







# 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. :- 175  
Page No. :-

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

S.No. 146/Ward B & C/UDSSMT/2014/184 Date 01.07.2014

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Sewer F 900-MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.00	2.200	0.100	4.180		3.080	7.260
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock										
	(a) For Lift 0 to 1.5m	1			19.00	2.200	0.070	2.926		2.156	5.082
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.00	1.800	0.200	6.840		5.040	11.880
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							24.887		18.338	43.225
	<b>Item No. 17 (g) :-</b> Lowering & Laying RCC NP3 class pipe of 900mm Dia	1			20.00			20.000		15.000	35.000
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A</b>							104.527			
	<b>Deduction</b>										
	pipe area	1		0.785	19.00	1.100	1.100	18.05			
	Murrum bedding							6.84			
	<b>Total = B</b>							24.89			
								<b>Net Qty = A - B</b>		56.338	135.978
	<b>CH36.20</b>	584.470	581.925	581.625			2.845	2.865			
	<b>CH46.20</b>	584.520	581.935	581.635			2.885				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.00	2.200	1.330	29.260		96.558	125.818
	(b) For Lift 1.5m to 3.0m	1			10.00	1.800	1.365	24.570		70.303	94.873
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.00	2.200	0.100	2.200		7.260	9.460
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock										
	(a) For Lift 0 to 1.5m	1			10.00	2.200	0.070	1.540		5.082	6.622
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.00	1.800	0.200	3.600		11.880	15.480
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							13.099		43.225	56.324
	<b>Item No. 17 (g) :-</b> Lowering & Laying RCC NP3 class pipe of 900mm Dia	1			10.00			10.000		35.000	45.000
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A</b>							57.570			
	<b>Deduction</b>										
	pipe area	1		0.785	10.00	1.100	1.100	9.50			
	Murrum bedding							3.60			
	<b>Total = B</b>							13.10			
								<b>Net Qty = A - B</b>		135.978	180.449



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Book No. : 177  
Page No. :-

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 ...							123.600			
	<b>Total Excavation= A</b>										
	<b>Deduction</b>			0.785	20.00	1.100	1.100	19.00			
	pipe area	1						7.20			
	Murum bedding							26.20			
	<b>Total = B</b>							97.40	273.964	371.367	
				Net Qty = A - B							
	CH86.20	584.780	581.980	581.680			3.100	3.095			
	CH106.20	584.800	582.010	581.710			3.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.				20.00	2.200	1.330	58.520	242.858	301.378	
	(a) For Lift 0 to 1.5m	1			20.00	1.800	1.500	54.000	202.585	256.585	
	(b) For Lift 1.5m to 3.0m	1			20.00	1.800	0.095	3.420	3.600	7.020	
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.				20.00	2.200	0.100	4.400	18.260	22.660	
	(a) For Lift 0 to 1.5m	1									
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock				20.00	2.200	0.070	3.080	12.782	15.862	
	(a) For Lift 0 to 1.5m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.00	1.800	0.200	7.200	29.880	37.080	
	Item No. : 11 Transportation of earth Transportation charges including							26.197	108.718	134.915	
	Item No. 17 (g) :- Lowering & Laying RCC NP3 class pipe of 900mm Dia	1			20.00			20.000	85.000	105.000	
	Item No 30 :- Refilling the excavated trenches ...							123.420			
	<b>Total Excavation= A</b>										
	<b>Deduction</b>			0.785	20.00	1.100	1.100	19.00			
	pipe area	1						7.20			
	Murum bedding							26.20			
	<b>Total = B</b>							97.22	371.367	468.590	
				Net Qty = A - B							
	CH106.20	584.800	582.010	581.710			3.090	3.075			
	CH129.30	584.800	582.040	581.740			3.060		FSW 2		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.				21.50	2.200	1.330	62.909	301.378	364.287	
	(a) For Lift 0 to 1.5m	1			21.50	1.800	1.500	58.050	256.585	314.635	
	(b) For Lift 1.5m to 3.0m	1			21.50	1.800	0.075	2.903	7.020	9.923	
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.				21.50	2.200	0.100	4.730	22.660	27.390	
	(a) For Lift 0 to 1.5m	1									
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock				21.50	2.200	0.070	3.311	15.862	19.173	
	(a) For Lift 0 to 1.5m	1									



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

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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	

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Sewer F 900-MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.50	1.800	0.200	7.740		37.080	44.820
	Item No. : 11 Transportation of earth Transportation charges including							28.162		134.915	163.076
	Item No. 17 (g) :- Lowering & Laying RCC NP3 class pipe of 900mm Dia	1			22.50			22.500		105.000	127.500
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation= A</b>							<b>131.903</b>			
	<b>Deduction</b>										
	pipe area	1			0.785	21.50	1.100	1.100	20.42		
	Murum bedding							7.74			
	<b>Total = B</b>							<b>28.16</b>			
					<b>Net Qty = A - B</b>				<b>103.74</b>	<b>468.590</b>	<b>572.331</b>



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Sewer F-700mm-MB

### 17th RA BILL MEASUREMENTS

#### SEWER "F"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	F-700mm Dia Near Dashmeshnagar										
	Width of trench-										
	For Bottom Lift 0.00-1.50m- 0.7+0.17+0.17+0.5=1.54m										
	From Bottom Lift 1.50-3.00m- 0.7+0.17+0.17+0.5+0.4=1.94m										
	From Bottom Lift 3.00-4.50m- 0.7+0.17+0.17+0.5+0.4+0.4 = 2.34m										
	From Bottom Lift 4.50-6.0m- 0.7+0.17+0.17+0.5+0.4+0.4+0.4 = 2.74m										
	CH1865.70	567.850	563.620	563.420			4.430	4.630			
	CH1883.20	568.280	563.650	563.450			4.830				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			17.50	2.740	1.500	71.925	364.287	436.212	
	(b) For Lift 1.5m to 3.0m	1			17.50	2.340	0.500	20.475	314.635	335.110	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			17.50	2.340	1.000	40.950	0.000	40.950	
	(c) For Lift 3.0m to 4.5m	1			17.50	1.940	0.400	13.580	0.000	13.580	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			17.50	1.940	1.000	33.950	0.000	33.950	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			17.50	1.940	0.100	3.395	0.000	3.395	
	(d) For Lift 4.5m to 6.0m	1			17.50	1.540	0.130	3.504	0.000	3.504	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			17.50	1.540	0.200	5.390	44.820	50.210	
	Item No. 11 Transportation of earth Transportation charges including							15.788	163.076	178.864	
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			17.50			17.500	0.000	17.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation= A</b>							<b>187.779</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	17.50	0.870	0.870	10.40			
	Murrum bedding							5.39			
	<b>Total = B</b>							<b>15.79</b>			
	<b>Net Qty = A - B</b>							<b>171.99</b>	<b>572.331</b>	<b>744.321</b>	



























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

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Sewer F-600-MB

Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.65	1.440	0.200	3.355		111.650	115.005
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							8.777		340.959	349.736
Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		205.000	217.500
Item No 30 :- Refilling the excavated trenches ...										
<b>Total Excavation= A=</b>							<b>77.002</b>			
<b>Deduction</b>										
pipe area	1.00			0.785	11.65	0.770	0.770		5.42	
Murrum bedding									3.36	
									8.78	
<b>Total = B</b>							<b>68.22</b>		<b>2134.999</b>	<b>2203.224</b>
CH2338.60	573.850	570.460	570.260				3.590	3.600		
CH2351.70	573.910	570.500	570.300				3.610			
Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
(a) For Lift 0 to 1.5m	1			11.65	2.240	0.100	2.610		47.006	49.616
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			11.65	2.240	1.400	36.534		1152.458	1188.993
(b) For Lift 1.5m to 3.0m	1			11.65	1.840	1.500	32.154		785.730	817.884
(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.200	3.355		9.923	13.278
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(c) For Lift 3.0m to 4.5m	1			11.65	1.440	0.400	6.710		219.613	226.323
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.65	1.440	0.200	3.355		115.005	118.360
Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead							8.777		349.736	358.514
Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			12.50			12.500		217.500	230.000
Item No 30 :- Refilling the excavated trenches ...										
<b>Total Excavation= A=</b>							<b>81.364</b>			
<b>Deduction</b>										
pipe area	1.00			0.785	11.65	0.770	0.770		5.42	
Murrum bedding									3.36	
									8.78	
<b>Total = B</b>							<b>72.59</b>		<b>2203.224</b>	<b>2275.810</b>
F 40										
CH2351.70	573.910	570.500	570.300				3.610	3.805		
CH2379.80	574.350	570.550	570.350				4.000			
Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
(a) For Lift 0 to 1.5m	1			26.65	2.240	0.100	5.970		49.616	55.586



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