



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. :- **017**

Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Vencture)
Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

Date	Particulars of work	DETAILS						Content of area	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			0.785	7.075	0.150	0.833		0.833	1.666
	Item No. : 11 Transportation of earth Transportation charges							3.583		3.852	7.435
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							13.052			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.100	2.83			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							3.58			
		Net Qty = A - B							9.47	10.310	19.78
	LA 54.3										
	CH33.00	596.990	595.490	595.240			1.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.000	5.554		11.108	16.662
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.350	1.944		3.888	5.832
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.250	1.388		10.552	11.941
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.150	0.833		1.666	2.499
	Item No. : 11 Transportation of earth Transportation charges							2.775		7.435	10.210
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.719			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.500	2.02			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							2.77			
		Net Qty = A - B							6.94	19.779	26.72



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Book No. :-

Page No. :-

018

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

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

3

L Sewer 1.2m MH Excavation

Date	Particulars of work	DETAILS						Content of area	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										
	LA 54.4										
	CH46.70	596.120	595.520	595.270			0.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.350	1.099		16.662	17.761
	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	0.350	1.099		5.832	6.931
	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	0.150	0.471		2.499	2.970
	Item No. : 11 Transportation of earth Transportation charges							1.175		10.210	11.384
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.669			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.600	0.63			
	soling							0.00			
	PCC	1.00		0.785	1.66	1.66	0.25	0.54			
	Murrum bedding							0.00			
	Total (B)							1.17			
	Net Qty = A - B							1.49		26.723	28.22



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Book No. :-

Page No. :-

019

L Sewer 1.5m MH Excavation

1

12th RA BILL MEASUREMENTS

Sewer "L"

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Excavation of Chamber - For 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.5+0.5=3.20m Breadth for Manhole=3.2*3.2=10.24m										
	LR9. 33 CH974.90	598.049	595.489	595.239			2.810				
	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	10.240	1.500	12.058	17.761	29.818	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.310	10.530	0.000	10.530	
	Item No. : 11 Transportation of earth Transportation charges							7.315	11.384	18.699	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.588			
	Deduction										
	Brick work	1			0.785	2.280	2.280	0.560	2.285		
		1			0.785	1.540	1.540	2.000	3.723		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								7.315			
	Net Qty = A - B							15.273	28.218	43.491	
	LR9. 34 CH1008.60	598.274	595.539	595.289			2.985				
	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	10.240	1.500	12.058	29.818	41.876	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.485	11.937	10.530	22.467	
	Item No. : 11 Transportation of earth Transportation charges							8.029	18.699	26.728	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							23.995			
	Deduction										
	Brick work	1			0.785	2.280	2.280	0.735	2.999		
		1			0.785	1.540	1.540	2.000	3.723		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								8.029			
	Net Qty = A - B							15.966	43.491	59.456	
	LR9. 35 CH1049.80	599.254	595.614	595.364			3.890				
	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	10.240	1.500	12.058	41.876	53.933	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	22.467	34.525	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.890	7.154	0.000	7.154	
	Item No. : 11 Transportation of earth Transportation charges							11.722	26.728	38.451	



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Book No. :-

Page No. :- 020

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

2

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction						31.269				
	Brick work	1		0.785	2.280	2.280	1.640	6.692			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B						11.722				
	LR9.36						19.547	59.456	79.004		
	CH1081.00	599.489	595.689	595.439			4.050				
	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	10.240	1.500	12.058	53.933		
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	34.525		
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.050	8.440	7.154		
	Item No. : 11 Transportation of earth Transportation charges							12.375	38.451		
	Item No. 30 :- Refilling the excavated trenches ...								50.826		
	Total Excavation=										
	Deduction						32.556				
	Brick work	1		0.785	2.280	2.280	1.800	7.345			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B						12.375				
	LR9.39						20.180	79.004	99.184		
	CH1230.80	601.576	596.526	596.276			5.300				
	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	10.240	1.500	12.058	65.991		
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	46.583		
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	15.594		
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.800	6.431	0.000		
	Item No. : 11 Transportation of earth Transportation charges							17.476	50.826		
	Item No. 30 :- Refilling the excavated trenches ...								68.302		
	Total Excavation=										
	Deduction						42.604				
	Brick work	1		0.785	2.280	2.280	3.050	12.446			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B						17.476				
							25.128	99.184	124.312		



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Book No. :-
Page No. :- **021**

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

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

3

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
LR9.40											
CH1299.50		601.744	597.194	596.944			4.800				
	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	10.240	1.500	12.058	78.049	90.106	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	58.640	70.698	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	27.652	39.710	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.300	2.412	6.431	8.842	
	Item No. : 11 Transportation of earth Transportation charges							15.436	68.302	83.737	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							38.584			
	Deduction										
	Brick work	1			0.785	2.280	2.280	2.550	10.406		
		1			0.785	1.540	1.540	2.000	3.723		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								15.436			
	Net Qty = A - B							23.149	124.312	147.460	
LR9.41											
CH1338.20		601.787	597.487	597.237			4.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	90.106	102.164	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	70.698	82.755	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	39.710	51.767	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.050	0.402	8.842	9.244	
	Item No. : 11 Transportation of earth Transportation charges							14.415	83.737	98.153	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							36.575			
	Deduction										
	Brick work	1			0.785	2.280	2.280	2.300	9.386		
		1			0.785	1.540	1.540	2.000	3.723		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								14.415			
	Net Qty = A - B							22.159	147.460	169.620	
LR9.42											
CH1371.90		602.568	598.168	597.918			4.650				
	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	10.240	1.500	12.058	102.164	114.221	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	82.755	94.813	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	51.767	63.825	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.150	1.206	9.244	10.450	
	Item No. : 11 Transportation of earth Transportation charges							14.824	98.153	112.976	



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Book No. :- 022
Page No. :-

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						37.379				
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.400	9.794			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B						14.824				
	LR9.43						22.555		169.620	192.175	
	CH1413.10	602.696	598.956	598.706			3.990				
	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	10.240	1.500	12.058	114.221	126.279	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	94.813	106.871	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.990	7.958	63.825	71.783	
	Item No. : 11 Transportation of earth Transportation charges							12.130	112.976	125.106	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						32.073				
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.740	7.100			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B						12.130				
	LR9.32.1						19.943		192.175	212.118	
	CH20.00	598.329	595.580	595.330			2.999				
	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	10.240	1.500	12.058	126.279	138.337	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.499	12.050	106.871	118.920	
	Item No. : 11 Transportation of earth Transportation charges							8.086	125.106	133.193	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						24.107				
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.749	3.056			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B						8.086				
	LR9.32.2						16.021		212.118	228.139	
	CH53.70	598.839	595.640	595.390			3.449				
	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	10.240	1.500	12.058	138.337	150.394	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	118.920	130.978	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.449	3.609	71.783	75.392	



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(From No.52)

Measurement Book

Book No. :- 023
Page No. :-

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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

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Item No. : 11 Transportation of earth Transportation charges							9.923		133.193	143.115
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							27.724			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.199	4.893			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								9.923			
	Net Qty = A - B							17.802		228.139	245.940
	LR9.32.3										
	CH79.90	599.149	595.674	595.424			3.725				
	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	10.240	1.500	12.058		150.394	162.452
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		130.978	143.035
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.725	5.828		75.392	81.220
	Item No. : 11 Transportation of earth Transportation charges							11.049		143.115	154.164
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							29.943			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.475	6.019			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								11.049			
	Net Qty = A - B							18.894		245.940	264.835
	LR9.32.4										
	CH113.60	598.819	595.734	595.484			3.335				
	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	10.240	1.500	12.058		162.452	174.509
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		143.035	155.093
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.335	2.693		81.220	83.913
	Item No. : 11 Transportation of earth Transportation charges							9.457		154.164	163.621
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.808			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.085	4.428			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								9.457			
	Net Qty = A - B							6.451		264.835	282.185



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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. :-

Page No. :-

024

6

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
LR9.32.5											
CH152.30		598.589	595.894	595.644			2.945				
	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	10.240	1.500	12.058			
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.445	11.615	174.509	186.567	
	Item No. : 11 Transportation of earth Transportation charges							7.866	155.093	166.708	
	Item No. 30 :- Refilling the excavated trenches ...								163.621	171.487	
	Total Excavation=							23.673			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.695	2.836			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B							7.866			
LR9.32.6								15.807	282.185	297.993	
CH188.50		598.869	596.065	595.815			3.054				
	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	10.240	1.500	12.058	186.567	198.625	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	166.708	178.766	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.054	0.434	83.913	84.347	
	Item No. : 11 Transportation of earth Transportation charges							8.311	171.487	179.798	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							24.549			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.804	3.281			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B							8.311			
LR9.32.7								16.239	297.993	314.231	
CH232.20		599.169	596.130	595.880			3.289				
	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	10.240	1.500	12.058	198.625	210.682	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	178.766	190.824	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.289	2.323	84.347	86.670	
	Item No. : 11 Transportation of earth Transportation charges							9.270	179.798	189.068	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.438			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.039	4.240			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
	Net Qty = A - B							9.270			
								17.169	314.231	331.400	



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

Book No. :-
Page No. :- **025**

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
LR9.32. 8											
CH285.90		599.849	596.270	596.020			3.829				
	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	10.240	1.500	12.058	210.682	222.740	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	190.824	202.881	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.829	6.664	86.670	93.334	
	Item No. : 11 Transportation of earth Transportation charges							11.473	189.068	200.541	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.779			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.579	6.443			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								11.473			
	Net Qty = A - B							19.306	331.400	350.706	
LR9.32. 9											
CH332.10		600.069	596.470	596.220			3.849				
	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	10.240	1.500	12.058	222.740	234.797	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	202.881	214.939	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.849	6.825	93.334	100.158	
	Item No. : 11 Transportation of							11.555	200.541	212.096	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.940			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.599	6.525			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								11.555			
	Net Qty = A - B							19.385	350.706	370.091	
LR9.32. 10											
CH378.30		600.639	596.670	596.420			4.219				
	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	10.240	1.500	12.058	234.797	246.855	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	214.939	226.996	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.219	9.799	100.158	109.957	
	Item No. : 11 Transportation of							13.065	212.096	225.160	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							33.914			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.969	8.035			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								13.065			
	Net Qty = A - B							20.849	370.091	390.940	



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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. :- 026
Page No. :-

8

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
LR9.32.11											
CH452.00		600.859	596.995	596.745			4.114				
	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	10.240	1.500	12.058	246.855	258.913	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	226.996	239.054	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.114	8.955	109.957	118.912	
	Item No. : 11 Transportation of earth Transportation charges							12.636	225.160	237.797	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							33.070			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.864	7.607			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								12.636			
	Net Qty = A - B							20.434	390.940	411.374	
LA 49	Thakarenagar to API corner										
CH2539.00		597.980	593.610	593.360			4.620				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.150	9.244	258.913	268.157	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	239.054	251.112	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	6.931	8.538	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	0.000	12.058	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.120	0.965	0.000	0.965	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	2.970	4.176	
	Item No. : 11 Transportation of earth Transportation charges							14.701	237.797	252.498	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							37.137			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.370	9.671			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								14.701			
	Net Qty = A - B							22.436	411.374	433.810	
LA 50											
CH2565.20		597.525	594.285	594.035			3.490				
	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	10.240	1.150	9.244	268.157	277.401	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.800	6.431	251.112	257.542	



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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. :027

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	10.240	0.200	1.608		8.538	10.146
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.700	5.627		11.941	17.568
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.490	3.939		12.058	15.996
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft				0.785	10.240	0.150	1.206		4.176	5.382
	(a) For Lift 0 to 1.5m	1						10.090		252.498	262.587
	Item No. : 11 Transportation of earth Transportation charges										
	Item No. 30 :- Refilling the excavated trenches ...							28.054			
	Total Excavation=										
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.240	5.060			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								10.090			
	Net Qty = A - B							17.964		433.810	451.774
	LA 51										
	CH2606.40	597.655	594.510	594.260			3.395				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	10.240	1.150	9.244		277.401	286.645
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.550	4.421		257.542	261.963
	(b) For Lift 1.5m to 3.0m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	10.240	0.200	1.608		10.146	11.754
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.950	7.636		17.568	25.204
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.395	3.175		15.996	19.172
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft				0.785	10.240	0.150	1.206		5.382	6.588
	(a) For Lift 0 to 1.5m	1						9.702		262.587	272.290
	Item No. : 11 Transportation of earth Transportation charges										
	Item No. 30 :- Refilling the excavated trenches ...							27.290			
	Total Excavation=										
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.145	4.672			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								9.702			
	Net Qty = A - B							17.588		451.774	469.362
	LA 52										
	CH2645.10	598.015	594.615	594.365			3.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	10.240	1.150	9.244		286.645	295.889
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.600	4.823		261.963	266.786
	(b) For Lift 1.5m to 3.0m	1									



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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. :- 028

Page No. :-

10

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	11.754	13.361	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.900	7.235	25.204	32.439	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.650	5.225	19.172	24.397	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	6.588	7.793	
	Item No. : 11 Transportation of earth Transportation charges							10.743	272.290	283.032	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							29.340			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.400	5.713			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								10.743			
	Net Qty = A - B							18.597	469.362	487.96	
	LA 53										
	CH2681.30	598.140	595.055	594.805			3.335				
	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	10.240	0.950	7.636	295.889	303.56	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.450	3.617	266.786	270.44	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.400	3.215	13.361	16.57	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.050	8.440	32.439	40.89	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.335	2.693	24.397	27.09	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	7.793	8.99	
	Item No. : 11 Transportation of earth Transportation charges							9.457	283.032	292.49	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.808			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.085	4.428			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								9.457			
	Net Qty = A - B							17.351	487.960	505.31	
	LA 54										
	CH2715.00	598.765	595.175	594.925			3.840				
	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	10.240	1.000	8.038	303.526	311.564	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, 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. :- 029

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

L Sewer 1.5m MH Excavation

11

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.				0.785	10.240	0.350	2.813		16.577	19.390
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058		40.879	52.937
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.840	6.752		27.089	33.842
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft				0.785	10.240	0.150	1.206		8.999	10.205
	(a) For Lift 0 to 1.5m	1						11.518		292.490	304.008
	Item No. : 11 Transportation of earth Transportation charges										
	Item No. 30 :- Refilling the excavated trenches ...							30.867			
	Total Excavation=										
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.590	6.488			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								11.518			
	Net Qty = A - B							19.349		505.310	524.660
	LA 55										
	CH2741.20	599.655	595.255	595.005			4.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	10.240	1.000	8.038		311.564	319.603
	(a) For Lift 0 to 1.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	10.240	0.350	2.813		19.390	22.204
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058		52.937	64.994
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		33.842	45.899
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.150	1.206		0.965	2.170
	(d) For Lift 4.5m to 6.0m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft				0.785	10.240	0.150	1.206		10.205	11.411
	(a) For Lift 0 to 1.5m	1						14.824		304.008	318.831
	Item No. : 11 Transportation of earth Transportation charges										
	Item No. 30 :- Refilling the excavated trenches ...							37.379			
	Total Excavation=										
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.400	9.794			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								14.824			
	Net Qty = A - B							22.555		524.660	547.215
	LA 56										
	CH2782.40	598.665	595.365	595.115			3.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	10.240	1.000	8.038		319.603	327.641
	(a) For Lift 0 to 1.5m	1									



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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. :- **037**
Page No. :-

12

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.350	2.813		22.204	25.017
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		64.994	77.052
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.550	4.421		45.899	50.320
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000		2.170	2.170
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		11.411	12.616
	Item No. : 11 Transportation of earth Transportation charges							10.335		318.831	329.166
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.536			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.300	5.305			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								10.335			
	Net Qty = A - B							18.202		547.215	565.416
	LA 57										
	CH2818.60	599.065	595.465	595.215			3.850				
	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	10.240	0.950	7.636		327.641	335.277
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.400	3.215		25.017	28.232
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		77.052	89.109
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.850	6.833		50.320	57.153
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		12.616	13.822
	Item No. : 11 Transportation of earth Transportation charges							11.559		329.166	340.725
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.948			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.600	6.529			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								11.559			
	Net Qty = A - B							19.389		565.416	584.805
	LA 58										
	CH2847.30	599.750	595.850	595.600			4.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.950	7.636		335.277	342.914



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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. :-

031

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

L Sewer 1.5m MH Excavation

13

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			0.785	10.240	0.400	3.215		28.232	31.448
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		89.109	101.167
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.150	9.244		57.153	66.397
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		13.822	15.028
	Item No. : 11 Transportation of earth Transportation charges							12.783		340.725	353.508
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							33.359			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.900	7.753			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								12.783			
	Net Qty = A - B							20.576		584.805	605.382
	LA 59										
	CH2886.00	600.045	596.250	596.000			4.045				
	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	10.240	1.000	8.038		342.914	350.952
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.350	2.813		31.448	34.261
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		101.167	113.225
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.045	8.400		66.397	74.797
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		15.028	16.234
	Item No. : 11 Transportation of earth Transportation charges							12.355		353.508	365.863
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							32.515			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.795	7.325			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								12.355			
	Net Qty = A - B							20.161		605.382	625.542
	LA 60										
	CH2925.00	600.750	596.750	596.500			4.250				
	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	10.240	1.000	8.038		350.952	358.991





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 032

Page No. :-

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

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

L Sewer 1.5m MH Excavation

14

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			0.785	10.240	0.350	2.813	34.261	37.075	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	113.225	125.282	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.250	10.048	74.797	84.845	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	16.234	17.439	
	Item No. : 11 Transportation of earth Transportation charges							13.191	365.863	379.054	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							34.163			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.000	8.161			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								13.191			
	Net Qty = A - B							20.972	625.542	646.514	
	LA 61										
	CH2968.00	600.160	596.860	596.610			3.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.000	8.038	358.991	367.029	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.350	2.813	37.075	39.888	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	125.282	137.340	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.550	4.421	84.845	89.266	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	17.439	18.645	
	Item No. : 11 Transportation of earth Transportation charges							10.335	379.054	389.389	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.536			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.300	5.305			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								10.335			
	Net Qty = A - B							18.202	646.514	664.716	
	LA 62										
	CH3000.00	601.510	597.710	597.460			4.050				
	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	10.240	1.000	8.038	367.029	375.068	





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :-

Page No. :-

033

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

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

L Sewer 1.5m MH Excavation

15

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	10.240	0.350	2.813		39.888	42.701
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058		137.340	149.397
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.050	8.440		89.266	97.707
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft				0.785	10.240	0.150	1.206		18.645	19.851
	(a) For Lift 0 to 1.5m	1						12.375		389.389	401.764
	Item No. : 11 Transportation of earth Transportation charges										
	Item No. 30 :- Refilling the excavated trenches ...							32.556			
	Total Excavation=										
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.800	7.345			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Solling	1		0.785	2.580	2.580	0.000	0.000			
								12.375			
	Net Qty = A - B							20.180		664.716	684.896
	LA 63										
	CH3037.00	600.910	597.810	597.560			3.350				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	10.240	1.000	8.038		375.068	383.106
	(a) For Lift 0 to 1.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				0.785	10.240	0.350	2.813		42.701	45.515
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058		149.397	161.455
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.350	2.813		97.707	100.520
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft				0.785	10.240	0.150	1.206		19.851	21.057
	(a) For Lift 0 to 1.5m	1									
	Item No. : 11 Transportation of earth Transportation charges							9.519		401.764	411.282
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							26.929			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.100	4.489			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Solling	1		0.785	2.580	2.580	0.000	0.000			
								9.519			
	Net Qty = A - B							17.410		684.896	702.306
	LA 64										
	CH3067.00	600.710	597.910	597.660			3.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				0.785	10.240	1.000	8.038		383.106	391.144
	(a) For Lift 0 to 1.5m	1									





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. 08 and CIDCO (Airport) Providing, lowering, laying jointing and testing rising main

Book No. :- 034
Page No. :-

16

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.350	2.813		45.515	48.328
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		161.455	173.513
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.050	0.402		100.520	100.922
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		21.057	22.262
	Item No. : 11 Transportation of earth Transportation charges							8.294		411.282	419.577
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							24.517			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.800	3.265			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								8.294			
	Net Qty = A - B							16.223		702.306	718.529
	LA 65										
	CH3111.00	600.895	597.995	597.745			3.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.000	8.038		391.144	399.183
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.350	2.813		48.328	51.142
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		173.513	185.570
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.150	1.206		100.922	102.128
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		22.262	23.468
	Item No. : 11 Transportation of earth Transportation charges							8.702		419.577	428.279
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							25.321			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.900	3.673			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								8.702			
	Net Qty = A - B							16.619		718.529	735.148
	LA 66										
	CH3148.20	600.795	598.095	597.845			2.950				
	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	10.240	1.000	8.038		399.183	407.221
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.350	2.813		51.142	53.955
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.450	11.656		185.570	197.226



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone 1 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. 035

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

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

17

L Sewer 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		23.468	24.674
	Item No. : 11 Transportation of earth Transportation charges							7.886		428.279	436.165
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							23.713			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.700	2.857			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								7.886			
	Net Qty = A - B							15.827		735.148	750.975
	LM-21.1										
	CH21.20	586.875	584.770	584.520				2.355			
	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	10.240	1.500	12.058		407.221	419.279
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.855	6.873		270.404	277.277
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000		118.912	118.912
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000		10.450	10.450
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.000	0.000		53.955	53.955
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000		197.226	197.226
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000		102.128	102.128
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000		2.170	2.170
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.000	0.000		24.674	24.674
	Item No. : 11 Transportation of earth Transportation charges							5.458		436.165	441.624
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.930			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.105	0.428			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
								5.458			
	Net Qty = A - B							13.472		750.975	764.447



Signature

Signature



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :- 036

Page No. :-

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

L Sewer 2.0m MH Excavation

Page 1 of 2

Main Sewer L

1st RA BILL MEASUREMENTS (Excavation of Manhole)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Mukundwadi Station 400mm Dia.										
	Excavation of Chamber - For 2.0m dia Manhole (upto a depth of 5.0m to 9.0m)- 2.0+0.45+0.45+0.5+0.5=3.90m										
	Breadth for Manhole=3.9*3.9=15.21m										
	LR9. 37										
	CH1137.50	601.530	595.839	595.539			5.991				
	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	15.210	1.500	17.910	419.279	437.188	
	(b) For Lift 1.5m to 3.0m	1			0.785	15.210	1.500	17.910	277.277	295.186	
	(c) For Lift 3.0m to 4.5m	1			0.785	15.210	1.500	17.910	118.912	136.822	
	(d) For Lift 4.5m to 6.0m	1			0.785	15.210	1.491	17.802	10.450	28.252	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							31.643	441.624	473.266	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							71.532			
	Deduction										
	Brick work	1			0.785	2.980	2.980	1.691	11.788		
		1			0.785	2.780	2.780	2.000	12.134		
		1			0.785	1.790	1.790	2.000	5.030		
	PCC	1			0.785	3.380	3.380	0.300	2.690		
	Soling	1			0.785	3.380	3.380	0.000	0.000		
								31.643			
	Net Qty = A - B							39.889	764.447	804.336	
	LR9. 38										
	CH1186.80	601.615	595.920	595.620			5.995				
	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	15.210	1.500	17.910	437.188	455.098	
	(b) For Lift 1.5m to 3.0m	1			0.785	15.210	1.500	17.910	295.186	313.096	
	(c) For Lift 3.0m to 4.5m	1			0.785	15.210	1.500	17.910	136.822	154.732	
	(d) For Lift 4.5m to 6.0m	1			0.785	15.210	1.495	17.850	28.252	46.102	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	15.210	0.000	0.000	53.955	53.955	
	(b) For Lift 1.5m to 3.0m	1			0.785	15.210	0.000	0.000	197.226	197.226	
	(c) For Lift 3.0m to 4.5m	1			0.785	15.210	0.000	0.000	102.128	102.128	
	(d) For Lift 4.5m to 6.0m	1			0.785	15.210	0.000	0.000	2.170	2.170	



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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. :- 033
Page No. :-

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

L Sewer Disposal qty

11th R A BILL MEASUREMENTS

L Sewer

Item No. 11										
Disposal of excavated material including loading the excavated material in trucks / tractors and unloading the same at a distance of 10 KMS as directed by engineer-in-charge.										
SR.NO.	Particulars of work	UNIT	DETAILS							
			Chainage		NO	L	B	D	QTY	Total Qty. Of Disposal
			From	To						
1	Mukundwadi station- 400 mm Dia		930.00	1243.60						
	Pipe volume	Cum			0.785	313.60	0.550	0.550	74.47	149.73
	Murum bedding	Cum				313.60	1.200	0.20	75.26	
2	Vishrantwadi- 400 mm Dia		0.00	452.00						
	Pipe volume	Cum			0.785	452.00	0.550	0.550	107.33	215.81
	Murum bedding	Cum				452.00	1.200	0.20	108.48	
3	Thakharenagar to API Corner- 500 mm Dia		2520.90	2539.00						
	Pipe volume	Cum			0.785	18.10	0.650	0.650	6.00	10.71
	Murum bedding	Cum				18.10	1.300	0.200	4.71	
4	Thakharenagar to API Corner- 400 mm Dia		2539.00	2886.00						
	Pipe volume	Cum			0.785	347.00	0.550	0.550	82.40	165.68
	Murum bedding	Cum				347.00	1.200	0.20	83.28	
5	Ramnagar 400 mm Dia		0.00	21.20						
	Pipe volume	Cum			0.785	21.20	0.990	0.990	16.31	21.40
	Murum bedding	Cum				21.20	1.200	0.20	5.09	
Total										563.333



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :-
Page No. :- 039

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.

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

L Sewer Manhole

17th RA BILL MEASUREMENTS

SEWER "L"

Extra Item No. 2:- Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc, complete

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate up to Depth of 1.5 mtr For per 30 cm
300MM RCC CONNECTION AT API CORNER									
1		46.70	LA 54.4	596.120	595.520	0.600	-0.900	-0.900	-3.00

Item No. 21:- Providing and constructing on sewer BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
300MM RCC CONNECTION AT API CORNER									
1		8.10	LA 54.1	597.715	595.415	2.30	0.30	-0.10	-0.20
2		24.30	LA 54.2	597.565	595.465	2.10	0.10		
3		33.00	LA 54.3	596.990	595.490	1.50	-0.50		

Item No. 23:- Providing and constructing on sewer BBM manhole 1.5 m dia at bottom and 0.5 m dia at top and up to a depth of 2 to 5.0 M

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
400mm Dia. Mukundwadi Station									
1		974.90	LR9. 33	598.049	595.489	2.56	-2.44		
2		1008.60	LR9. 34	598.274	595.539	2.74	-2.26		
3		1049.80	LR9. 35	599.254	595.614	3.64	-1.36		
4		1081.00	LR9. 36	599.489	595.689	3.80	-1.20		
400mm Dia. Vishrantwadi									
5		20.00	LR9.32. 1	598.329	595.580	2.75	-2.25		
6		53.70	LR9.32. 2	598.839	595.640	3.20	-1.80		
7		79.90	LR9.32. 3	599.149	595.674	3.48	-1.52		
8		113.60	LR9.32. 4	598.819	595.734	3.08	-1.92		
9		152.30	LR9.32. 5	598.589	595.894	2.70	-2.30		
10		188.50	LR9.32. 6	598.869	596.065	2.80	-2.20		
11		232.20	LR9.32. 7	599.169	596.130	3.04	-1.96		
12		285.90	LR9.32. 8	599.849	596.270	3.58	-1.42		
13		332.10	LR9.32. 9	600.069	596.470	3.60	-1.40		
14		378.30	LR9.32. 10	600.639	596.670	3.97	-1.03		
15		452.00	LR9.32. 11	600.859	596.995	3.86	-1.14		



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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. :-

047

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

2

L Sewer Manhole

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
Thakarenagar to API Corner									
16		2539.00	LA 49	597.980	593.610	4.37	-0.63	-56.68	-113.36
17		2565.20	LA 50	597.525	594.285	3.24	-1.76		
18		2606.40	LA 51	597.655	594.510	3.14	-1.86		
19		2645.10	LA 52	598.015	594.615	3.40	-1.60		
20		2681.30	LA 53	598.140	595.055	3.09	-1.91		
21		2715.00	LA 54	598.765	595.175	3.59	-1.41		
22		2741.20	LA 55	599.655	595.255	4.40	-0.60		
23		2782.40	LA 56	598.665	595.365	3.30	-1.70		
24		2818.60	LA 57	599.065	595.465	3.60	-1.40		
25		2847.30	LA 58	599.750	595.850	3.90	-1.10		
26		2886.00	LA 59	600.045	596.250	3.79	-1.21		
27		2925.00	LA 60	600.750	596.750	4.00	-1.00		
28		2968.00	LA 61	600.160	596.860	3.30	-1.70		
29		3000.00	LA 62	601.510	597.710	3.80	-1.20		
30		3037.00	LA 63	600.910	597.810	3.10	-1.90		
31		3067.00	LA 64	600.710	597.910	2.80	-2.20		
32		3111.00	LA 65	600.895	597.995	2.90	-2.10		
33		3148.20	LA 66	600.795	598.095	2.70	-2.30		
400mm Dia. Ramnagar									
34		21.20	LM-21.1	586.875	584.770	2.11	-2.89		

Item No. 25:- Providing and constructing on sewer BBM manhole 2 m dia at bottom and 0.5 m dia at top and up to a depth of 5 to 9.0 M

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 9 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
Mukundwadi Station 400mm Dia..									
1		1137.50	LR9.37	601.530	595.839	5.80	-3.20	-6.40	-12.80
2		1186.80	LR9.38	601.615	595.920	5.80	-3.20		



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :- 04?
Page No. :-

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

Authority No. AMC/Ward R&C/HDYCSMT/2014/184 Date 01/07/2014

RA 121 Sewer Quantity Node Abstract

12th R A BILL MEASUREMENTS

SR NO	Description	MB/PG	ITEM 17		ITEM 21	ITEM 21.1	ITEM 23	ITEM 23.1	ITEM 25	ITEM 25.1	ITEM 30	Extra Item 2 0-1.5 m	Extra Item 2.a Rebate	EIRL 9.3 300mm	EIRL 9.4 300mm
			400mm	500mm											
1	For Pipe		1,317.500	17.500	3,000	(0.200)	34.00	(113.356)	2,000	(12.800)	8,942.22			42.500	42.50
2	For Manhole		251.700		3,000				2,000		844.245	1,000	(3,000)		
Total			251.700	1317.500	3,000	-0.200	34,000	-113.356	2,000	-12.800	9786.460	1,000	-3,000	42,500	42,500



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Total up to Date

10



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :-
Page No. :- **043**

1 of 6

L Sewer DWC connection, Measurement MB

12th RA BILL MEASUREMENTS DWC PIPE L- SEWER CONNECTION

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
RAMNAGAR NEAR MAMTA HOSPITAL											
	DWC - 315 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m-										
	0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m-										
	0.315+0.5+0.4+0.4=1.615m										
10/08/16	LM29 TO LM29.1										
	CH0.00	591.020	590.200	590.100			0.920	0.936			
	CH35.30	591.165	590.312	590.212			0.953				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			33.2	0.815	0.736	19.915	0.000	19.915	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			33.2	0.815	0.200	5.412	0.000	5.412	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			33.5	0.815	0.100	2.730	0.000	2.730	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.340	0.000	5.340	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia										
	(a) For Lift 0 to 1.5m	1			33.95			33.950	0.000	33.950	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							25.326			
	Deduction of 315mm dia pipe										
	pipe area	1.00			0.785	33.50	0.315	0.315	2.61		
	soling								0.00		
	PCC								0.00		
	Murrum bedding								2.73		
									5.34		
	Net Qty = A - B							19.99	0.00	19.99	
12/08/16	LM29.1 TO LM29.2										
	CH35.30	591.165	590.312	590.212			0.953	1.642			
	CH43.30	592.610	590.380	590.280			2.330				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.7	1.215	1.500	10.388	19.915	30.303	
	(b) For Lift 1.5m to 3.0m	1			5.7	0.815	0.142	0.660	0.000	0.660	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			6.3	0.815	0.100	0.513	2.730	3.244	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 045
Page No. :-

3 of 6

L Sewer DWC connection, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH14.20	591.815	590.910	590.810			1.005				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.4	0.750	1.003	9.290	66.753	76.043	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.7	0.750	0.100	0.949	4.898	5.847	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.569	9.579	11.149	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			13.15			13.150	0.000	13.150	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.290			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	12.65	0.250	0.250	0.62			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.95			
								1.57			
								7.72	71.64	79.36	
12/08/16	RMU 2										
	CH14.20	591.815	590.910	590.810			1.005				
	CH29.50	591.870	590.970	590.870			1.000	1.003			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.3	0.750	1.003	10.005	76.043	86.048	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.9	0.750	0.100	1.043	5.847	6.889	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.724	11.149	12.873	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			14.40			14.400	13.150	27.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.005			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	13.90	0.250	0.250	0.68			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.04			
								1.72			
								8.28	79.36	87.64	
12/08/16	RMU 3										
	CH29.50										
	CH46.50	591.870	590.970	590.870			1.000				
		591.890	591.040	590.940			0.950	0.975			





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- **C46**
Page No. :-

4 of 6

L Sewer DWC connection, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.0	0.750	0.975	10.969		86.048	97.017
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.6	0.750	0.100	1.170		6.889	8.059
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.935		12.873	14.809
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			16.10			16.100		27.550	43.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.969			
	Deduction of 250mm dia pipe pipe area	1.00		0.785	15.60	0.250	0.250	0.77			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.17			
								1.94			
								9.03		87.64	96.67
12/08/16	RMU 4										
	CH46.50	591.890	591.040	590.940				0.950			
	CH50.00	591.860	591.060	590.960				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			1.5	0.750	0.925	1.041		97.017	98.058
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.1	0.750	0.100	0.158		8.059	8.217
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.261		14.809	15.069
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			2.60			2.600		43.650	46.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.041			
	Deduction of 250mm dia pipe pipe area	1.00		0.785	2.10	0.250	0.250	0.10			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.16			
								0.26			
								0.78		96.67	97.45
	DWC - 200 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.5=0.700m										



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