



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, Frection, Testing and Commission Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Frection, Testing and Commission No.98 and CIDCO (Airport) Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		1.206	2.412
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.609		5.037	10.646
Item No. 30 :- Refilling the excavated trenches ...										
Total Excavation=							17.041			
Deduction										
Brick work	1			0.785	2.280	2.280	0.370	1.510		
	1			0.785	1.540	1.540	1.500	2.793		
PCC	1			0.785	2.580	2.580	0.250	1.306		
Soling	1			0.785	2.580	2.580	0.000	0.000		
										5.609
										11.433
									10.879	22.311
Net Qty = A - B										
BMN.3										
CH68.25	557.914	556.074	555.824				2.090			
Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
(a) For Lift 0 to 1.5m	1			0.785	10.240	1.050	8.440		16.881	25.321
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.590	4.743		8.842	13.585
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	0.300	2.412		4.823	7.235
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		2.412	3.617
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.486		10.646	16.133
Item No. 30 :- Refilling the excavated trenches ...										
Total Excavation=									16.800	
Deduction										
Brick work	1			0.785	2.280	2.280	0.340	1.387		
	1			0.785	1.540	1.540	1.500	2.793		
PCC	1			0.785	2.580	2.580	0.250	1.306		
Soling	1			0.785	2.580	2.580	0.000	0.000		
										5.486
										11.314
Net Qty = A - B									11.314	22.311
BMN.4										
CH107.05	557.924	556.224	555.974				1.950			
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	1.050	8.440		25.321	33.761
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.450	3.617		13.585	17.202



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

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CH164.65	558.774	556.424	555.974			2.800					
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	1.050	8.440		42.202	50.642	
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.300	10.450		25.964	36.414	
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	0.300	2.412		12.058	14.469	
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		6.029	7.235	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.503		27.694	35.197	
Item No. 30 :- Refilling the excavated trenches ...											
Extra item no.:-5. a) Providing Rubble soling in 15 to 20 cm thk layer							1.045		1.045	2.090	
Total Excavation=									22.508		
Deduction											
Brick work	1			0.785	2.280	2.280	0.350	1.428			
	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	0.200	1.045			
								7.503			
Net Qty = A - B									15.004	58.558	73.563
BMN.7											
CH190.95	559.714	556.474	556.024			3.690					
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	1.050	8.440		50.642	59.082	
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		36.414	48.472	
(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.690	5.546		0.000	5.546	
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	0.300	2.412		14.469	16.881	
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		7.235	8.440	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							11.135		35.197	46.332	
Item No. 30 :- Refilling the excavated trenches ...											

Total upto Date

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AURANGABAD MUNICIPAL CORPORATION

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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone 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

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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	0.300	2.412		19.292	21.704
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1				0.785	10.240	0.150	1.206		9.646	10.852
Item No. : 11 Transportation of earth Transportation charges including loading & unloading											
								11.461		59.017	70.479
Item No. 30 :- Refilling the excavated trenches ...											
Extra item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer											
								1.045		4.180	5.225
Total Excavation=									30.305		
Deduction											
Brick work	1				0.785	2.280	2.280	1.320	5.387		
	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	0.200	1.045		
								11.461			
Net Qty = A - B									18.843	112.120	130.964
BMN.10											
CH259.85	560.124	557.624	557.374					2.750			
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	10.240	1.050	8.440		75.963	84.403
(b) For Lift 1.5m to 3.0m	1				0.785	10.240	1.250	10.048		72.587	82.635
(c) For Lift 3.0m to 4.5m	1				0.785	10.240	0.000	0.000		20.337	20.337
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	0.300	2.412		21.704	24.115
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1				0.785	10.240	0.150	1.206		10.852	12.058
Item No. : 11 Transportation of earth Transportation charges including loading & unloading											
								7.070		70.479	77.549
Item No. 30 :- Refilling the excavated trenches ...											
Extra item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer											
								0.000		5.225	5.225
Total Excavation=									22.106		
Deduction											
Brick work	1				0.785	2.280	2.280	0.500	2.040		
	1				0.785	1.540	1.540	2.000	3.723		
PCC	1				0.785	2.580	2.580	0.250	1.306		



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Measurement Book

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

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Soling	1			0.785	2.580	2.580	0.000	0.000			
								7.070			
				Net Qty = A - B				15.035		130.964	145.999
BMN.11											
CH293.65	560.244	557.744	557.494				2.750				
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	10.240	1.050	8.440		84.403	92.844	
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.250	10.048		82.635	92.683	
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	0.300	2.412		24.115	26.527	
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		12.058	13.263	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.070		77.549	84.619	
Item No. 30 :- Refilling the excavated trenches ...											
Extra item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer							0.000		5.225	5.225	
Total Excavation=								22.106			
Deduction											
Brick work	1			0.785	2.280	2.280	0.500	2.040			
	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			
								7.070			
				Net Qty = A - B				15.035		145.999	161.035
BMN.12											
CH334.95	560.594	557.894	557.644				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	1.500	12.058		92.844	104.901	
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.450	11.656		92.683	104.338	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.886		84.619	92.505	
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			



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AURANGABAD MUNICIPAL CORPORATION

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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone 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 STP for Aurangabad City.

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

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										7.886			
Net Qty = A - B										15.827	161.035	176.862	
BMN.13										3.050			
CH371.25	560.814	558.014	557.764										
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				104.901	116.959	
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058				104.338	116.396	
(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.050	0.402				20.337	20.739	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading											8.294	92.505	100.799
Item No. 30 :- Refilling the excavated trenches ...													
Total Excavation=													
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	176.862	193.085	
BMN.14										2.950			
CH377.55	560.734	558.034	557.784										
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				116.959	129.016	
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.450	11.656				116.396	128.052	
Item No. : 11 Transportation of earth Transportation charges including loading & unloading											7.886	100.799	108.686
Item No. 30 :- Refilling the excavated trenches ...													
Total Excavation=													
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	193.085	208.912	
BMN.15										2.550			
CH388.85	560.374	558.074	557.824										
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				129.016	141.074	
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.050	8.440				128.052	136.492	



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

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	Item No. : 11 Transportation of earth Transportation charges including loading & unloading								6.254		108.686	114.940
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=								20.498			
	Deduction											
	Brick work	1		0.785	2.280	2.280	0.300	1.224				
		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				
								6.254				
								Net Qty = A - B	14.244		208.912	223.156
	BMN.16											
	CH405.15	560.634	558.134	557.884				2.750				
	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	10.240	1.500	12.058			141.074	153.132
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.250	10.048			136.492	146.540
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading								7.070		114.940	122.010
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=								22.106			
	Deduction											
	Brick work	1		0.785	2.280	2.280	0.500	2.040				
		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				
								7.070				
								Net Qty = A - B	15.035		223.156	238.191
	BMN.17											
	CH431.45	560.634	558.234	557.984				2.650				
	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	1.200	9.646			153.132	162.778
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.150	9.244			146.540	155.784
	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			26.527	28.134
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804			13.263	14.067
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading								6.662		122.010	128.672



(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.250	10.048			191.555	201.603
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			32.957	34.565
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804			16.479	17.283
Item No. : 11 Transportation of earth Transportation charges including loading & unloading								7.070		153.555	160.625
Item No. 30 :- Refilling the excavated trenches ...									22.106		
Total Excavation=											
Deduction											
Brick work	1			0.785	2.280	2.280	0.500	2.040			
	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			
								7.070			
								15.035		301.499	316.535
BMN.22											
CH582.95	561.254	558.854	558.604					2.650			
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			201.362	213.420
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.150	9.244			201.603	210.847
Item No. : 11 Transportation of earth Transportation charges including loading & unloading								6.662		160.625	167.287
Item No. 30 :- Refilling the excavated trenches ...									21.302		
Total Excavation=											
Deduction											
Brick work	1			0.785	2.280	2.280	0.400	1.632			
	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			
								6.662			
								14.640		316.535	331.174
BMN.23											
CH586.75	560.654	559.054	558.604					2.050			
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			213.420	225.477
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.550	4.421			210.847	215.268
Item No. : 11 Transportation of earth Transportation charges including loading & unloading								7.105		167.287	174.392



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AURANGABAD MUNICIPAL CORPORATION

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

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

14 of 15

12th Baratmata Nagar, Baratmata Nagar

Item No. : 11 Transportation of earth Transportation charges including loading & unloading								6.214	180.309	186.523
Item No. 30 :- Refilling the excavated trenches ...										
Extra Item no.:-5. a) Providing Rubble soling in 15 to 20 cm thk layer								1.045	7.315	8.360
Total Excavation=								14.067		
Deduction										
Brick work	1		0.785	2.280	2.280	0.650		2.652		
	1		0.785	1.540	1.540	0.650		1.210		
PCC	1		0.785	2.580	2.580	0.250		1.306		
Soling	1		0.785	2.580	2.580	0.200		1.045		
								6.214		
								7.853	347.894	355.748
BMN.26										
CH673.15	561.184	559.584	559.134				2.050			
Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
(a) For Lift 0 to 1.5m	1		0.785	10.240	10.240	0.200		1.608	11.656	13.263
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	10.240	1.300		10.450	237.937	248.387
(b) For Lift 1.5m to 3.0m	1		0.785	10.240	10.240	0.550		4.421	218.484	222.905
Item No. : 11 Transportation of earth Transportation charges including loading & unloading								7.105	186.523	193.628
Item No. 30 :- Refilling the excavated trenches ...										
Extra Item no.:-5. a) Providing Rubble soling in 15 to 20 cm thk layer								1.045	8.360	9.405
Total Excavation=								16.479		
Deduction										
Brick work	1		0.785	2.280	2.280	0.800		3.265		
	1		0.785	1.540	1.540	0.800		1.489		
PCC	1		0.785	2.580	2.580	0.250		1.306		
Soling	1		0.785	2.580	2.580	0.200		1.045		
								7.105		
								9.373	355.748	365.121
BMN.27										
CH701.95	561.464	559.664	559.214				2.250			
Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
(a) For Lift 0 to 1.5m	1		0.785	10.240	10.240	0.200		1.608	13.263	14.871
Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :- 193

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

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

Date of Measurement

15 of 15

11th Baratmata Nagar, Baratmata Nagar

(a) For Lift 0 to 1.5m	1			0.785	10.240	1.300	10.450		248.387	258.836
(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.750	6.029		222.905	228.934
(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000		22.347	22.347
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		34.565	34.565
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			0.785	10.240	0.000	0.000		17.283	17.283
Item No. : 11 Transportation of earth Transportation charges including loading & unloading										
							7.700		193.628	201.328
Item No. 30 :- Refilling the excavated trenches ...										
Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer										
							1.045		9.405	10.451
Total Excavation=								18.086		
Deduction										
Brick work	1			0.785	2.280	2.280	0.900	3.673		
	1			0.785	1.540	1.540	0.900	1.676		
PCC	1			0.785	2.580	2.580	0.250	1.306		
Soling	1			0.785	2.580	2.580	0.200	1.045		
								7.700		
Net Qty = A - B								10.387	365.121	375.508



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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 V1 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, Frection, 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. :- 194
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

1 of 1

11th Baratmata Nagar MANHOLE

11th RA BILL MEASURMENTS BRANCH SEWER AT "BHARATMATA NAGAR"

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.	MB/ Page No	Chainage	MH No	MTL/GL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		10.65	BMN.1	557.624	555.894	1.73	-3.27		
2		41.95	BMN.2	557.884	556.014	1.87	-3.13		
3		68.25	BMN.3	557.914	556.074	1.84	-3.16		
4		107.05	BMN.4	557.924	556.224	1.70	-3.30		
5		145.85	BMN.5	558.484	556.344	2.14	-2.86		
6		164.65	BMN.6	558.774	556.424	2.35	-2.65		
7		190.95	BMN.7	559.714	556.474	3.24	-1.76		
8		212.25	BMN.8	560.194	556.574	3.62	-1.38		
9		236.05	BMN.9	560.444	557.124	3.32	-1.68		
10		259.85	BMN.10	560.124	557.624	2.50	-2.50		
11		293.65	BMN.11	560.244	557.744	2.50	-2.50		
12		334.95	BMN.12	560.594	557.894	2.70	-2.30		
13		371.25	BMN.13	560.814	558.014	2.80	-2.20		
14		377.55	BMN.14	560.734	558.034	2.70	-2.30	-67.19	-134.380
15		388.85	BMN.15	560.374	558.074	2.30	-2.70		
16		405.15	BMN.16	560.634	558.134	2.50	-2.50		
17		431.45	BMN.17	560.634	558.234	2.40	-2.60		
18		457.75	BMN.18	561.034	558.334	2.70	-2.30		
19		484.05	BMN.19	561.334	558.434	2.90	-2.10		
20		510.35	BMN.20	561.334	558.534	2.80	-2.20		
21		539.15	BMN.21	561.154	558.654	2.50	-2.50		
22		582.95	BMN.22	561.254	558.854	2.40	-2.60		
23		586.75	BMN.23	561.854	559.054	2.80	-2.20		
24		608.05	BMN.24	561.534	559.334	2.20	-2.80		
25		639.35	BMN.25	561.954	559.454	2.50	-2.50		
26		673.15	BMN.26	561.884	559.584	2.30	-2.70		
27		701.95	BMN.27	562.164	559.664	2.50	-2.50		



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 196
Page No. :-

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

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

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

12th Baratismata Nagar Quantity Node Abstract

12th R.A BILL MEASUREMENTS
BRANCH SEWER AT "BHARATMATA NAGAR"

SR NO	Description	MB/PG	ITEM 1			ITEM 2	ITEM 3	ITEM 4	ITEM 7	ITEM 11	ITEM 17	ITEM 23	ITEM 23.1	ITEM 30	EIRL 5
			0-1.5	1.5-3.0	3.0-4.5										
1	For Pipe		1,187.182	758.132	25.452	155.908	80.510	129.704	96.156	294.141	667.500			1,990.997	51.696
2	For Manhole		258.836	228.934	22.347	34.565	14.871	17.283	201.328				(134.380)	375.508	10.451
Total			1,446.018	987.065	47.799	190.473	95.381	146.987	495.469	667.500	27.000	(134.380)	2,366.505	62.147	

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Total upto Date

10



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 SIPP

Book No. :-
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11th Ghrushneswar Nagar 400mm-(M Branch Mayur Park)-Ghrushneswar Nagar 400mm-MB(2)

11th RA BILL MEASUREMENTS Ghrushneswar Nagar (M Branch Sewer)

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-Branch At Ghrushneswar Nagar										
	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										
	MH 166/168 to MH 166/168.1									1.5 BBM MH	
	CH10491.50	600.310	596.935	596.735			3.58				
	CH10514.60	600.000	596.995	596.795			3.21	3.390			
	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			22.00	2.000	1.500	66.000		0.000	66.000
	(b) For Lift 1.5m to 3.0m	1			22.00	1.600	1.500	52.800		0.000	52.800
	(c) For Lift 3.0m to 4.5m	1			22.00	1.200	0.390	10.296		0.000	10.296
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			22.00	1.200	0.200	5.280		0.000	5.280
	Item No. : 11 Transportation of earth Transportation charges							10.504		0.000	10.504
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.50			22.500		0.000	22.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							129.886			
	Deduction							#####			
	pipe area	1		0.785	22.00	0.550	0.550	5.22			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.28			
	Total = B							10.50			
					Net Qty = A - B					0.000	118.592
	CH10514.60	600.000	596.995	596.795			3.21				
	CH10537.70	600.100	596.995	596.795			3.31	3.255			
	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			21.50	2.000	1.500	64.500		66.000	130.500
	(b) For Lift 1.5m to 3.0m	1			21.50	1.600	1.500	51.600		52.800	104.400
	(c) For Lift 3.0m to 4.5m	1			21.50	1.200	0.255	6.579		10.296	16.875
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			21.50	1.200	0.200	5.160		5.280	10.440
	Item No. : 11 Transportation of earth Transportation charges							10.265		10.504	20.770
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.50			22.500		22.500	45.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							#####			

122.68



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 198
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 Sewerage Treatment Plant based on modern technology. Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewerage 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).

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1st Ghrushneswar Nagar 400mm-(M Branch Mayur Park)-Ghrushneswar Nagar 400mm-MB(2)

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Deduction	1		0.785	21.50	0.550	0.550	5.11			
	pipe area							0.00			
	soling							0.00			
	PCC							5.16			
	Murrum bedding							10.27			
	Total = B							112.41	118.592	231.005	
				Net Qty = A - B							
	MH166/168.1	600.100	597.235	597.035			3.07	3.055			
	CH10537.70	600.150	597.305	597.105			3.05				
	CH10560.80										
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.				21.50	1.600	1.500	51.600	130.500	182.100	
	(a) For Lift 0 to 1.5m	1			21.50	1.200	1.500	38.700	104.400	143.100	
	(b) For Lift 1.5m to 3.0m	1			21.50	1.200	0.055	1.419	16.875	18.294	
	(c) For Lift 3.0m to 4.5m	1			21.50	1.200	0.200	5.160	10.440	15.600	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1						10.265	20.770	31.035	
	Item No. : 11 Transportation of earth Transportation charges							22.500	45.000	67.500	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.50						
	Item No 30 :- Refilling the excavated trenches ...							91.719			
	Total Excavation = A										
	Deduction	1		0.785	21.50	0.550	0.550	5.11			
	pipe area							0.00			
	soling							0.00			
	PCC							5.16			
	Murrum bedding							10.27			
	Total = B							81.45	231.005	312.459	
				Net Qty = A - B							
	CH10560.80	600.150	597.305	597.105			3.05	3.038			
	CH10581.40	600.200	597.370	597.170			3.03				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.				19.00	1.600	1.500	45.600	182.100	227.700	
	(a) For Lift 0 to 1.5m	1			19.00	1.200	1.500	34.200	143.100	177.300	
	(b) For Lift 1.5m to 3.0m	1			19.00	1.200	0.038	0.866	18.294	19.160	
	(c) For Lift 3.0m to 4.5m	1			19.00	1.200	0.200	4.560	15.600	20.160	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.00	1.200	0.200	4.560	15.600	20.160	
	Item No. : 11 Transportation of earth Transportation charges							9.072	31.035	40.107	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000	67.500	87.500	
	Item No 30 :- Refilling the excavated trenches ...							80.666			
	Total Excavation = A										
	Deduction										
	pipe area	1		0.785	19.00	0.550	0.550	4.51			
	soling							0.00			
	PCC							0.00			



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Name of

Author

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11th Ghrushneswar Nagar 400mm-(M Branch Mayur Park)-Ghrushneswar Nagar 400mm-MB(2)

Date of Measurement

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murum bedding										
	Total = B						4.56				
							9.07				
	MH166/168.2										
	CH10581.40										
	CH10604.50	600.200	597.700	597.500			2.70				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.	600.400	597.770	597.570			2.83	2.765			
	(a) For Lift 0 to 1.5m	1			21.50	1.600	1.500	51.600		227.700	279.300
	(b) For Lift 1.5m to 3.0m	1			21.50	1.200	1.265	32.637		177.300	209.937
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			21.50	1.200	0.200	5.160		20.160	25.320
	Item No. : 11 Transportation of earth Transportation charges							10.265		40.107	50.372
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.50			22.500		87.500	110.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							84.237			
	Deduction										
	pipe area	1			0.785	21.50	0.550	0.550	5.11		
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.00			
	Total = B							5.16			
								10.27			
								73.97		384.054	458.025
	CH10604.50	600.400	597.770	597.570							
	CH10625.10	600.450	597.840	597.640			2.83	2.820			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						2.81				
	(a) For Lift 0 to 1.5m	1			19.00	1.600	1.500	45.600		279.300	324.900
	(b) For Lift 1.5m to 3.0m	1			19.00	1.200	1.320	30.096		209.937	240.033
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.00	1.200	0.200	4.560		25.320	29.880
	Item No. : 11 Transportation of earth Transportation charges							9.072		50.372	59.444
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000		110.000	130.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							75.696			
	Deduction										
	pipe area	1			0.785	19.00	0.550	0.550	4.51		
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.00			
	Total = B							4.56			
								9.07			
								66.62		458.025	524.649
	MH166/168.3										
	CH10625.10	600.450	597.990	597.790							
	CH10648.80	600.580	598.080	597.880			2.66	2.680			
							2.70				



continued in MB 4582/157