



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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

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

		Details						Last
4 OF 4		Milind Nagar-03 Chamber meas.						
Deduction								
Brick work	1.00	0.785	2.280	2.280	0.860	3.51		
Brick work	1.00	0.785	1.540	1.540	1.200	2.23		
soling						0.00		
PCC	1.00	0.785	2.580	2.580	0.250	1.31		
Murrum bedding						0.00		
Total (B)						7.05		
Net Qty = A - B						11.52		
MN.07						61.697	73.22	
CH186.00	565.770	563.610	563.360		2.410			
Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.								
(a) For Lift 0 to 1.5m	1		0.785	10.240	1.000	8.038	28.134	
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.								
(a) For Lift 0 to 1.5m	1		0.785	10.240	0.400	3.215	28.134	
(b) For Lift 1.5m to 3.0m	1		0.785	10.240	0.200	1.608	37.780	
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	4.019	
(b) For Lift 1.5m to 3.0m	1		0.785	10.240	0.710	5.707	16.961	
(c) For Lift 3.0m to 4.5m	1		0.785	10.240	0.000	0.000	8.280	
Item No. 11 :- Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate						7.458	45.471	
Item No. 30 :- Refilling the excavated trenches ...								
Total Excavation(A)=						19.373		
Deduction								
Brick work	1.00	0.785	2.280	2.280	0.960	3.92		
Brick work	1.00	0.785	1.540	1.540	1.200	2.23		
soling						0.00		
PCC	1.00	0.785	2.580	2.580	0.250	1.31		
Murrum bedding						0.00		
Total (B)						7.46		
Net Qty = A - B						11.91	73.216	



Signature



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

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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	P	D	mins	Page	Quan-	

1 of 1

Milind Nagar-03, chamber

19th RA BILL MEASUREMENTS CHEMBER DETAILS MILIND NAGAR-03

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 5.0 M etc., complete

SR NO	Chainage	MH No	MTL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/A dd for Excess
MILIND NAGAR-03								
1	CH56.20	MN.02	564.920	561.715	3.205	-1.795	-13.295	-26.59
2	CH87.70	MN.03	565.430	562.390	3.040	-1.960		
3	CH124.20	MN.04	566.050	562.620	3.430	-1.570		
4	CH148.40	MN.05	566.080	563.270	2.810	-2.190		
5	CH162.40	MN.06	565.370	563.310	2.060	-2.940		
6	CH186.00	MN.07	565.770	563.610	2.160	-2.840		
TOTAL								-26.59



Apoorv
Sec-Enj



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Eknath Nagar (Onkareshwar Temple) - Measurement DWC Pipe

11th R A BILL MEASUREMENTS DWC PIPE OSMANPURA (EKNATH NAGAR-FULE NAGAR)

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	DWC - 315MM 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										
15/9/16	EO Old to EO 01										
	CH0.00	563.715	562.015	561.915			1.800				
	CH16.35	563.825	562.255	562.155			1.670				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.350	1.215	1.500	26.153	0.000	26.153	
	(b) For Lift 1.5m to 3.0m	1			14.350	0.815	0.235	2.748	0.000	2.748	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.950	0.815	0.100	1.218	0.000	1.218	
	Item No. : 11 Transportation of earth Transportation charges including loading &							2.383	0.000	2.383	
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			15.450			15.450	0.000	15.450	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.901			
	Deduction										
	pipe area	1		0.785	14.950	0.315	0.315	1.164			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.218			
								2.383			
								26.518	0.000	26.518	
	Net Qty = A - B										
15/9/16	EO 01 to EO 02										
	CH16.35	563.825	562.255	562.155			1.670				
	CH33.35	564.085	562.375	562.275			1.810				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.000	1.215	1.500	27.338	26.153	53.490	
	(b) For Lift 1.5m to 3.0m	1			15.000	0.815	0.240	2.934	2.748	5.682	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.600	0.815	0.100	1.271	1.218	2.490	
	Item No. : 11 Transportation of earth Transportation charges including loading &							2.487	2.383	4.869	



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2 of 5 Eknath Nagar (Onkareshwar Temple) - Measurement DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up-to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			16.100			16.100		15.450	31.550
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.272			
	Deduction										
	pipe area	1		0.785	15.600	0.315	0.315	1.215			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.271			
								2.487			
								27.785		26.518	54.303
	Net Qty = A - B										
31/9/18	EO 02 to EO 03										
	CH33.35	564.085	562.375	562.275			1.810				
	CH52.80	564.535	562.875	562.775			1.760	1.785			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.120	1.215	0.600	12.480		53.490	65.970
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.120	1.215	0.850	17.681	0.000		17.681
	(b) For Lift 1.5 to 3.0m	1			17.120	0.815	0.285	3.977	0.000		3.977
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			17.120	1.215	0.050	1.040		0.000	1.040
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.720	0.815	0.100	1.444		2.490	3.534
	Item No. : 11 Transportation of earth Transportation charges including loading &							2.824		4.869	7.694
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			18.220			18.220		31.550	49.770
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							35.178			
	Deduction										
	pipe area	1		0.785	17.720	0.315	0.315	1.380			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.444			
								2.824			
								32.353		54.303	86.657
	Net Qty = A - B										
31/9/18	EO 03 to EO 04										
	CH52.80	564.535	562.875	562.775			1.760				
	CH80.35	565.265	563.505	563.405			1.860	1.810			



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Ekhnath Nagar (Onkareshwar Temple) - Measurement DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement Page	Total Upto Date Quantity
		No			L	B	D			
		GL	IL	EX.L						
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			25.250	1.215	0.300	9.204	65.971	75.174
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			25.250	1.215	0.800	24.543	17.681	42.224
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			25.250	1.215	0.400	12.272	1.040	13.312
	(b) For Lift 1.5 to 3.0m	1			25.250	0.815	0.310	6.379	0.000	6.379
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.850	0.815	0.100	2.107	3.934	6.041
	Item No. : 11 Transportation of earth Transportation charges including loading &							4.120	7.694	11.814
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			26.350			26.350	49.770	76.120
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=							46.018		
	Deduction									
	pipe area	1		0.785	25.850	0.315	0.315	2.013		
	soling							0.000		
	PCC							0.000		
	Murrum bedding							2.107		
								4.120		
								41.898	86.657	128.555
20/9/11	EO 05 to EO 05/01									
	CH0.00	565.565	564.035	563.935			1.630			
	CH3.85	565.595	564.695	564.595			1.000	1.315		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			1.850	0.815	0.500	0.754	75.174	75.928
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			1.850	0.815	0.765	1.153	42.224	43.377
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			1.850	0.815	0.050	0.075	13.312	13.387
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.450	0.815	0.100	0.200	6.041	6.240
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.391	11.814	12.205





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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahim 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 Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main

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Ekmath Nagar (Onkareshwar Temple) - Measurement DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			2.950			2.950		76.120	79.070
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.983			
	Deduction										
	pipe area	1		0.785	2.450	0.315	0.315	0.191			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.200			
								0.391			
	Net Qty = A - B							1.592	128.555	130.147	
28/9/16	EO 07 to EO 07/01										
	CH0.00	566.015	564.415	564.315			1.700				
	CH6.75	566.335	564.955	564.855			1.480	1.590			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.750	0.815	0.500	1.936		75.928	77.864
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.750	0.815	0.950	3.678		43.377	47.055
	(b) For Lift 1.5 to 3.0m	1			4.750	0.815	0.090	0.348		3.977	4.325
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.750	0.815	0.050	0.194		13.387	13.581
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.350	0.815	0.100	0.436		6.240	6.676
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.853		12.205	13.157
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			5.850			5.850		79.070	84.920
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.155			
	Deduction										
	pipe area	1		0.785	5.350	0.315	0.315	0.417			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.436			
								0.853			
	Net Qty = A - B							5.303	130.147	135.44	
28/9/16	EO 08 to EO 08/01										
	CH0.00	566.355	565.775	565.675			0.680				
	CH7.40	566.725	565.775	565.675			1.050	0.865			





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

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

Date of Meas-	Particulars of Work	Details						Last Measurement		Total up to Date	
		GL	No IL	EX.L	L	B	D	Page	Quan-		
5 of 5 Eknath Nagar (Onkareshwar Temple) - Measurement DWC Pipe											
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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m **	1			5.400	0.815	0.500	2.201		77.864	80.064
	(b) For Lift 1.5m to 3.0m	1			5.400	0.815	0.000	0.000		5.682	5.682
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.400	0.815	0.315	1.386		47.055	48.441
	(b) For Lift 1.5 to 3.0m	1			5.400	0.815	0.000	0.000		4.325	4.325
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m **	1			5.400	0.815	0.050	0.220		13.580	13.801
	(b) For Lift 1.5 to 3.0m	1			5.400	0.815	0.000	0.000		6.379	6.379
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.000	0.815	0.100	0.489		6.676	7.165
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.956		13.057	14.014
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia **	1			6.500			6.500		84.920	91.420
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.807			
	Deduction										
	pipe area	1		0.785	6.000	0.315	0.315	0.467			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.489			
								0.956			
	Net Qty = A - B							2.851	135.449	138.300	



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Ekmath Nagar (Onkareshwar Temple) - Measurement RCC

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	HL	EX.L							
	(a) For Lift 0 to 1.5m	1			6.400	1.360	0.500	4.352		92.916	97.268
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	1.360	0.950	8.269		72.860	81.129
	(b) For Lift 1.5m to 3.0m	1			6.400	0.960	0.185	1.137		10.585	11.721
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	1.360	0.050	0.435		15.086	15.521
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.000	0.960	0.100	0.672		9.037	9.709
	Item No. : 11 Transportation of earth Transportation charges							1.465		18.096	19.562
	Extra Item 9.3 :- (c)Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			7.500			7.500		20.000	27.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							14.193			
	Deduction										
	pipe area	1		0.785	7.00	0.380	0.380	0.793			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.672			
	Total = B							1.465			
								Net Qty = A - B		179.033	191.760
	EO 06 to EO 07										
	CH109.65	565.615	564.175	563.975			1.640	1.720			
	CH128.05	566.015	564.415	564.215			1.800				
	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			16.400	1.360	0.500	11.152		97.268	108.420
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	1.360	0.950	21.189		81.129	102.318
	(b) For Lift 1.5m to 3.0m	1			16.400	0.960	0.220	3.464		11.721	15.185
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.400	1.360	0.050	1.115		15.521	16.636
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.000	0.960	0.100	1.632		9.709	11.341
	Item No. : 11 Transportation of earth Transportation charges							3.559		19.562	23.121
	Extra Item 9.3 :- (c)Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			17.500			17.500		27.500	45.000
	Item No 30 :- Refilling the excavated trenches ...										



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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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Ekhnath Nagar (Onkareshwar Temple) - Measurement RCC

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Total Excavation = A						36.920				
	Deduction										
	pipe area	1		0.785	17.00	0.380	0.380	1.927			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.632			
	Total = B							3.559			
				Net Qty = A - B				33.361	191.760	225.121	
25/9/11	EO 07 to EO 08										
	CH128.05	566.015	564.415	564.215			1.800	1.810			
	CH153.95	566.355	564.735	564.535			1.820				
	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			23.900	1.360	0.500	16.252	108.420	124.672	
	(b) For Lift 1.5m to 3.0m	1			23.900	0.960	0.000	0.000	5.682	5.682	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.900	1.360	0.950	30.879	102.318	133.196	
	(b) For Lift 1.5m to 3.0m	1			23.900	0.960	0.310	7.113	15.185	22.298	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.900	1.360	0.050	1.625	16.636	18.261	
	(b) For Lift 1.5m to 3.0m	1			23.900	0.960	0.000	0.000	6.379	6.379	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			24.500	0.960	0.100	2.352	11.341	13.693	
	Item No. : 11 Transportation of earth Transportation charges							5.129	23.121	28.250	
	Extra item 9.3 :- (c) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			25.000			25.000	45.000	70.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							55.869			
	Deduction										
	pipe area	1		0.785	24.50	0.380	0.380	2.777			
	soling							0.000			
	PCC							0.000			
	Murum bedding							2.352			
	Total = B							5.129			
				Net Qty = A - B				50.739	225.121	275.860	
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.161			0.161		0.161	



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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

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Eknath Nagar (Onkareshwar Temple) - Meas. SW 300

Na

17th RA BILL MEASUREMENTS PIPE OSMANPURA (EKNATH NAGAR-FULE NAGAR)

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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							
	SW PIPE - 300 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.300+0.02+0.02+0.5=0.84m										
	For Lift 1.5 to 3.00m- 0.300+0.02+0.02+0.5+0.4=1.24m										
	For Lift 3.0 to 4.5m- 0.300+0.5+0.02+0.02+0.4+0.4=1.64m										
26/01/16	EO 8 to EO 9						1.720	1.635			
	CH153.95	566.355	564.735	564.635							
	CH180.15	565.925	564.475	564.375			1.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.750	1.240	1.350	41.432		124.672	166.104
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.750	1.240	0.150	4.604		133.196	137.800
	(b) For Lift 1.5m to 3.0m	1			24.750	0.840	0.125	2.599		22.298	24.896
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			24.750	1.240	0.000	0.000		18.261	18.261
	(b) For Lift 1.5m to 3.0m	1			24.750	0.840	0.000	0.000		6.379	6.379
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.050	0.840	0.100	2.104		13.693	15.798
	Item No. : 11 Transportation of earth Transportation charges including loading &							4.118		28.250	32.368
	Extra Item 9.2 (e) :- Lowering & Laying of Polyethylene SW pipe of 300mm Dia	1			25.550			25.550			25.550
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							48.634			
	Deduction										
	pipe area	1		0.785	25.050	0.320	0.320	2.014			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.104			
								4.118			
	Net Qty = A - B							44.516		275.860	320.376
26/1/16	EO 9 to EO 10										
	CH180.15	565.925	564.475	564.375			1.550	1.575			
	CH203.15	566.025	564.525	564.425			1.600				



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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

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6 of 11 Eknath Nagar (Onkareshwar Temple) - Meas. SW 300

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.700	0.840	0.300	1.940			
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.								142.285	144.225	
	(a) For Lift 0 to 1.5m	1			7.700	0.840	0.050	0.323		18.884	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.300	0.840	0.100	0.697		19.363	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.364		39.346	
	Extra Item 9.2 (e) :- Lowering & Laying of Polyethylene SW pipe of 300mm Dia	1			8.800			8.800		71.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.508			
	Deduction										
	pipe area	1		0.785	8.300	0.320	0.320	0.667			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.697			
								1.364			
								8.144	371.106	379.250	
	Net Qty = A - B										
	EO 16 to EO 17										
	CH240.70	567.315	565.895	565.795			1.520	1.540			
	CH245.70	567.395	565.935	565.835			1.560				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.840	1.190	2.999		223.547	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.840	0.260	0.655	144.225	144.225	
	(b) For Lift 1.5m to 3.0m	1			3.000	0.840	0.040	0.101	26.802	26.802	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.000	0.840	0.050	0.126	19.207	19.333	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.600	0.840	0.100	0.302	20.061	20.365	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.592	40.710	41.302	



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

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Eknath Nagar (Onkareshwar Temple) - Meas. SW 300

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item 9.2 (e) :- Lowering & Laying of Polyethylene SW pipe of 300mm Dia	1			4.100			4.100		79.800	83.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.881			
	Deduction										
	pipe area	1		0.785	3.600	0.320	0.320	0.289			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.302			
								0.592			
								3.289		379.250	382.539
	Net Qty = A - B										
11/11/16	EO 17 to EO 18										
	CH245.70	567.395	565.935	565.835			1.560	1.535			
	CH251.30	567.445	566.035	565.935			1.510				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.600	0.840	1.185	3.583		226.546	230.129
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.600	0.840	0.265	0.801		144.881	145.682
	(b) For Lift 1.5m to 3.0m	1			3.600	0.840	0.035	0.106		26.903	27.009
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.600	0.840	0.050	0.151		19.333	19.485
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.200	0.840	0.100	0.353		20.363	20.716
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.690		41.302	41.992
	Extra Item 9.2 (e) :- Lowering & Laying of Polyethylene SW pipe of 300mm Dia	1			4.700			4.700		83.900	88.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.642			
	Deduction										
	pipe area	1		0.785	4.200	0.320	0.320	0.338			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.353			
								0.690			
								3.951		382.539	386.490
	Net Qty = A - B										
21/11/16	EO 18 to EO 19										
	CH251.30	567.445	566.035	565.935			1.510				



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Eknath Nagar (Onkareshwar Temple) - Meas. SW 300

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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							
	CH262.30	567.550	566.115	566.015			1.535				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.000	0.840	1.173	8.868		230.129	238.997
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.000	0.840	0.277	2.094		145.682	147.776
	(b) For Lift 1.5m to 3.0m	1			9.000	0.840	0.023	0.174		27.009	27.183
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.000	0.840	0.050	0.378		19.485	19.863
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.600	0.840	0.100	0.806		20.716	21.522
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.578		41.992	43.570
	Extra Item 9.2 (e) :- Lowering & Laying of Polyethylene SW pipe of 300mm Dia	1			10.100			10.100		88.600	98.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.514			
	Deduction										
	pipe area	1		0.785	9.600	0.320	0.320	0.772			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.806			
								1.578			
								Net Qty = A - B		386.490	396.426
	EO 19 to EO 20							9.936			
	CH262.30	567.550	566.115	566.015			1.535				
	CH278.30	567.915	566.295	566.195			1.720	1.628			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	1.240	1.227	21.301		238.997	260.298
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	1.240	0.223	3.871		147.776	151.647
	(b) For Lift 1.5m to 3.0m	1			14.000	0.840	0.127	1.494		27.183	28.676
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.000	1.240	0.050	0.868		19.863	20.731



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Eknath Nagar (Onkareshwar Temple) - Meas. SW 300

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PCC							0.000			
	Murrum bedding							0.554			
								1.085			
		Net Qty = A - B						11.133		421.560	432.693
5/11/16	EO 11 to EO 11.1										
	CH0.00	567.015	565.445	565.345			1.670	1.585			
	CH4.00	566.325	564.925	564.825			1.500				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.550	1.240	1.325	4.190		270.044	274.234
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.550	1.240	0.125	0.395		152.689	153.084
	(b) For Lift 1.5m to 3.0m	1			2.550	0.840	0.085	0.182		29.735	29.917
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.550	1.240	0.050	0.158		21.103	21.261
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.150	0.840	0.100	0.265		23.303	23.568
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.518		47.055	47.573
	Extra Item 9.2 (e) :- Lowering & Laying of Polyethylene SW pipe of 300mm Dia	1			3.650			3.650		120.900	124.550
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.925			
	Deduction										
	pipe area	1			0.785	3.150	0.320	0.320	0.253		
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.265			
								0.518			
		Net Qty = A - B						4.407		432.693	437.100
5/11/16	EO 11.1 to EO 11.2										
	CH4.00	566.325	564.925	564.825			1.500	1.225			
	CH6.50	566.125	565.275	565.175			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.100	0.840	0.975	0.901		274.234	275.135
	(b) For Lift 1.5m to 3.0m	1			1.100	0.840	0.000	0.000		6.178	6.178
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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

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

		Details						Last Measurement			
11 of 11											
Eknath Nagar (Onkareshwar Temple) - Meas. SW 300											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
GL	IL	EX.L									
	(a) For Lift 0 to 1.5m	1			1.100	0.840	0.200	0.185		153.084	153.269
	(b) For Lift 1.5m to 3.0m	1			1.100	0.840	0.000	0.000		29.917	29.917
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.100	0.840	0.050	0.046		21.261	21.307
	(b) For Lift 1.5m to 3.0m	1			1.100	0.840	0.000	0.000		6.379	6.379
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.400	0.840	0.100	0.118		23.568	23.685
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.230		47.573	47.803
	Extra Item 9.2 (e) :- Lowering & Laying of Polyethylene SW pipe of 300mm Dia	1			1.900			1.900		124.550	126.450
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.132			
	Deduction										
	pipe area	1		0.785	1.400	0.320	0.320	0.113			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.118			
								0.230			
	Net Qty = A - B							0.902		437.100	438.002



Signature
Secretary

AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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Eknath Nagar (Onkareshwar Temple) - Meas. DWC 250

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17th RA BILL MEASUREMENTS PIPE OSMANPURA (EKNATHNAGAR-FULE NAGAR)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC PIPE - 250 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.250*0.5=0.75m										
	For Lift 1.5 to 3.00m- 0.250*0.5*0.4=1.150m										
	For Lift 3.0 to 4.5m- 0.250*0.5*0.4*0.4=1.550m										
7/10/16	EO 21 to EO 22										
	CH286.30	568.075	566.475	566.375			1.700	1.675			
	CH294.30	568.195	566.645	566.545			1.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.000	1.150	1.275	8.798	275.135	283.933	
	(b) For Lift 1.5m to 3.0m	1			6.000	0.750	0.000	0.000	6.178	6.178	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.000	1.150	0.175	1.208	153.269	154.476	
	(b) For Lift 1.5m to 3.0m	1			6.000	0.750	0.175	0.788	29.917	30.704	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.000	1.150	0.050	0.345	21.307	21.652	
	(b) For Lift 1.5m to 3.0m	1			6.000	0.750	0.000	0.000	6.379	6.379	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			6.600	0.750	0.100	0.495	23.685	24.180	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.819	47.803	48.622	
	Item No.13 (c) :- Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			7.100			7.100		7.100	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavations							11.138			
	Deduction										
	pipe area	1		0.785	6.600	0.250	0.250	0.324			
	soiling							0.000			
	PCC							0.000			
	Murrum bedding							0.495			
								0.819			
	Net Qty = A - B							10.319	438.002	448.321	
7/10/16	EO 22 to EO 23										
	CH294.30	568.195	566.645	566.545			1.650	1.690			
	CH302.60	568.275	566.645	566.545			1.730				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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