



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. :- 183
Page No. :-

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

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

Page 4 of 5

RA 12-Rohidaspora-300mm RCC SW-150mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.950	0.690	0.150	0.098		2.015	2.114
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.950	0.690	0.100	0.066		1.344	1.409
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.950	0.690	0.100	0.066		1.344	1.409
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.087		1.773	1.860
	Extra Item 9.2 b) :-Lowering & Laying of SW pipe of 150mm Dia	1			1.200			1.200		11.650	12.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.364			
	pipe area	1.00		0.785	0.950	0.170	0.170	0.022			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.066			
								0.087			
		Net Qty = A - B						0.277		8.512	8.789
	From Manhole RP 12 to RP 12.1										
	CH0.00	579.338	578.248	578.148			1.190	0.870			
	CH3.00	579.388	578.938	578.838			0.550				
	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	0.690	0.620	0.984		7.126	8.110
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.690	0.150	0.238		2.114	2.352
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.690	0.100	0.159		1.409	1.568
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.300	0.690	0.100	0.159		1.409	1.568
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.211		1.860	2.071



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Book No. :- **184**

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

Page 5 of 5

RA 12 Rohidaspora-300mm RCC SW-150mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item 9.2 b) :-Lowering & Laying of SW pipe of 150mm Dia	1			2.550			2.550		12.850	15.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.381			
	pipe area	1.00		0.785	2.300	0.170	0.170	0.052			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.159			
								0.211			
		Net Qty = A - B						1.170		8.789	9.958
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.015			0.015		0.001	0.016



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Book No. :-

Page No. 185

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

Page 1 of 8

RA 12 Rohidaspura-300mm RCC-SW-200mm

12th RA BILL MEASUREMENTS

Branch Sewer at "Rohidaspura"

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 200 mm Dia										
	200 mm Dia-Branch Sewer at "Rohidaspura " (Width of Trench -0.200+0.02+0.02+0.5=0.740m)										
	For Width of Trench Calculation Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.	For Depth				0.0m to 1.5m		0.0m to 3.0m			
		For Lift 0.0m to 1.5m				0.740		1.140 ✓			
		For Lift 1.5m to 3.0m						0.740 ✓			
	From Manhole RP 4 to RP 4.1										
	CH0.00	576.738	575.938	575.838			0.900	0.750			
	CH5.55	577.248	576.748	576.648			0.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.300	0.740	0.500	1.591	8.110	9.701	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.300	0.740	0.150	0.477	2.352	2.829	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.300	0.740	0.100	0.318	1.568	1.886	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.300	0.740	0.100	0.318	1.568	1.886	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.482	2.071	2.553	
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			4.800			4.800	0.000	4.800	
	Item No. 30 :- Refilling the excavated trenches ...							2.387			
	Total Excavation=	1.00		0.785	4.300	0.220	0.220	0.163			
	pipe area							0.318			
	Murrum bedding							0.482			
								1.905	9.958	11.863	
		Net Qty = A - B									
	From Manhole RP 6 to RP 6.2						0.500	0.460			
	CH0.00	577.458	577.058	576.958			0.420				
	CH2.40	577.478	577.158	577.058							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	0.740	0.210	0.264	9.701	9.965	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 186
Page No. :-

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

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

Authority No. AMC/W&ER&CHDSSMT/2014/184 **Date** 01/07/2014

RA 12 Rohidaspora-300mm RCC-SW-200mm

Page 2 of 8

Page 2 of 8

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	0.740	0.150	0.189		2.829	3.018
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	0.740	0.100	0.126		1.886	2.012
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.700	0.740	0.100	0.126		1.886	2.012
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.190		2.553	2.743
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			1.950			1.950		4.800	6.750
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.579			
	pipe area	1.00		0.785	1.700	0.220	0.220	0.065			
	Murrum bedding							0.126			
								0.190			
								0.388		11.863	12.252
	Net Qty = A - B										
	From Manhole RP 9 to RP 9.1										
	CH0.00	578.408	577.808	577.708			0.700	0.655			
	CH2.00	578.498	577.988	577.888			0.610				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.300	0.740	0.405	0.390		9.965	10.355
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.300	0.740	0.150	0.144		3.018	3.162
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.300	0.740	0.100	0.096		2.012	2.108
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.300	0.740	0.100	0.096		2.012	2.108
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.146		2.743	2.889
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			1.550			1.550		6.750	8.300



Signature



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Book No. :-

Page No. :- 187

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

Page 3 of 8

RA 11 Rohidaspora-300mm RCC-SW-200mm

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=							0.630			
	pipe area	1.00		0.785	1.300	0.220	0.220	0.049			
	Murrum bedding							0.096			
								0.146			
		Net Qty = A - B						0.485		12.252	12.736
	From Manhole RP 9 to RP 9.2										
	CH0.00	578.408	577.318	577.218			1.190	0.870			
	CH4.80	578.568	578.118	578.018			0.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.400	0.740	0.620	1.560		10.355	11.915
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.400	0.740	0.150	0.377		3.162	3.539
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.400	0.740	0.100	0.252		2.108	2.360
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.400	0.740	0.100	0.252		2.108	2.360
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.381		2.889	3.270
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			3.900			3.900		8.300	12.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.189			
	pipe area	1.00		0.785	3.400	0.220	0.220	0.129			
	Murrum bedding							0.252			
								0.381			
		Net Qty = A - B						1.808		12.736	14.544
	From Manhole RP 9 to RP 9.3										
	CH0.00	578.408	577.318	577.218			1.190	1.095			
	CH3.60	578.518	577.618	577.518			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.200	0.740	0.845	1.376		11.915	13.291
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.200	0.740	0.150	0.244		3.539	3.784



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Book No. :- 188

Page No. :-

Page 4 of 8

RA 12,Rohidaspora-300mm RCC-SW-200mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.200	0.740	0.100	0.163		2.360	2.522
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.200	0.740	0.100	0.163		2.360	2.522
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.246		3.270	3.516
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			2.700			2.700		12.200	14.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.783			
	pipe area	1.00		0.785	2.200	0.220	0.220	0.084			
	Murum bedding							0.163			
								0.246			
								1.536		14.544	16.080
	Net Qty = A - B										
	From Manhole RP 10 to RP 10.1										
	CH0.00	578.658	577.518	577.418			1.240	1.245			
	CH4.20	578.818	577.668	577.568			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.800	0.740	0.995	2.062		13.291	15.352
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.800	0.740	0.150	0.311		3.784	4.094
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.800	0.740	0.100	0.207		2.522	2.730
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.800	0.740	0.100	0.207		2.522	2.730
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.314		3.516	3.830
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			3.300			3.300		14.900	18.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.580			
	pipe area	1.00		0.785	2.800	0.220	0.220	0.106			
	Murum bedding							0.207			
								0.314			
	Net Qty = A - B							2.266		16.080	18.34



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Book No. :-

Page No. :- 189

Page 5 of 8

RA 14-Rohidaspura-300mm RCC-SW-200mm

RA 24-Ronidaspora-300mm RCC-SW-200mm											
Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	From Manhole RP 11 to RP 11.1										
	CH0.00	578.878	577.638	577.538			1.340	1.370			
	CH2.80	579.288	577.988	577.888			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			1.400	0.740	1.120	1.160		15.352	16.513
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.400	0.740	0.150	0.155		4.094	4.250
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.400	0.740	0.100	0.104		2.730	2.833
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.400	0.740	0.100	0.104		2.730	2.833
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.157		3.830	3.986
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			1.900			1.900		18.200	20.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.419			
	pipe area	1.00		0.785	1.400	0.220	0.220	0.053			
	Murrum bedding							0.104			
								0.157			
								1.263		18.347	19.609
		Net Qty = A - B									
	From Manhole RP 15 to RP 15.1										
	CH0.00	580.238	579.238	579.138			1.100	1.100			
	CH1.95	580.368	579.368	579.268			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			0.550	0.740	0.850	0.346		16.513	16.859
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.550	0.740	0.150	0.061		4.250	4.311
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.550	0.740	0.100	0.041		2.833	2.874
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.550	0.740	0.100	0.041		2.833	2.874



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 190

Page No. :-

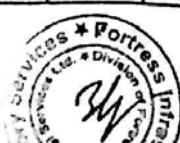
Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erection, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshirawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CHDO (Airport),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

RA 1 Rohidaspura-300mm RCC-SW-200mm

Page 6 of 8

Page 0000

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.062		3.986	4.048
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			1.050			1.050		20.100	21.150
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.448			
	pipe area	1.00		0.785	0.550	0.220	0.220	0.021			
	Murrum bedding							0.041			
								0.062			
		Net Qty = A - B						0.386		19.609	19.995
	From Manhole RP 16 to RP 16.1										
	CH0.00	580.803	579.893	579.793			1.010	0.955			
	CH2.00	580.913	580.113	580.013			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			0.300	0.740	0.705	0.157		16.859	17.015
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.740	0.150	0.033		4.311	4.344
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.740	0.100	0.022		2.874	2.896
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.600	0.740	0.100	0.044		2.874	2.918
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.067		4.048	4.115
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			1.100			1.100		21.150	22.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.212			
	pipe area	1.00		0.785	0.600	0.220	0.220	0.023			
	Murrum bedding							0.044			
								0.067			
		Net Qty = A - B						0.145		19.995	20.140
	From Manhole RP 17 to RP 17.1										
	CH0.00	581.263	580.373	580.273			0.990	0.865			
	CH3.30	581.683	581.043	580.943			0.740				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.900	0.740	0.615	0.865		17.015	17.880



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 191

Page No. :-

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

Page 7 of 8

RA 12 Rohildaspura-300mm RCC-SW-200mm

RA 17 Rohildaspura-300mm RCC-SW-200mm											
Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.900	0.740	0.150	0.211		4.344	4.555
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.900	0.740	0.100	0.141		2.896	3.037
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.900	0.740	0.100	0.141		2.918	3.059
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.213		4.115	4.328
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			2.400			2.400		22.250	24.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	pipe area	1.00		0.785	1.900	0.220	0.220	1.216			
	Murrum bedding							0.072			
								0.141			
								0.213			
		Net Qty = A - B						1.003		20.140	21.143
	From Manhole RP 19 to RP 19.1										
	CH0.00	581.363	580.493	580.393			0.970	0.945			
	CH1.65	581.363	580.543	580.443			0.920				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.950	0.740	0.695	0.489		17.880	18.368
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.950	0.740	0.150	0.105		4.555	4.660
	Item No. 4 :- Excavation for foundation/pipe trenches In soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.950	0.740	0.100	0.070		3.037	3.107
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.950	0.740	0.100	0.070		3.059	3.129
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.106		4.328	4.434
	Extra Item No.9.2 c):-Lowering & Laying of SW pipe of 200mm Dia	1			1.200			1.200		24.650	25.850



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AURANGABAD MUNICIPAL CORPORATION

Measurement Book

192

Book No. 192

Page No. 192

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali/CMF. Construction, Erection, 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 Commissioning 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.

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

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

Page 8 of 8

RA 11-Rohidaspora-300mm RCC-SW-200mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	pipe area	1.00		0.785	0.950	0.220	0.220	0.664			
	Murrum bedding							0.036			
								0.070			
								0.106			
		Net Qty = A - B						0.558		21.143	21.701
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.026			0.026		0.016	0.042



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :- 193

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

Page 1

RA 11 Rohidaspura-300mm RCC DWC-200mm

11th R A BILL MEASUREMENTS

Branch Sewer at "Rohidaspura "

Branch Sewer at "Rohidaspura "											
Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 200 mm Dia										
	200 mm Dia-Branch Sewer at "Rohidaspura " (Width of Trench -0.200+0.5=0.700m)										
	For Width of Trench	For Depth						0.0m to 1.5m	0.0m to 3.0m		
	Calculation Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequentupper Lifts.	For Lift 0.0m to 1.5m						0.700	1.100		
	From Manhole RP 3 to RP 3.1	For Lift 1.5m to 3.0m						0.700			
	CH0.00	576.278	575.548	575.448			0.830				
	CH3.20	576.358	575.668	575.568			0.790	0.810			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.500	0.700	0.560	0.980		18.368	19.348
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.500	0.700	0.150	0.263		4.660	4.923
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.500	0.700	0.100	0.175		3.107	3.282
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.500	0.700	0.100	0.175		3.129	3.304
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.254		4.434	4.688
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			2.750			2.750		0.000	2.750
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.418			
	pipe area	1.00		0.785	2.500	0.200	0.200	0.08			
	Murrum bedding							0.18			
								0.25			
		Net Qty = A - B						1.16		21.70	22.87
	Item No :35 Shifting of Exlstng Utilities Length considered up to 400mm including all and as directed by Engineer In-Charge				0.003			0.003		0.042	0.045



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Measurement Book

194

Name of work:- Development of Underground Sewerage Collection System for Zone 1 to V 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, CHDO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CHDO (Airport), Providing, lowering, laying, jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshirawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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

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

1 of 1

RA 12-Rohidaspora-300mm RCC DWC-300mm

12th R A BILL MEASUREMENTS Branch Sewer at "Rohidaspora"

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upte Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 315 mm Dia										
	315 mm Dia-Branch Sewer at "Rohidaspora " (Width of Trench -0.315+0.5=0.815m)										
	For Width of Trench Calculation	For Depth					0.0m to 1.5m	0.0m to 3.0m			
	Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.	For Lift 0.0m to 1.5m					0.815	1.215			
		For Lift 1.5m to 3.0m						0.815			
	From Manhole RP 14 to RP 14.1										
	CH0.00	579.868	578.998	578.898			0.970	0.955			
	CH2.80	580.088	579.248	579.148			0.940				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.100	0.815	0.705	1.207		19.348	20.555
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.100	0.815	0.150	0.257		4.923	5.180
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.100	0.815	0.100	0.171		3.282	3.453
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.100	0.815	0.100	0.171		3.304	3.475
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.335		4.688	5.123
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			2.350			2.350		0.000	2.350
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.634			
	pipe area	1.00		0.785	2.100	0.315	0.315	0.164			
	Murrum bedding							0.171			
								0.335			
		Net Qty = A - B						1.300		22.865	24.65
	Item No. : 35 Shifting of Existing Utilities Length considered up to 400 mm including all and as directed by Engineer In-Charge				0.002			0.002		0.045	0.047



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :- 195

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

1

RA 11 Rohidaspora-300mm RCC-300mm Dia

11th RA BILL MEASUREMENTS

Branch Sewer at "Rohidaspora"

Branch Sewer at "Rohidaspora "											
Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	300mm dia										
	300 mm Dia-Branch Sewer at "Rohidaspora " (Width of Trench -0.300+0.08+0.08+0.5=0.960m)										
	For Width of Trench Calculation Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.	For Depth				0.0m to 1.5m		0.0m to 3.0m			
		For Lift 0.0m to 1.5m				0.960		1.360 ✓			
		For Lift 1.5m to 3.0m						0.960 ✓			
	Nalla										
	CH0.00	576.348	574.678	574.478			1.870	1.870			
	CH2.95	576.348	574.678	574.478			1.870				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.750	1.360	1.500	3.570	20.555	24.125	
	(b) For Lift 1.5m to 3.0m	1			1.750	0.960	0.370	0.622	0.000	0.622	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.750	0.960	0.200	0.336	3.475	3.811	
	Item No. : 11 Transportation of earth Transportation charges including							0.534	5.023	5.557	
	Extra Item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			2.500			2.500	0.000	2.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							4.192			
	Deduction										
	pipe area	1		0.785	1.750	0.380	0.380	0.198			
	Murum bedding							0.336			
	Total = B							0.534			
		Net Qty = A - B						3.657	24.165	27.822	
	RP 1										
	CH2.95	576.348	574.678	574.478			1.870	1.874			
	CH13.95	576.368	574.690	574.490			1.878				
	Item No. 1 :- Excavation for foundation/pipe trenches In all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.600	1.360	1.250	14.620	24.125	38.745	
	(b) For Lift 1.5m to 3.0m	1			8.600	0.960	0.374	3.088	0.622	3.709	
	Item No. 2 :- Excavation for foundation/pipe trenches In Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.600	1.360	0.150	1.754	5.180	6.934	
	Item No. 4:- Excavation for foundation/pipe trenches In soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.600	1.360	0.100	1.170	3.453	4.623	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.600	0.960	0.200	1.651	3.811	5.463	
	Item No. : 11 Transportation of earth Transportation charges including							2.626	5.557	8.183	
	Extra Item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			10.000			10.000	2.500	12.500	



Signature of Khilari Infrastructure Pvt. Ltd.

Signature of GECPL

AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. 196
Page No. 1

RA 12 Rohidaspora-300mm RCC RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							20.632			
	Deduction										
	pipe area	1		0.785	8.600	0.380	0.380	0.975			
	Murum bedding							1.651			
	Total = B							2.626			
		Net Qty = A - B						18.006		27.822	45.828
	RP 2										
	CH13.95	576.368	574.690	574.490			1.878	1.799			
	CH42.35	576.278	574.758	574.558			1.720				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.000	1.360	1.250	44.200		38.745	82.945
	(b) For Lift 1.5m to 3.0m	1			26.000	0.960	0.299	7.463		3.709	11.172
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.000	1.360	0.150	5.304		6.934	12.238
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			26.000	1.360	0.100	3.536		4.623	8.159
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			26.000	0.960	0.200	4.992		5.463	10.455
	Item No. : 11 Transportation of earth Transportation charges including							7.939		8.183	16.122
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			27.500			27.500		12.500	40.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							60.503			
	Deduction										
	pipe area	1		0.785	26.000	0.380	0.380	2.947			
	Murum bedding							4.992			
	Total = B							7.939			
		Net Qty = A - B						52.564		45.828	98.392
	RP 3										
	CH42.35	576.278	574.858	574.658			1.620	1.750			
	CH63.15	576.738	575.058	574.858			1.880				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.360	1.250	31.280		82.945	114.25
	(b) For Lift 1.5m to 3.0m	1			18.400	0.960	0.250	4.416		11.172	15.98
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.360	0.150	3.754		12.238	15.92
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.400	1.360	0.100	2.502		8.159	10.66
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.400	0.960	0.200	3.533		10.455	13.987
	Item No. : 11 Transportation of earth Transportation charges including							5.619		16.122	21.741



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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 CIDCO (Airport).

Book No. :- 197

Page No. :-

3

RA 12 Rohidaspora-300mm RCC RCC-300mm Dia

RA 12 Rohidaspora-300mm RCC RCC-300mm Dia											
Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item no.-9, 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			20.000			20.000		40.000	60.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A										
	Deduction							41.952			
	pipe area										
	Murum bedding	1		0.785	18.400	0.380	0.380	2.086			
	Total = B							3.533			
								5.619			
	RP 4	Net Qty = A - B						36.333		98.392	134.725
	CH63.15										
	CH74.15	576.738	575.100	574.900			1.838				
		577.158	575.180	574.980			2.178	2.008			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.600	1.360	1.008	11.790		114.225	126.015
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.600	1.360	0.392	4.585		15.992	20.576
	(b) For Lift 1.5m to 3.0m	1			8.600	0.960	0.508	4.194		0.000	4.194
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.600	1.360	0.100	1.170		10.661	11.831
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.600	0.960	0.200	1.651		13.987	15.639
	Item No. : 11 Transportation of earth Transportation charges including							2.626		21.741	24.367
	Extra item no.-9, 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			10.000			10.000		60.000	70.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A										
	Deduction							21.738			
	pipe area	1		0.785	8.600	0.380	0.380	0.975			
	Murum bedding							1.651			
	Total = B							2.626			
		Net Qty = A - B						19.112		134.725	153.837
	RP 5										
	CH74.15	577.158	575.540	575.340			1.818				
	CH81.05	577.458	575.610	575.410			2.048	1.933			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.350	1.360	1.250	7.395		126.015	133.410
	(b) For Lift 1.5m to 3.0m	1			4.350	0.960	0.133	0.555		15.588	16.144
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.350	1.360	0.150	0.887		20.576	21.464
	(b) For Lift 1.5m to 3.0m	1			4.350	0.960	0.300	1.253		4.194	5.447
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.350	1.360	0.100	0.592		11.831	12.422



Signature

Measurement Book

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

Book No. 193
Page No. :-

RA 11 Rohidaspora-300mm RCC RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			4.350	0.960	0.200	0.835		15.639	16.474
	Item No. : 11 Transportation of earth Transportation charges including							1.328		24.367	25.695
	Extra Item no.:-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			6.000			6.000		70.000	76.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							10.682			
	Deduction										
	pipe area	1		0.785	4.350	0.380	0.380	0.493			
	Murum bedding							0.835			
	Total = B							1.328			
		Net Qty = A - B						9.354		153.837	163.191
	From Manhole RDP 6 to RDP 7 old Sewer is utilized upto a Chainage 101.80 for 20.75m Distance										
	RP 7										
	CH101.80	578.098	576.980	576.780			1.318	1.337			
	CH108.65	578.173	577.018	576.818			1.355				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.450	0.960	1.087	4.644		133.410	138.053
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.450	0.960	0.150	0.641		21.464	22.105
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.450	0.960	0.100	0.427		12.422	12.850
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			4.450	0.960	0.200	0.854		16.474	17.328
	Item No. : 11 Transportation of earth Transportation charges including							1.359		25.695	27.054
	Extra Item no.:-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			6.000			6.000		76.000	82.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							5.712			
	Deduction										
	pipe area	1		0.785	4.450	0.380	0.380	0.504			
	Murum bedding							0.854			
	Total = B							1.359			
		Net Qty = A - B						4.353		163.191	167.544
	RP 8										
	CH108.65	578.173	577.018	576.818			1.355	1.453			
	CH116.05	578.408	577.058	576.858			1.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	0.960	1.203	5.774		138.053	143.828
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	0.960	0.150	0.720		22.105	22.825



Signature



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 CIDCO Aurangabad City.

Book No. :- 199

Page No. :-

5

RA 12 Rohidaspora-300mm RCC RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.000	0.960	0.100	0.480		12.850	13.330
	Item No. : 11 Transportation of earth Transportation charges including				5.000	0.960	0.200	0.960		17.328	18.288
	Extra Item no.:-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			6.500			1.527		27.054	28.581
	Item No 30 :- Refilling the excavated trenches ...							6.500		82.000	88.500
	Total Excavation= A										
	Deduction							6.974			
	pipe area	1		0.785	5.000	0.380	0.380	0.567			
	Murum bedding							0.960			
	Total = B							1.527			
	Net Qty = A - B							5.448		167.544	172.992
	RP 9										
	CH116.05	578.408	577.058	576.858			1.550				
	CH128.15	578.658	577.078	576.878			1.780	1.665			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.700	1.360	0.915	12.071		143.828	155.898
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.700	1.360	0.485	6.398		22.825	29.223
	(b) For Lift 1.5m to 3.0m	1			9.700	0.960	0.165	1.536		5.447	6.983
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.700	1.360	0.100	1.319		13.330	14.649
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.700	0.960	0.200	1.862		18.288	20.151
	Item No. : 11 Transportation of earth Transportation charges including							2.962		28.581	31.543
	Extra Item no.:-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			11.300			11.300		88.500	99.800
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							21.324			
	Deduction										
	pipe area	1		0.785	9.700	0.380	0.380	1.100			
	Murum bedding							1.862			
	Total = B							2.962			
	Net Qty = A - B							18.363		172.992	191.354
	RP 10						1.688				
	CH128.15	578.658	577.170	576.970			1.830	1.759			
	CH139.05	578.878	577.248	577.048							
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	1.360	0.909	10.508		155.898	166.406



Continued in MB 4612/01



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 001
Page No. :-

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

6

RA 11 Rohidaspora-300mm RCC RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches In Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	1.360	0.491	5.676		29.223	34.899
	(b) For Lift 1.5m to 3.0m	1			8.500	0.960	0.259	2.113		6.983	9.097
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	1.360	0.100	1.156		14.649	15.805
	Item No. 7 :- Filling In plinth and floors/ trenches etc complete.(bedding)	1			8.500	0.960	0.200	1.632		20.151	21.783
	Item No. : 11 Transportation of earth Transportation charges including							2.596		31.543	34.138
	Extra Item no.-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			10.000			10.000		99.800	109.800
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							19.453			
	Deduction										
	pipe area	1		0.785	8.500	0.380	0.380	0.964			
	Murrum bedding							1.632			
	Total = B							2.596			
				Net Qty = A - B				16.858		191.354	208.212
	RP 11										
	CH139.05	578.878	577.350	577.150			1.728	1.894			
	CH153.45	579.338	577.478	577.278			2.060				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.850	1.360	1.250	20.145		166.406	186.551
	(b) For Lift 1.5m to 3.0m	1			11.850	0.960	0.094	1.069		16.144	17.213
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.850	1.360	0.150	2.417		34.899	37.316
	(b) For Lift 1.5m to 3.0m	1			11.850	0.960	0.300	3.413		9.097	12.510
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.850	1.360	0.100	1.612		15.805	17.416
	Item No. 7 :- Filling In plinth and floors/ trenches etc complete.(bedding)	1			11.850	0.960	0.200	2.275		21.783	24.058
	Item No. : 11 Transportation of earth Transportation charges including							3.618		34.138	37.757
	Extra Item no.-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			13.500			13.500		109.800	123.300
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							28.656			
	Deduction										
	pipe area	1		0.785	11.850	0.380	0.380	1.343			
	Murrum bedding							2.275			
	Total = B							3.618			
				Net Qty = A - B				25.038		208.212	233.250



Signature



AURANGABAD MUNICIPAL CORPORATION.

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erection, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, 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 CIPP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 007

Page No. :-

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

Authority No. AMU Ward B&C UJSSM1/2014/181 Data 01 07 2014

RA 11 Rohidaspura-300mm RCC RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	RP 12										
	CH153.45	579.338	577.528	577.328			2.010	2.050			
	CH165.95	579.498	577.608	577.408			2.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.800	1.360	1.250	16.660		186.551	203.211
	(b) For Lift 1.5m to 3.0m	1			9.800	0.960	0.550	5.174		17.213	22.388
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.800	1.360	0.150	1.999		37.316	39.315
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.800	1.360	0.100	1.333		17.416	18.749
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			9.800	0.960	0.200	1.882		24.058	25.939
	Item No. : 11 Transportation of earth Transportation charges including							2.992		37.757	40.749
	Extra item no.-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			11.700			11.700		123.300	135.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							25.166			
	Deduction										
	pipe area	1		0.785	9.800	0.380	0.380	1.111			
	Murrum bedding							1.882			
	Total = B							2.992			
	Net Qty = A - B							22.174		233.250	255.424
	RP 13										
	CH165.95	579.498	578.038	577.838			1.660	1.815			
	CH173.65	579.868	578.098	577.898			1.970				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	1.360	0.715	4.862		203.211	208.073
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	1.360	0.500	3.400		39.315	42.715
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.000	1.360	0.285	1.938		18.749	20.687
	(b) For Lift 1.5m to 3.0m	1			5.000	0.960	0.315	1.512		0.000	1.512
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			5.000	0.960	0.200	0.960		25.939	26.899
	Item No. : 11 Transportation of earth Transportation charges including							1.527		40.749	42.276
	Extra Item no.-9.4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			6.900			6.900		135.000	141.900



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

Book No. 003
Page No.

8

RA 12-Rohidaspora-300mm RCC RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							11.712			
	Deduction										
	pipe area	1		0.785	5.000	0.380	0.380	0.567			
	Murum bedding							0.960			
	Total = B							1.527			
		Net Qty = A - B						10.185		255.424	265.609
	RP 14										
	CH173.65	579.868	578.228	578.028			1.840	1.955			
	CH192.95	580.238	578.368	578.168			2.070				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.600	1.360	1.055	23.818		208.073	231.891
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.600	1.360	0.345	7.789		42.715	50.504
	(b) For Lift 1.5m to 3.0m	1			16.600	0.960	0.155	2.470		12.510	14.980
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.600	1.360	0.100	2.258		20.687	22.945
	(b) For Lift 1.5m to 3.0m	1			16.600	0.960	0.300	4.781		1.512	6.293
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.600	0.960	0.200	3.187		26.899	30.087
	Item No. : 11 Transportation of earth Transportation charges including							5.069		42.276	47.345
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			18.500			18.500		141.900	160.400
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							41.115			
	Deduction										
	pipe area	1		0.785	16.600	0.380	0.380	1.882			
	Murum bedding							3.187			
	Total = B							5.069			
		Net Qty = A - B						36.046		265.609	301.655
	RP 15										
	CH192.95	580.238	578.968	578.768			1.470	1.655			
	CH218.45	580.803	579.163	578.963			1.840				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			22.950	1.360	0.605	18.883		231.891	250.774
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			22.950	1.360	0.650	20.288		50.504	70.792
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			22.950	1.360	0.245	7.647		22.945	30.592
	(b) For Lift 1.5m to 3.0m	1			22.950	0.960	0.155	3.415		6.293	9.708
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			22.950	0.960	0.200	4.406		30.087	34.493



Signature



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, Freecing, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshavadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CHDO (Airport), Construction, Freecing, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.95 and CHDO (Airport), Providing, lowering, laying jointing and testing rising main GRP DI line from Golwadi SPS to Nakshavadi (Kanchanwadi) STP and Ward No.95 to

Book No. :-

004

Page No. :-

9

RA 12, Rahidaspura-300mm RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including							7.008		47.345	54.353
	Extra Item no.: 9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			24.700			24.700		160.400	185.100
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							50.233			
	Deduction										
	pipe area	1		0.785	22.950	0.380	0.380	2.601			
	Murum bedding							4.406			
	Total = B							7.008			
				Net Qty = A - B				43.225		301.655	344.880
	RP 16										
	CH218.45	580.803	579.463	579.263			1.540	1.675			
	CH236.95	581.263	579.653	579.453			1.810				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.100	1.360	1.375	30.107		250.774	280.881
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.100	1.360	0.125	2.737		70.792	73.529
	(b) For Lift 1.5m to 3.0m	1			16.100	0.960	0.175	2.705		14.980	17.684
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.100	0.960	0.200	3.091		34.493	37.584
	Item No. : 11 Transportation of earth Transportation charges including							4.916		54.353	59.269
	Extra Item no.: 9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			17.700			17.700		185.100	202.800
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							35.549			
	Deduction										
	pipe area	1		0.785	16.100	0.380	0.380	1.825			
	Murum bedding							3.091			
	Total = B							4.916			
				Net Qty = A - B				30.633		344.880	375.513
	RP 17										
	CH236.95	581.263	579.953	579.753			1.510	1.537			
	CH247.75	581.373	580.010	579.810			1.563				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	0.960	1.400	11.290		280.881	292.171
	(b) For Lift 1.5m to 3.0m	1			8.400	0.960	0.037	0.298		22.388	22.686
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	0.960	0.100	0.806		73.529	74.335
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.400	0.960	0.200	1.613		37.584	39.197
	Item No. : 11 Transportation of earth Transportation charges including							2.565		59.269	61.834
	Extra Item no.: 9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			10.000			10.000		202.800	212.800



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :- 005

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

10

RA 12 Rohidaspora-300mm RCC RCC-300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							12.394			
	Deduction										
	pipe area	1		0.785	8.400	0.380	0.380	0.952			
	Murum bedding							1.613			
	Total = B							2.565			
								9.829		375.513	385.342
	RP 18										
	CH247.75	581.373	580.075	579.875			1.498	1.463			
	CH255.10	581.363	580.135	579.935			1.428				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.950	0.960	1.363	6.477		292.171	298.648
	(b) For Lift 1.5m to 3.0m	1			4.950	0.960	0.000	0.000		22.686	22.686
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.950	0.960	0.100	0.475		74.335	74.810
	(b) For Lift 1.5m to 3.0m	1			4.950	0.960	0.000	0.000		17.684	17.684
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.950	0.960	0.000	0.000		30.592	30.592
	(b) For Lift 1.5m to 3.0m	1			4.950	0.960	0.000	0.000		9.708	9.708
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.950	0.960	0.200	0.950		39.197	40.147
	Item No. : 11 Transportation of earth Transportation charges including							1.512		61.834	63.345
	Extra item no.-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			6.500			6.500		212.800	219.300
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							6.952			
	Deduction										
	pipe area	1		0.785	4.950	0.380	0.380	0.561			
	Murum bedding							0.950			
	Total = B							1.512			
								5.441		385.342	390.783
	Item No. : 35 Shifting of Existing Utilities Length considered up to 400 mm including all and as directed by Engineer In-Charge				0.219			0.219		0.047	0.266



Signature

AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahm Ab, 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 No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City

Book No. :-

006

Page No. :-

1 of 11

RA 12 Rohildaspura-300mm RCC Manhole Excavation

12th RA BILL MEASUREMENTS

Branch Sewer at "Rohildaspura "

Date	Particulars of work	DETAILS						Content of area	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.70m										
	Area for chamber upto 2m=2.70 X 2.70=7.29m										
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth -0.9+0.5+0.5+0.5=2.40m										
	Bredth for chamber up to 1.5m=2.40 X 2.40=5.76m										
	RP 1	0.9m Dia									
	CH2.95	576.348	574.678	574.428			1.920				
	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	5.760	1.250	5.652		0.000	5.652
	(b) For Lift 1.5m to 3.0m	1			0.785	5.760	0.420	1.899		0.000	1.899
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.760	0.150	0.678		0.000	0.678
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.760	0.100	0.452		0.000	0.452
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.390		0.000	2.390
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							8.681			
	Deduction										
	Brick work	1.00		0.785	1.200	1.200	1.670	1.888			
	PCC	1.00		0.785	1.600	1.600	0.250	0.502			
	Total (B)							2.390			
		Net Qty = A - B						6.291		0.000	6.291
	RP 2	0.9m Dia									
	CH13.95	576.368	574.690	574.440			1.928				
	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	5.760	1.250	5.652		5.652	11.304
	(b) For Lift 1.5m to 3.0m	1			0.785	5.760	0.428	1.935		1.899	3.834
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	5.760	0.150	0.678		0.678	1.356



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