	1			0.785	1.350	0.220	0.220	0.051		
	soling							0.000			
	PCC							0.100			
	Murrum bedding							0.151			
	Net Qty = A - B							0.649		0.000	0.649
	ML 1 to ML 2										
	CH2.50	568.810	567.890	567.790			1.020	1.055			
	CH8.50	569.020	568.030	567.930			1.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.895	2.649		0.676	3.325



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AURANGABAD MUNICIPAL CORPORATION.

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Millind Nagar-02 - Pipe 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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.160	0.474		0.124	0.598
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.600	0.740	0.100	0.340		0.100	0.440
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.515		0.151	0.666
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.100			5.100		1.850	6.950
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.123			
	Deduction										
	pipe area	1		0.785	4.600	0.220	0.220	0.175			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.310			
								0.515			
	Net Qty = A - B							2.608		0.649	3.257
18/11/16	ML 2 to ML 3										
	CH8.50	569.020	568.030	567.930				1.090			
	CH18.80	569.350	568.350	568.250				1.100	1.095		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	0.740	0.935	5.743		3.325	9.068
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	0.740	0.160	0.983		0.598	1.581
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.900	0.740	0.100	0.659		0.440	1.099
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.997		0.666	1.663
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			9.400			9.400		6.950	16.350
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.725			
	Deduction										
	pipe area	1		0.785	8.900	0.220	0.220	0.338			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.659			



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Milind Nagar-02 - Pipe 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							
		Net Qty = A - B						0.997			
	ML 3 to ML 4						5.729		3.257	8.985	
	CH18.80	569.350	568.350	568.250							
	CH31.50	569.740	568.740	568.640			1.100	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			10.700	0.740	0.940	7.443		9.068	16.511
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.700	0.740	0.160	1.267		1.581	2.848
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.300	0.740	0.100	0.836		1.099	1.935
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.266		1.663	2.929
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			11.800			11.800		16.350	28.150
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.710			
	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			
								7.444		8.985	16.430
	ML 1 to ML 1.1										
	CH0.00	568.810	567.890	567.790			1.020				
	CH7.60	568.930	568.010	567.910			1.020	1.020			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.150	0.740	0.860	3.914		16.511	20.425
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.150	0.740	0.160	0.728		2.848	3.576
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.450	0.740	0.100	0.477		1.935	2.412
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.722		2.929	3.651



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Milind Nagar-02 - Pipe 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							
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.950			6.950		28.150	35.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction							4.642			
	pipe area	1									
	soling			0.785	6.450	0.220	0.220	0.245			
	PCC							0.000			
	Murrum bedding							0.000			
								0.477			
								0.722			
								Net Qty = A - B			
	21/7/16 ML 1.1 to ML 1.2							3.920		16.430	20.349
	CH7.60	568.930	568.010	567.910							
	CH11.40	569.020	568.190	568.090			1.020	0.975			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.800	0.740	0.815	1.086		20.425	21.510
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.800	0.740	0.160	0.213		3.576	3.789
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.400	0.740	0.100	0.178		2.412	2.590
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.269		3.651	3.920
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			2.900			2.900		35.100	38.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.299			
	Deduction										
	pipe area	1			0.785	2.400	0.220	0.220	0.091		
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.178			
								0.269			
								Net Qty = A - B		20.349	21.379
	21/11/16 ML 1.2 to ML 1.3							1.030		20.349	21.379
	CH11.40	569.020	568.190	568.090			0.930	0.910			
	CH16.40	569.120	568.330	568.230			0.890				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.740	0.750	1.665		21.510	23.175



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Milind Nagar-02 - Pipe 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. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.740	0.160	0.355		3.789	4.144
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.600	0.740	0.100	0.266		2.590	2.856
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.403		3.920	4.323
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			4.100			4.100		38.000	42.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.020			
	Deduction										
	pipe area	1		0.785	3.600	0.220	0.220	0.137			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.266			
								0.403			
	Net Qty = A - B							1.617		21.379	22.996
	ML 1.3 to ML 1.4										
	CH16.40	569.120	568.330	568.230							
	CH26.20	569.060	568.560	568.460			0.890	0.745			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.800	0.740	0.585	3.377		23.175	26.552
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.800	0.740	0.160	0.924		4.144	5.068
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.400	0.740	0.100	0.622		2.856	3.478
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.941		4.323	5.264
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.900			8.900		42.100	51.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.300			
	Deduction										
	pipe area	1		0.785	8.400	0.220	0.220	0.319			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.622			



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