



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. :- 186
Page No. :-

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

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

RA 12.1 Sewer 400mm mukundwadi station

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10th R A 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	EXL							
L-Sewer-400mm Dia. Mukundwadi Station											
	Total Length of Line- 10+32.5+32.5+40+30+55+47.5+55=302.5m										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	From Bottom Lift 4.50-6.0m- 0.4+0.15+0.15+0.5+0.4+0.4+0.4 = 2.4m										
	LR9.31	Gap of 930 mtr. From Rajnagar Sewer Manhole No. LR.9									
	CH930.00	597.810	595.399	595.199			2.611	2.603			
	CH941.20	597.834	595.439	595.239			2.595				
	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			8.00	1.600	1.500	19.200	0.000	19.200	
	(b) For Lift 1.5m to 3.0m	1			8.00	1.200	1.103	10.589	0.000	10.589	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.00	1.200	0.200	1.920	0.000	1.920	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.00			10.000	0.000	10.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							29.789			
	Deduction										
	pipe area	1.00		0.785	8.00	0.550	0.550	1.90			
	Murum bedding							1.92			
	Total = B							3.82			
								Net Qty = A - B			
								25.97	0.000	25.97	
	LR9.32										
	CH941.20	597.834	595.439	595.239			2.595	2.678			
	CH974.90	598.049	595.489	595.289			2.760				
	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			30.50	1.600	1.500	73.200	19.200	92.400	
	(b) For Lift 1.5m to 3.0m	1			30.50	1.200	1.178	43.115	10.589	53.704	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.50	1.200	0.200	7.320	1.920	9.240	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			30.50		1.500	91.500	0.000	91.500	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500	10.000	42.500	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 187

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 Vencture)

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

RA 1 Sewer 400mm mukundwadi station

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=						116.315				
	Deduction										
	pipe area	1.00		0.785	30.50	0.550	0.550	7.24			
	Murum bedding							7.32			
	Total = B							14.56			
									25.969	127.72	
	Net Qty = A - B							101.75			
	LR9.33										
	CH974.90	598.049	595.489	595.289			2.760	2.848			
	CH1008.60	598.274	595.539	595.339			2.935				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.50	1.600	1.500	73.200	92.400	165.600	
	(b) For Lift 1.5m to 3.0m	1			30.50	1.200	1.348	49.337	53.704	103.040	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.50	1.200	0.200	7.320	9.240	16.560	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			30.50		1.500	91.500	91.500	183.000	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500	42.500	75.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							122.537			
	Deduction										
	pipe area	1.00		0.785	30.50	0.550	0.550	7.24			
	Murum bedding							7.32			
	Total = B							14.56			
									127.721	235.70	
	Net Qty = A - B							107.97			
	LR9.34										
	CH1008.60	598.274	595.539	595.339			2.935	3.388			
	CH1049.80	599.254	595.614	595.414			3.840				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.00	2.000	1.500	114.000	165.600	279.600	
	(b) For Lift 1.5m to 3.0m	1			38.00	1.600	1.500	91.200	103.040	194.240	
	(c) For Lift 3.0m to 4.5m	1			38.00	1.200	0.388	17.693	0.000	17.693	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.00	1.200	0.200	9.120	16.560	25.680	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			38.00		1.500	114.000	183.000	297.000	
	(b) For Lift 1.5m to 3.0m	2			38.00		1.500	114.000	0.000	114.000	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.00			40.000	75.000	115.000	



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(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. **189**

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

RA 12 L Sewer 400mm mukundwadi station

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=						504.889				
	Deduction										
	pipe area	1.00		0.785	52.95	0.550	0.550	12.57			
	Murum bedding							12.71			
	Total = B							25.28			
								479.61	609.188	1088.79	
	Net Qty = A - B										
	LR9. 37										
	CH1137.50	601.530	595.839	595.639			5.891	5.893			
	CH1186.80	601.615	595.920	595.720			5.895				
	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			45.40	2.400	1.500	163.440	554.220	717.660	
	(b) For Lift 1.5m to 3.0m	1			45.40	2.000	1.500	136.200	420.290	556.490	
	(c) For Lift 3.0m to 4.5m	1			45.40	1.600	1.500	108.960	175.685	284.645	
	(d) For Lift 4.5m to 6.0m	1			45.40	1.200	1.393	75.891	28.339	104.229	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			45.40	1.200	0.200	10.896	45.108	56.004	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			45.40		1.500	136.200	539.850	676.050	
	(b) For Lift 1.5m to 3.0m	2			45.40		1.500	136.200	356.850	493.050	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			47.50			47.500	200.300	247.800	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							484.491			
	Deduction										
	pipe area	1.00		0.785	45.40	0.550	0.550	10.78			
	Murum bedding							10.90			
	Total = B							21.68			
								462.81	1088.795	1551.61	
	Net Qty = A - B										
	LR9. 38										
	CH1186.80	601.615	596.420	596.220			5.395	5.323			
	CH1230.80	601.576	596.526	596.326			5.250				
	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			40.45	2.400	1.500	145.620	717.660	863.280	
	(b) For Lift 1.5m to 3.0m	1			40.45	2.000	1.500	121.350	556.490	677.840	
	(c) For Lift 3.0m to 4.5m	1			40.45	1.600	1.500	97.080	284.645	381.725	
	(d) For Lift 4.5m to 6.0m	1			40.45	1.200	0.823	39.948	104.229	144.178	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.45	1.200	0.200	9.708	56.004	65.712	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			40.45		1.500	121.350	676.050	797.400	
	(b) For Lift 1.5m to 3.0m	2			40.45		1.500	121.350	493.050	614.400	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			42.20			42.200	247.800	290.000	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :-

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

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

RA 12L Sewer 400mm mukundwadi station

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=						320.565				
	Deduction										
	pipe area	1.00		0.785	35.50	0.550	0.550	8.43			
	Murum bedding							8.52			
	Total = B						16.95				
		Net Qty = A - B						303.62	2514.170	2817.79	
	LR9. 41										
	CH1338.20	601.787	598.087	597.887			3.900				
	CH1371.90	602.568	598.168	597.968			4.600	4.250			
	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			30.50	2.000	1.500	91.500	1226.880	1318.380	
	(b) For Lift 1.5m to 3.0m	1			30.50	1.600	1.500	73.200	980.840	1054.040	
	(c) For Lift 3.0m to 4.5m	1			30.50	1.200	1.250	45.750	624.125	669.875	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.50	1.200	0.200	7.320	89.952	97.272	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			30.50		1.500	91.500	1100.400	1191.900	
	(b) For Lift 1.5m to 3.0m	2			30.50		1.500	91.500	917.400	1008.900	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500	395.000	427.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							210.450			
	Deduction										
	pipe area	1.00		0.785	30.50	0.550	0.550	7.24			
	Murum bedding							7.32			
	Total = B							14.56			
		Net Qty = A - B						195.89	2817.785	3013.67	
	LR9. 42										
	CH1371.90	602.568	598.868	598.668			3.900				
	CH1413.10	602.696	598.956	598.756			3.940	3.920			
	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			38.00	2.000	1.500	114.000	1318.380	1432.380	
	(b) For Lift 1.5m to 3.0m	1			38.00	1.600	1.500	91.200	1054.040	1145.240	
	(c) For Lift 3.0m to 4.5m	1			38.00	1.200	0.920	41.952	669.875	711.827	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.00	1.200	0.200	9.120	97.272	106.392	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			38.00		1.500	114.000	1191.900	1305.900	
	(b) For Lift 1.5m to 3.0m	2			38.00		1.500	114.000	1008.900	1122.900	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.00			40.000	427.500	467.500	





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 192

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 Veneture)

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

RA 1 Sewer 400mm mukundwadi station

Page 7 of 7

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A =						247.152				
	Deduction										
	pipe area	1.00		0.785	38.00	0.550	0.550	9.02			
	Murum bedding							9.12			
	Total = B							18.14			
		Net Qty = A - B									
							229.01		3013.673	3242.68	
	LR9. 38 TO LR9. 38.1										
	CH1186.80	601.615	595.920	595.720			5.895	5.923			
	CH1243.60	601.735	595.984	595.784			5.951				
	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			52.90	2.400	1.500	190.440	1432.380	1622.820	
	(b) For Lift 1.5m to 3.0m	1			52.90	2.000	1.500	158.700	1145.240	1303.940	
	(c) For Lift 3.0m to 4.5m	1			52.90	1.600	1.500	126.960	711.827	838.787	
	(d) For Lift 4.5m to 6.0m	1			52.90	1.200	1.423	90.332	164.893	255.225	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			52.90	1.200	0.200	12.696	106.392	119.088	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			52.90		1.500	158.700	1305.900	1464.600	
	(b) For Lift 1.5m to 3.0m	2			52.90		1.500	158.700	1122.900	1281.600	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			55.00			55.000	467.500	522.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A =							566.432			
	Deduction										
	pipe area	1.00		0.785	52.90	0.550	0.550	12.56			
	Murum bedding							12.70			
	Total = B							25.26			
		Net Qty = A - B									
							541.17		3242.681	3783.86	



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Book No. :-

Page No. :- 193

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

RA 12, L Sewer 400mm vishrantwadi

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12th R A BILL MEASUREMENTS

Branch Sewer 'L' at Vishrantwadi

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
Branch of L-Sewer-400mm Dia. (Vishrantwadi)											
	Total Length of Line- 20+32.5+20+32.5+37.5+35+42.5+52.5 +45+45+87.5= 370 m										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	From Bottom Lift 4.50-6.0m- 0.4+0.15+0.15+0.5+0.4+0.4 + 0.4 = 2.4m										
	LR9.32						2.534	2.741			
	CH0.00	597.834	595.500	595.300							
	CH20.00	598.329	595.580	595.380			2.949				
	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			18.40	1.600	1.500	44.160	1622.820	1666.980	
	(b) For Lift 1.5m to 3.0m	1			18.40	1.200	1.241	27.401	1303.940	1331.342	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.40	1.200	0.200	4.416	119.088	123.504	
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000	522.500	542.500	
	Item No 30 :- Refilling the excavated trenches ...							71.561			
	Total Excavation= A=										
	Deduction										
	pipe area	1.00		0.785	18.40	0.550	0.550	4.37			
	Murum bedding							8.79			
	Total = B							62.78	3783.855	3846.63	
	LR9.32.1						2.949	3.174			
	CH20.00	598.329	595.580	595.380			3.399				
	CH53.70	598.839	595.640	595.440							
	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			30.50	2.000	1.500	91.500	1666.980	1758.480	
	(b) For Lift 1.5m to 3.0m	1			30.50	1.600	1.500	73.200	1331.342	1404.542	
	(c) For Lift 3.0m to 4.5m	1			30.50	1.200	0.174	6.368	838.787	845.155	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.50	1.200	0.200	7.320	123.504	130.824	



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 194
Page No. :-

RA 12.1 Sewer 400mm vishrantwadi

Page 2 of 6

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Up to Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for (a) For Lift 0 to 1.5m	2			30.50		1500	91.500		1464.600	1556.100
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500		542.500	575.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							171.068			
	Deduction										
	pipe area	1.00		0.785	30.50	0.550	0.550	7.24			
	Murum bedding							7.32			
	Total = B							14.56			
	LR9.32. 2							156.51		3846.631	4003.14
	CH53.70										
	CH79.90	598.839	595.640	595.440			3.399				
		599.149	595.674	595.474			3.675	3.537			
	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			23.00	2.000	1.500	69.000		1758.480	1827.480
	(b) For Lift 1.5m to 3.0m	1			23.00	1.600	1.500	55.200		1404.542	1459.742
	(c) For Lift 3.0m to 4.5m	1			23.00	1.200	0.537	14.821		845.155	859.976
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.00	1.200	0.200	5.520		130.824	136.344
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for (a) For Lift 0 to 1.5m	2			23.00		1.500	69.000		1556.100	1625.100
	(b) For Lift 1.5m to 3.0m	2			23.00		1.500	69.000		1281.600	1350.600
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000		575.000	600.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							139.021			
	Deduction										
	pipe area	1.00		0.785	23.00	0.550	0.550	5.46			
	Murum bedding							5.52			
	Total = B							10.98			
	LR9.32. 3							128.04		4003.137	4131.18
	CH79.90										
	CH113.60	599.149	595.674	595.474			3.675				
		598.819	595.734	595.534			3.285	3.480			
	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			30.50	2.000	1.500	91.500		1827.480	1918.980
	(b) For Lift 1.5m to 3.0m	1			30.50	1.600	1.500	73.200		1459.742	1532.942
	(c) For Lift 3.0m to 4.5m	1			30.50	1.200	0.480	17.568		859.976	877.544
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.50	1.200	0.200	7.320		136.344	143.664



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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**

RA 1#1 Sewer 400mm vishrantwadi

Page 3 of 6

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. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			30.50		1.500	91.500		1625.100	1716.600
	(b) For Lift 1.5m to 3.0m	2			30.50		1.500	91.500		1350.600	1442.100
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500		600.000	632.500
	Item No 30 :- Refilling the excavated trenches ...							182.268			
	Total Excavation = A =										
	Deduction							7.24			
	pipe area	1.00		0.785	30.50	0.550	0.550	7.24			
	Murum bedding							7.32			
	Total = B							14.56			
								167.71		4131.177	4298.88
	LR9.32. 4						3.285	3.090			
	CH113.60	598.819	595.734	595.534			2.895				
	CH152.30	598.589	595.894	595.694							
	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			35.50	1.600	1.500	85.200		1918.980	2004.180
	(b) For Lift 1.5m to 3.0m	1			35.50	1.200	1.500	63.900		1532.942	1596.842
	(c) For Lift 3.0m to 4.5m	1			35.50	1.200	0.090	3.834		877.544	881.378
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.50	1.200	0.200	8.520		143.664	152.184
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			35.50		1.500	106.500		1716.600	1823.100
	(b) For Lift 1.5m to 3.0m	2			35.50		1.500	106.500		1442.100	1548.600
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.50			37.500		632.500	670.000
	Item No 30 :- Refilling the excavated trenches ...							152.934			
	Total Excavation = A =										
	Deduction							8.43			
	pipe area	1.00		0.785	35.50	0.550	0.550	8.43			
	Murum bedding							8.52			
	Total = B							16.95			
								135.98		4298.882	4434.87
	LR9.32. 5						2.895	2.950			
	CH152.30	598.589	595.894	595.694			3.004				
	CH188.50	598.869	596.065	595.865							
	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			33.00	1.600	1.500	79.200		2004.180	2083.380
	(b) For Lift 1.5m to 3.0m	1			33.00	1.200	1.450	57.420		1596.842	1654.262
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			33.00	1.200	0.200	7.920		152.184	160.104



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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 Ah. 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. :- 196
Page No. :-

RA 12-L Sewer 400mm vishrantwadi

Page 4 of 6

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. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			33.00		1.500	99.000		1823.100	1922.100
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.00			35.000		670.000	705.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							136.620			
	Deduction										
	pipe area	1.00		0.785	33.00	0.550	0.550	7.84			
	Murum bedding							7.92			
	Total = B							15.76			
								Net Qty = A - B		4434.866	4555.73
	LR9.32. 6							120.86			
	CH188.50	598.869	596.065	595.865							
	CH232.20	599.169	596.130	595.930			3.004	3.122			
							3.239				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			40.50	2.000	1.500	121.500		2083.380	2204.880
	(b) For Lift 1.5m to 3.0m	1			40.50	1.600	1.500	97.200		1654.262	1751.462
	(c) For Lift 3.0m to 4.5m	1			40.50	1.200	0.122	5.929		881.378	887.308
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.50	1.200	0.200	9.720		160.104	169.824
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			40.50		1.500	121.500		1922.100	2043.600
	(b) For Lift 1.5m to 3.0m	2			40.50		1.500	121.500		1548.600	1670.100
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			42.50			42.500		705.000	747.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							224.629			
	Deduction										
	pipe area	1.00		0.785	40.50	0.550	0.550	9.62			
	Murum bedding							9.72			
	Total = B							19.34			
								Net Qty = A - B		4555.730	4761.02
	LR9.32. 7							205.29			
	CH232.20	599.169	596.130	595.930			3.239	3.509			
	CH285.90	599.849	596.270	596.070			3.779				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			50.50	2.000	1.500	151.500		2204.880	2356.380
	(b) For Lift 1.5m to 3.0m	1			50.50	1.600	1.500	121.200		1751.462	1872.662
	(c) For Lift 3.0m to 4.5m	1			50.50	1.200	0.509	30.845		887.308	918.153
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			50.50	1.200	0.200	12.120		169.824	181.944



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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. :- 198
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

RA 12L Sewer 400mm vishrantwadi

Page 6 of 6

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			43.00		1.500	129.000		2324.100	2453.100
	(b) For Lift 1.5m to 3.0m	2			43.00		1.500	129.000		1950.600	2079.600
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			45.00			45.000		845.000	890.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							280.549			
	Deduction										
	pipe area	1.00		0.785	43.00	0.550	0.550	10.21			
	Murum bedding							10.32			
	Total = B							20.53			
	Net Qty = A - B							260.02		5292.837	5552.86
	LR9.32. 10										
	CH378.30	600.639	596.794	596.594			4.045				
	CH452.00	600.859	596.995	596.795			4.064	4.055			
	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			70.50	2.000	1.500	211.500		2614.380	2825.880
	(b) For Lift 1.5m to 3.0m	1			70.50	1.600	1.500	169.200		2079.062	2248.262
	(c) For Lift 3.0m to 4.5m	1			70.50	1.200	1.055	89.253		1007.215	1096.468
	(d) For Lift 4.5m to 6.0m	1			70.50	1.200	0.000	0.000		255.225	255.225
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			70.50	1.200	0.200	16.920		202.584	219.504
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for										
	(a) For Lift 0 to 1.5m	2			70.50		1.500	211.500		2453.100	2664.600
	(b) For Lift 1.5m to 3.0m	2			70.50		1.500	211.500		2079.600	2291.100
	Item No 17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			72.50			72.500		890.000	962.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							469.953			
	Deduction										
	pipe area	1.00		0.785	70.50	0.550	0.550	16.74			
	Murum bedding							16.92			
	Total = B							33.66			
	Net Qty = A - B							436.29		5552.855	5989.15



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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. :- 001
Page No. :-

L Sewer Thakarenagar to API Corner.

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	400mm Dia. Width of Trench - For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	From Bottom Lift 4.50-6.0m- 0.4+0.15+0.15+0.5+0.4+0.4+0.4 = 2.4m										
	LA 49										
	CH2539.00	597.980	594.175	593.975			4.01	3.723			
	CH2565.20	597.525	594.285	594.085			3.44				
	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			23.00	2.000	1.150	52.900	2858.138	2911.038	
	(b) For Lift 1.5m to 3.0m	1			23.00	1.600	0.800	29.440	2280.437	2309.877	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.00	2.000	0.200	9.200	5.610	14.810	
	(b) For Lift 1.5m to 3.0m	1			23.00	1.600	0.700	25.760	31.746	57.506	
	(c) For Lift 3.0m to 4.5m	1			23.00	1.200	0.723	19.955	0.000	19.955	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.00	2.000	0.150	6.900	4.207	11.107	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.00	1.200	0.200	5.520	223.794	229.314	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000	962.500	987.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							144.155			
	Deduction										
	pipe area	1		0.785	23.00	0.550	0.550	5.46			
	Murum bedding							5.52			
	Total = B							10.98			
					Net Qty = A - B			133.17	6085.381	6218.554	
	LA 50										
	CH2565.20	597.525	594.370	594.170			3.36	3.350			
	CH2606.40	597.655	594.510	594.310			3.35				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			38.00	2.000	1.150	87.400	2911.038	2998.438	
	(b) For Lift 1.5m to 3.0m	1			38.00	1.600	0.550	33.440	2309.877	2343.317	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.00	2.000	0.200	15.200	14.810	30.010	
	(b) For Lift 1.5m to 3.0m	1			38.00	1.600	0.950	57.760	57.506	115.266	
	(c) For Lift 3.0m to 4.5m	1			38.00	1.200	0.350	15.960	19.955	35.915	



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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. :- 002
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 Thakarenagar to API Corner.

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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. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			38.00	2.000	0.150	11.400		11.107	22.507	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.00	1.200	0.200	9.120		229.314	238.434	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.00			40.000		987.500	1027.500	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							221.160				
	Deduction											
	pipe area	1		0.785	38.00	0.550	0.550	9.02				
	Murrum bedding							9.12				
	Total = B							18.14				
	LA 51							Net Qty = A - B		203.02	6218.554	6421.570
	CH2606.40	597.655	594.510	594.310				3.35				
	CH2645.10	598.015	594.615	594.415				3.60	3.473			
	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			35.50	2.000	1.150	81.650		2998.438	3080.088	
	(b) For Lift 1.5m to 3.0m	1			35.50	1.600	0.600	34.080		2343.317	2377.397	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			35.50	2.000	0.200	14.200		30.010	44.210	
	(b) For Lift 1.5m to 3.0m	1			35.50	1.600	0.900	51.120		115.266	166.386	
	(c) For Lift 3.0m to 4.5m	1			35.50	1.200	0.473	20.150		35.915	56.065	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			35.50	2.000	0.150	10.650		22.507	33.157	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.50	1.200	0.200	8.520		238.434	246.954	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.50			37.500		1027.500	1065.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							211.850				
	Deduction											
	pipe area	1		0.785	35.50	0.550	0.550	8.43				
	Murrum bedding							8.52				
	Total = B							16.95				
	Net Qty = A - B							194.90		6421.570	6616.470	



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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/PI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-

Page No. :-

003

L Sewer Thakarenagar to API Corner.

Page 4 of 12

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
LA 52											
	CH2645.10	598.015	594.940	594.740			3.27				
	CH2681.30	598.140	595.055	594.855			3.29	3.280			
	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			33.00	2.000	0.950	62.700		3080.088	3142.788
	(b) For Lift 1.5m to 3.0m	1			33.00	1.600	0.450	23.760		2377.397	2401.157
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			33.00	2.000	0.400	26.400		44.210	70.610
	(b) For Lift 1.5m to 3.0m	1			33.00	1.600	1.050	55.440		166.386	221.826
	(c) For Lift 3.0m to 4.5m	1			33.00	1.200	0.280	11.088		56.065	67.153
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			33.00	2.000	0.150	9.900		33.157	43.057
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			33.00	1.200	0.200	7.920		246.954	254.874
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.00			35.000		1065.000	1100.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							189.288			
	Deduction										
	pipe area	1		0.785	33.00	0.550	0.550	7.84			
	Murrum bedding							7.92			
	Total = B							15.76			
								173.53		6616.470	6790.002
	Net Qty = A - B										
LA 53											
	CH2681.30	598.140	595.055	594.855			3.29				
	CH2715.00	598.765	595.175	594.975			3.79	3.538			
	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			30.50	2.000	1.000	61.000		3142.788	3203.788
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.50	2.000	0.350	21.350		70.610	91.960
	(b) For Lift 1.5m to 3.0m	1			30.50	1.600	1.500	73.200		221.826	295.026
	(c) For Lift 3.0m to 4.5m	1			30.50	1.200	0.538	19.691		67.153	86.843
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.50	2.000	0.150	9.150		43.057	52.207
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.50	1.200	0.200	7.320		254.874	262.194
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500		1100.000	1132.500



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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) City.

Book No. :-

004

Page No. :-

L Sewer Thakarenagar to API Corner.

Page 5 of 12

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							184.391			
	Deduction										
	pipe area	1		0.785	30.50	0.550	0.550	7.24			
	Murum bedding							7.32			
	Total = B							14.56			
		Net Qty = A - B						169.83	6790.002	6959.830	
	LA 54										
	CH2715.00	598.765	595.175	594.975			3.79	4.195			
	CH2741.20	599.655	595.255	595.055			4.60				
	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			23.00	2.000	1.000	46.000	3203.788	3249.788	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.00	2.000	0.350	16.100	91.960	108.060	
	(b) For Lift 1.5m to 3.0m	1			23.00	1.600	1.500	55.200	295.026	350.226	
	(c) For Lift 3.0m to 4.5m	1			23.00	1.200	1.195	32.982	86.843	119.825	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.00	2.000	0.150	6.900	52.207	59.107	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.00	1.200	0.200	5.520	262.194	267.714	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000	1132.500	1157.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							157.182			
	Deduction										
	pipe area	1		0.785	23.00	0.550	0.550	5.46			
	Murum bedding							5.52			
	Total = B							10.98			
		Net Qty = A - B						146.20	6959.830	7106.030	
	LA 55										
	CH2741.20	599.655	595.255	595.055			4.60	4.050			
	CH2782.40	598.665	595.365	595.165			3.50				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			38.00	2.000	1.000	76.000	3249.788	3325.788	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.00	2.000	0.350	26.600	108.060	134.660	
	(b) For Lift 1.5m to 3.0m	1			38.00	1.600	1.500	91.200	350.226	441.426	
	(c) For Lift 3.0m to 4.5m	1			38.00	1.200	1.000	45.600	119.825	165.425	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			38.00	2.000	0.150	11.400	59.107	70.507	
	(c) For Lift 3.0m to 4.5m	1			38.00	1.200	0.050	2.280	0.000	2.280	



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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/PI) pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 005
Page No. :-

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

L Sewer Thakarenagar to API Corner.

Page 6 of 12

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.00	1.200	0.200	9.120		267.714	276.834
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.00			40.000		1157.500	1197.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							253.080			
	Deduction										
	pipe area	1		0.785	38.00	0.550	0.550	9.02			
	Murrum bedding							9.12			
	Total = B							18.14			
		Net Qty = A - B							234.94	7106.030	7340.967
	LA 56										
	CH2782.40	598.665	595.365	595.165			3.50	3.650			
	CH2818.60	599.065	595.465	595.265			3.80				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			33.00	2.000	0.950	62.700		3325.788	3388.488
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			33.00	2.000	0.400	26.400		134.660	161.060
	(b) For Lift 1.5m to 3.0m	1			33.00	1.600	1.500	79.200		441.426	520.626
	(c) For Lift 3.0m to 4.5m	1			33.00	1.200	0.650	25.740		165.425	191.169
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			33.00	2.000	0.150	9.900		70.507	80.407
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			33.00	1.200	0.200	7.920		276.834	284.754
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.00			35.000		1197.500	1232.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							203.940			
	Deduction										
	pipe area	1		0.785	33.00	0.550	0.550	7.84			
	Murrum bedding							7.92			
	Total = B							15.76			
		Net Qty = A - B							188.18	7340.967	7529.151
	LA 57										
	CH2818.60	599.065	595.765	595.565			3.50	3.800			
	CH2847.30	599.750	595.850	595.650			4.10				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.50	2.000	0.950	48.450		3388.488	3436.938



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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. :- 006
Page No. :-

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

L Sewer Thakarenagar to API Corner.

Page 7 of 12

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			25.50	2.000	0.400	20.400		161.060	181.460
	(b) For Lift 1.5m to 3.0m	1			25.50	1.600	1.500	61.200		520.626	581.826
	(c) For Lift 3.0m to 4.5m	1			25.50	1.200	0.800	24.480		191.165	215.645
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			25.50	2.000	0.150	7.650		80.407	88.057
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.50	1.200	0.200	6.120		284.754	290.874
	Item No.17 (a):- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.50			27.500		1232.500	1260.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							162.180			
	Deduction										
	pipe area	1		0.785	25.50	0.550	0.550	6.06			
	Murrum bedding							6.12			
	Total = B							12.18			
								Net Qty = A - B		7529.151	7679.155
	LA 58										
	CH2847.30	599.750	596.150	595.950			3.80	3.898			
	CH2886.00	600.045	596.250	596.050			4.00				
	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			35.50	2.000	1.000	71.000		3436.938	3507.938
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.50	2.000	0.350	24.850		181.460	206.310
	(b) For Lift 1.5m to 3.0m	1			35.50	1.600	1.500	85.200		581.826	667.026
	(c) For Lift 3.0m to 4.5m	1			35.50	1.200	0.898	38.255		215.645	253.900
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			35.50	2.000	0.150	10.650		88.057	98.707
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.50	1.200	0.200	8.520		290.874	299.394
	Item No.17 (a):- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.50			37.500		1260.000	1297.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							229.955			
	Deduction										
	pipe area	1		0.785	35.50	0.550	0.550	8.43			
	Murrum bedding							8.52			
	Total = B							16.95			
								Net Qty = A - B		7679.155	7892.160



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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. :- 007
Page No. :-

L Sewer Thakarenagar to API Corner.

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	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										
	LA 59										
	CH2886.00	600.045	596.650	596.550			3.495	3.798			
	CH2925.00	600.750	596.750	596.650			4.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.8	1.615	1.000	57.817		3507.938	3565.755
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.8	1.615	0.350	20.236		206.310	226.546
	(b) For Lift 1.5m to 3.0m	1			35.8	1.215	1.500	65.246		667.026	732.271
	(c) For Lift 3.0m to 4.5m	1			35.8	0.815	0.798	23.283		253.900	277.183
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			35.8	1.615	0.150	8.673		98.707	107.380
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			36.8	0.815	0.100	2.999		299.394	302.393
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							5.866		0.000	5.866
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			37.50			37.500		0.000	37.500
	Item No. 30 :- Refilling the excavated trenches ...							175.254			
	Total Excavation=										
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	36.80	0.315	0.315	2.87			
	Murrum bedding							3.00			
								5.87			
								169.39		7892.16	8061.55
	Net Qty = A - B										
	LA 60										
	CH2925.00	600.750	596.750	596.650			4.100	3.750			
	CH2968.00	600.160	596.860	596.760			3.400				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			39.8	1.615	1.000	64.277		3565.755	3630.032
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			39.8	1.615	0.350	22.497		226.546	249.043
	(b) For Lift 1.5m to 3.0m	1			39.8	1.215	1.500	72.536		732.271	804.807
	(c) For Lift 3.0m to 4.5m	1			39.8	0.815	0.750	24.328		277.183	301.511



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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. :- 008

Page No. :-

L Sewer Thakarenagar to API Corner.

Page 9 of 12

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. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			39.8	1.615	0.150	9.642		107.380	117.022
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.8	0.815	0.100	3.325		302.393	305.718
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							6.503		5.866	12.369
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			41.50			41.500		37.500	79.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							193.279			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	40.80	0.315	0.315	3.18			
	Murum bedding							3.33			
								6.50			
								Net Qty = A - B		8061.55	8248.32
	LA 61							186.78			
	CH2968.00	600.160	597.600	597.500			2.660	3.280			
	CH3000.00	601.510	597.710	597.610			3.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			28.8	1.615	1.000	46.512		3630.032	3676.544
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			28.8	1.615	0.350	16.279		249.043	265.322
	(b) For Lift 1.5m to 3.0m	1			28.8	1.215	1.500	52.488		804.807	857.295
	(c) For Lift 3.0m to 4.5m	1			28.8	0.815	0.280	6.572		301.511	308.083
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			28.8	1.615	0.150	6.977		117.022	123.998
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.8	0.815	0.100	2.429		305.718	308.147
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							4.750		12.369	17.119
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			30.50			30.500		79.000	109.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							128.828			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	29.80	0.315	0.315	2.32			
	Murum bedding							2.43			
								4.75			
								Net Qty = A - B		8248.32	8372.40



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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. :-

009

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

L Sewer Thakarenagar to API Corner.

Page 10 of 12

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EXL							
LA 62											
CH3000.00		601.510	597.710	597.610		3.900					
CH3037.00		600.910	597.810	597.710		3.200	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			33.8	1.615	1.000	54.587	3676.544	3731.131	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			33.8	1.615	0.350	19.105	265.322	284.428	
	(b) For Lift 1.5m to 3.0m	1			33.8	1.215	1.500	61.601	857.295	918.895	
	(c) For Lift 3.0m to 4.5m	1			33.8	0.815	0.550	15.151	308.083	323.234	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			33.8	1.615	0.150	8.188	123.998	132.186	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			34.8	0.815	0.100	2.836	308.147	310.983	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							5.547	17.119	22.665	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			35.50			35.500	109.500	145.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							158.632			
	Deduction of 315mm dia pipe pipe area	1.00		0.785	34.80	0.315	0.315	2.71			
	Murrum bedding							2.84			
								5.55			
								Net Qty = A - B	153.09	8372.40	8525.49
LA 63											
CH3037.00		600.910	597.810	597.710		3.200					
CH3067.00		600.710	597.910	597.810		2.900	3.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.8	1.215	1.000	32.562	3731.131	3763.693	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.8	1.215	0.350	11.397	284.428	295.824	
	(b) For Lift 1.5m to 3.0m	1			26.8	0.815	1.500	32.763	918.895	951.658	
	(c) For Lift 3.0m to 4.5m	1			26.8	0.815	0.050	1.092	323.234	324.326	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			26.8	1.215	0.150	4.884	132.186	137.071	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			27.8	0.815	0.100	2.266	310.983	313.249	



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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. :- 010
Page No. :-

L Sewer Thakarenagar to API Corner.

Page 11 of 12

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 loading & unloading excavated							4.431		22.665	27.097
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			28.50			28.500		145.000	173.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							82.698			
	Deduction of 315mm dia pipe										
	pipe area	1.00									
	Murum bedding			0.785	27.80	0.315	0.315	2.17			
								2.27			
								4.43			
	LA 64							78.27		8525.49	8603.75
	CH3067.00	600.710	597.910	597.810							
	CH3111.00	600.895	597.995	597.895			2.900	2.950			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			40.8	1.215	1.000	49.572		3763.693	3813.265
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			40.8	1.215	0.350	17.350		295.824	313.174
	(b) For Lift 1.5m to 3.0m	1			40.8	0.815	1.450	48.215		951.658	999.874
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			40.8	1.215	0.150	7.436		137.071	144.507
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			41.8	0.815	0.100	3.407		313.249	316.656
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							6.663		27.097	33.759
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			42.50			42.500		173.500	216.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							122.573			
	Deduction of 315mm dia pipe										
	pipe area	1.00									
	Murum bedding			0.785	41.80	0.315	0.315	3.26			
								3.41			
								6.66			
	LA 65							115.91		8603.75	8719.67
	CH3111.00	600.895	597.995	597.895							
	CH3148.20	600.795	598.095	597.995			3.000	2.900			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			34.0	1.215	1.000	41.310		3813.265	3854.575
	(b) For Lift 1.5m to 3.0m	1			34.0	0.815	0.000	0.000		2401.157	2401.157
	(c) For Lift 3.0m to 4.5m	1			34.0	0.815	0.000	0.000		1096.468	1096.468
	(d) For Lift 4.5m to 6.0m	1			34.0	0.815	0.000	0.000		255.225	255.225



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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. :-

011

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

Authority No. AMCA/Work B&C/HDSSMT/2014/184 Date 01.07.2014

L Sewer Thakarenagar to API Corner.

Page 12 of 12

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EXL							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			34.0	1.215	0.350	14.458		313.174	327.633
	(b) For Lift 1.5m to 3.0m	1			34.0	0.815	1.400	38.794		999.874	1038.668
	(c) For Lift 3.0m to 4.5m	1			34.0	0.815	0.000	0.000		324.326	324.326
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			34.0	1.215	0.150	6.196		144.507	150.703
	(c) For Lift 3.0m to 4.5m	1			34.0	0.815	0.000	0.000		2.280	2.280
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.0	0.815	0.100	2.852		316.656	319.508
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							5.579		33.759	39.338
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			35.70			35.700		216.000	251.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							100.759			
	Deduction of 315mm dia pipe pipe area	1.00		0.785	35.00	0.315	0.315	2.73			
	Murrum bedding							2.85			
								5.58			
								95.18		8719.67	8814.85



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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. :- **012**
Page No. :-

L Sewer 300mm RCC connection API Corner

Page 1 of 3

11th RA BILL MEASUREMENTS

Sewer L - API CORNER- Connection

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	RCC 300mm Dia										
	Width of Trench -										
	For Bottom Lift 0.00-1.50m- 0.3+0.08+0.08+0.5=0.96m										
	From Bottom Lift 1.50m-3.00m- 0.3+0.08+0.08+0.5+0.4=1.36m										
	From Bottom Lift 3.00m-4.50m- 0.3+0.08+0.08+0.5+0.4+0.4 = 1.76m										
	LA 54 T O LA 54.1										
	CH0.00	598.765	595.375	595.175			3.59	3.045			
	CH8.10	597.715	595.415	595.215			2.50				
	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			6.10	1.360	1.000	8.296	3854.575	3862.871	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.10	1.360	0.350	2.904	327.633	330.537	
	(b) For Lift 1.5m to 3.0m	1			6.10	0.960	1.500	8.784	1038.668	1047.452	
	(c) For Lift 3.0m to 4.5m	1			6.10	0.960	0.045	0.264	324.326	324.590	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.10	1.360	0.150	1.244	150.703	151.947	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.10	0.960	0.200	1.171	319.508	320.679	
	Item No. 11 Transportation of earth Transportation charges including loading & unloading excavated							1.863	39.338	41.201	
	Extra Item No.9.4 :- Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			7.5			7.500	0.000	7.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							21.492			
	Deduction										
	pipe area	1		0.785	6.10	0.380	0.380	0.691			
	Murum bedding							1.171			
	Total = B							1.863			
								Net Qty = A - B	19.629	8814.846	
	LA 54.1 T O LA 54.2									8834.475	
	CH8.10	597.715	595.415	595.215			2.50	2.400			
	CH24.30	597.565	595.465	595.265			2.30				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			13.90	1.360	1.000	18.904	3862.871	3881.775	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.90	1.360	0.350	6.616	330.537	337.153	
	(b) For Lift 1.5m to 3.0m	1			13.90	0.960	0.900	12.010	1047.452	1059.462	



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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. :- **013**

M. K. Infra Infrastructure Pvt Ltd & GECP (Joint Venture)

L Sewer 300mm RCC connection API Corner

Page 2 of 3

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			13.90	1.360	0.150	2.836			
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.90	0.960	0.200	2.669		151.947	154.783
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							4.244		320.679	323.348
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			15.0			15.000		41.201	45.445
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							40.366			
	Deduction										
	pipe area	1		0.785	13.90	0.380	0.380	1.576			
	Murum bedding							2.669			
	Total = B							4.244			
								Net Qty = A - B			
	LA 54.2 TO LA 54.3							36.121		8834.475	8870.596
	CH24.30	597.565	595.465	595.265			2.30				
	CH33.00	596.990	595.490	595.290			1.70	2.000			
	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			6.40	1.360	1.000	8.704			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									3881.775	3890.479
	(a) For Lift 0 to 1.5m	1			6.40	1.360	0.350	3.046			
	(b) For Lift 1.5m to 3.0m	1			6.40	0.960	0.500	3.072		337.153	340.199
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									1059.462	1062.534
	(a) For Lift 0 to 1.5m	1			6.40	1.360	0.150	1.306			
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.40	0.960	0.200	1.229		154.783	156.089
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.954		323.348	324.577
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			7.5			7.500		45.445	47.399
										22.500	30.000



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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. :- 014
Page No. :-

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

Authority No. AMC/Ward B&C/UIDSSM1/2014/184 Date 01.07.2014

L Sewer 300mm RCC connection API Corner

Page 3 of 3

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										
	Deduction						16.128				
	pipe area	1		0.785	6.40	0.380	0.380	0.725			
	Murum bedding							1.229			
	Total = B							1.954			
	LA 54.3 T O LA 54.4							Net Qty = A - B			
								14.174	8870.596	8884.770	
	CH33.00	596.990	595.490	595.290							
	CH46.70	596.120	595.520	595.320			1.70	1.250			
							0.80				
	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			11.55	0.960	0.750	8.316	3890.479	3898.795	
	(b) For Lift 1.5m to 3.0m	1			11.55	0.960	0.000	0.000	2401.157	2401.157	
	(c) For Lift 3.0m to 4.5m	1			11.55	0.960	0.000	0.000	1096.468	1096.468	
	(d) For Lift 4.5m to 6.0m	1			11.55	0.960	0.000	0.000	255.225	255.225	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.55	0.960	0.350	3.881	340.199	344.080	
	(b) For Lift 1.5m to 3.0m	1			11.55	0.960	0.000	0.000	1062.534	1062.534	
	(c) For Lift 3.0m to 4.5m	1			11.55	0.960	0.000	0.000	324.590	324.590	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.55	0.960	0.150	1.663	156.089	157.752	
	(c) For Lift 3.0m to 4.5m	1			11.55	0.960	0.000	0.000	2.280	2.280	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.55	0.960	0.200	2.218	324.577	326.795	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.527	47.399	50.926	
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			12.5			12.500	30.000	42.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							13.860			
	Deduction										
	pipe area	1		0.785	11.55	0.380	0.380	1.309			
	Murum bedding							2.218			
	Total = B							3.527			
	Net Qty = A - B							10.333	8884.770	8895.103	





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), Bariwadi, 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. :- 015

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 1

L Sewer 400mm Mahadha

12th RA BILL MEASUREMENTS

Branch Sewer 'L' at Ramnagar

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	400mm Dia.										
	Width of Trench - For										
	Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	From Bottom Lift 4.50-6.0m- 0.4+0.15+0.15+0.5+0.4+0.4+0.4=2.4m										
	LM-21 TO LM 21.1						1.700	2.003			
	CH0.00	586.190	584.690	584.490			2.305				
	CH21.20	586.875	584.770	584.570							
	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			18.65	1.600	1.500	44.760	3898.795	3943.558	
	(b) For Lift 1.5m to 3.0m	1			18.65	1.200	0.503	11.257	2401.157	2412.414	
	(c) For Lift 3.0m to 4.5m	1			18.65	1.200	0.000	0.000	1096.468	1096.468	
	(d) For Lift 4.5m to 6.0m	1			18.65	1.200	0.000	0.000	255.225	255.225	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.65	1.600	0.000	0.000	344.080	344.080	
	(b) For Lift 1.5m to 3.0m	1			18.65	1.200	0.000	0.000	1062.534	1062.534	
	(c) For Lift 3.0m to 4.5m	1			18.65	1.200	0.000	0.000	324.590	324.590	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.65	1.600	0.000	0.000	157.752	157.752	
	(c) For Lift 3.0m to 4.5m	1			18.65	1.200	0.000	0.000	2.280	2.280	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.65	1.200	0.200	4.476	326.795	331.271	
	Item No 17 (c) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000	1297.500	1317.500	
	Item No 30 :- Refilling the excavated trenches ...							56.017			
	Total Excavation= A=										
	Deduction										
	pipe area	1.00		0.785	18.65	0.550	0.550	4.43			
	Murum bedding							4.48			
	Total = B							8.90			
									8895.103	8942.227	



Ready

[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 (Airport).

Book No. :- 016
Page No. :-

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L Sewer 1.2m MH Excavation

11th RA BILL MEASUREMENTS OF CHEMBERS API CORNER CONNECTION

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.66m										
	Area for chamber upto 2m=2.66*2.66=7.075m										
	LA 54.1										
	CH8.10	597.715	595.415	595.165			2.550				
	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	7.075	1.000	5.554	0.000	5.554	
	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	0.000	1.944	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	1.050	5.832	0.000	5.832	
	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	0.000	0.833	
	Item No. : 11 Transportation of earth Transportation charges							3.852	0.000	3.852	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							14.162			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.300	3.10			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							3.85			
	Net Qty = A - B							10.31	0.000	10.31	
	LA 54.2										
	CH24.30	597.565	595.465	595.215			2.350				
	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	5.554	11.108	
	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	1.944	3.888	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.850	4.721	5.832	10.552	



Reddy

LN