



# 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, Zalra, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalra, 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. :-

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

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

Date 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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Nandanvan Colony, RCC Pipe 250mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murum bedding						1.213				
							2.264				
		Net Qty = A - B					25.644		206.703	232.346	
	NC 5 to NC 6										
	CH115.90	575.590	573.990	573.890			1.700				
	CH132.90	575.640	574.130	574.030			1.610	1.655			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.340	1.270	1.500	27.318			
	(b) For Lift 1.5m to 3.0m	1			14.340	0.870	0.155	1.934	153.524	180.842	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.340	1.270	0.000	0.000	25.032	25.032	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.340	1.270	0.000	0.000	16.345	16.345	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.940	0.870	0.100	1.300	9.284	10.584	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.427	17.334	19.761	
	Extra Item 9.4 (b) :-Lowering & Laying of RCC NP3 Class pipe of 250mm Dia	1			15.440			15.440	110.060	125.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						29.251				
	Deduction										
	pipe area	1		0.785	14.940	0.310	0.310	1.127			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.300			
								2.427			
		Net Qty = A - B					26.825		232.346	259.171	



*B. K. Pardeshi*

**B. K. Pardeshi**  
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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim 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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Nandanvan Colony - Meas. SW Pipe

### 11th R A BILL MEASUREMENTS PIPE NANDANVAN COLONY

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>SW PIPE - 150 mm Dia</b>										
	Width of Trench - For Lift 0 to 1.50m- 0.150+0.02+0.02+0.5=0.69m										
	For Lift 1.5 to 3.00m- 0.150+0.02+0.02+0.5+0.4=1.09 m										
	For Lift 3.0 to 4.5m- 0.150+0.5+0.02+0.02+0.4+0.4=1.49m										
	NC 2 to NC 2.1										
	CH0.00	575.460	574.860	574.760			0.700	0.700			
	CH1.50	575.560	574.960	574.860			0.700				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.500	0.740	0.700	0.777	180.842	181.619	
	(b) For Lift 1.5m to 3.0m	1			1.500	0.740	0.000	0.000	56.713	56.713	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.500	0.740	0.100	0.111	10.584	10.695	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.168	19.761	19.929	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			1.500			1.500	0.000	1.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>0.777</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	1.500	0.220	0.220	0.057			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.111			
								0.168			
								<b>Net Qty = A - B</b>	<b>0.609</b>	<b>259.171</b>	<b>259.780</b>
	NC 3 to NC 3.1										
	CH0.00	575.615	575.015	574.915			0.700	0.700			
	CH3.00	575.715	575.115	575.015			0.700				
	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	0.740	0.700	1.554	181.619	183.173	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.000	0.740	0.100	0.222	10.695	10.917	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.336	19.929	20.265	



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Nandanvan Colony 1.5m MH Excavation

### 12<sup>th</sup> RA BILL MEASUREMENTS

#### Branch Sewer At Nandanvan Colony

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.5+0.5=3.20m										
	Breadth for Manhole=3.2*3.2=10.24m										
	NC 1										
	CH32.00	575.120	572.770	572.520			2.600				
	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	0.000	12.058	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.100	8.842	0.000	8.842	
	Item No. : 11 Transportation of earth Transportation charges							6.458	0.000	6.458	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.900			
	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	0.000	0.000			
								6.458			
	Net Qty = A - B							14.442	0.000	14.442	
	NC 2										
	CH51.30	575.460	573.235	572.985			2.475				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.600	4.823	12.058	16.881	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.975	7.837	8.842	16.680	
	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	0.600	4.823	0.000	4.823	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	0.000	2.412	
	Item No. : 11 Transportation of earth Transportation charges							5.948	6.458	12.406	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.895			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.225	0.918			
		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			
								5.948			
	Net Qty = A - B							13.947	14.442	28.389	
	NC 3										
	CH174.60	575.615	573.780	573.530			2.085				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.600	4.823	16.881	21.704	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.585	4.702	16.680	21.382	



For



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**Name of Agency:-** M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)  
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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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Nandanvan Colony 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.500	4.019		4.823	8.842
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.400	3.215		2.412	5.627
	<b>Item No. : 11</b> Transportation of earth Transportation charges							6.575		12.406	18.981
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							16.760			
	<b>Deduction</b>										
	Brick work	1			0.785	2.280	2.280	0.835	3.407		
		1			0.785	1.540	1.540	1.000	1.862		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								6.575			
	<b>Net Qty = A - B</b>							10.185		28.389	38.574



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Nandanvan Colony 1.2 MH Exc.

### 14th R A Bill Measurements Of Chambers Branch Sewer At Nandanvan Colony

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>Branch Sewer At Nandanvan Colony</b>										
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.66m										
	Bredth for chamber upto 2m=2.66*2.66=7.075m										
	NC 4										
	CH99.90	575.600	573.970	573.720			1.880				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.500	8.33	21.70	30.03	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.380	2.11	21.38	23.49	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.950	18.98	21.93	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>10.441</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.31	1.31	1.630	2.20			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>2.95</b>			
	<b>Net Qty = A - B</b>							<b>7.49</b>	<b>38.57</b>	<b>46.07</b>	
	NC 5										
	CH115.90	575.590	573.990	573.740			1.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.500	8.33	30.03	38.37	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.350	1.94	23.49	25.44	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.909	21.93	24.84	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>10.275</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.31	1.31	1.600	2.16			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>2.91</b>			
	<b>Net Qty = A - B</b>							<b>7.37</b>	<b>46.07</b>	<b>53.43</b>	
	NC 6										
	CH132.90	575.640	574.130	573.880			1.760				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.500	8.33	38.37	46.70	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.260	1.44	25.44	26.88	



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		No.	L	B	D	Contents of Arrears	Page No.	Quantity	
1	2	3	4	5	6	7	8	9	10

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Nandanvan Colony 1.2 MH Exc.

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							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.000	0.00	8.84	8.84	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.000	0.00	5.63	5.63	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							2.788	24.84	27.63	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							9.775			
	<b>Deduction</b>										
	Brick work	1			0.785	1.31	1.31	1.510	2.03		
	Brick work								0.00		
	PCC	1			0.785	1.96	1.96	0.250	0.75		
	Murrum bedding								0.00		
	<b>Total (B)</b>							2.79			
					Net Qty = A - B			6.99	53.43	60.42	



Spvdt





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Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
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1	2	3	4	5	6	7	8	9	10

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Nandanvan Colony MANHOLE

### 17th R A BILL MEASUREMENTS

#### Branch Sewer at Nandanvan Colony

**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 M

Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1	CH 32.00	NC 1	575.120	572.770	2.350	-2.650	-8.590	-17.180 ✓
2	CH 51.30	NC 2	575.460	573.235	2.225	-2.775		
3	CH 74.60	NC 3	575.615	573.780	1.835	-3.165		
<b>Total</b>								<b>-17.180</b>

**Item No. : 21** Providing and constructing on sewer BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2 M

Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1	CH 99.90	NC 4	575.600	573.970	1.630	-0.370	-1.260	-2.520 ✓
2	CH 115.90	NC 5	575.590	573.990	1.600	-0.400		
3	CH 132.90	NC 6	575.640	574.130	1.510	-0.490		
<b>Total</b>								<b>-2.520</b>



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GRP DI pipe line for  
SIP for Aurangabad

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Nandanvan Colony Community Note Abstract  
**11th R A BILL MEASUREMENTS**  
**Branch Sewer - Nandanvan Colony**

SR NO	Description	MB/PG	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 21 upto 2 m Full Rate	ITEM 21.1 Rebate	ITEM 23 2-5 m	ITEM 23.1		ITEM 30	EIRL 9.1		EIRL 9.2		EIRL 9.3		EIRL 9.4		
			0-1.5	1.5-3.0								Rebate	m		150mm	250mm	150mm	250mm	150mm	250mm	SW Pipe	RCC Pipes	
1	For Pipe		184.519	56.713	25.032	16.345	11.109	20.556						262.05	7.100	7.100	7.100	125.500	125.500				
2	For Manhole		46.696	26.880	8.842	5.627	27.629		3.000	(2.520)	3.00		(17.180)	60.417									
	<b>Total</b>		<b>231.216</b>	<b>83.594</b>	<b>33.874</b>	<b>21.972</b>	<b>11.109</b>	<b>48.184</b>	<b>3.000</b>	<b>(2.520)</b>	<b>3.00</b>		<b>(17.180)</b>	<b>322.47</b>	<b>7.100</b>	<b>7.100</b>	<b>7.100</b>	<b>125.500</b>	<b>125.500</b>				<b>125.500</b>



*B. K. Pardeshi*  
**B. K. Pardeshi**  
Sectional Engineer

	Total up to Date
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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 Nakhshrawadi (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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12th Padegaon Branch Sewer, RCC Pipe 300mm

### 14th R A BILL MEASUREMENTS PIPE PADEGAON BRANCH SEWER NEAR PUMP HOUSE

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	<b>RCC PIPE - 300 mm Dia (Width of Trench -0.3+0.08+0.08+0.5=0.96m)</b>										
	For Width of Trench Calculation										
	Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.										
	PD 0 to PD 1										
	CH0.00	540.840	540.065	539.915							
	CH23.50	542.890	541.175	541.025			0.925	1.395			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.						1.865				
	(a) For Lift 0 to 1.5m	1			20.840	0.960	1.395	27.909	0.000	27.909	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.840	0.960	0.100	2.001	0.000	2.001	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.363	0.000	4.363	
	Extra Item 9.4 (c) :- Lowering & Laying of RCC NP3 Class pipe of 300mm Dia	1			22.500			22.500		22.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							27.909			
	<b>Deduction</b>										
	pipe area	1		0.785	20.840	0.380	0.380	2.362			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.001			
								4.363			
	PD 1 to PD 2										
	CH23.50	542.890	541.775	541.625							
	CH42.00	543.690	541.935	541.785			1.265	1.585			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.						1.905				
	(a) For Lift 0 to 1.5m	1			15.840	0.960	1.085	16.499	27.909	44.408	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.840	0.960	0.315	4.790	0.000	4.790	
	(b) For Lift 1.5m to 3.0m	1			15.840	0.960	0.085	1.293	0.000	1.293	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.840	0.960	0.100	1.521	0.000	1.521	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.440	0.960	0.100	1.578	2.001	3.579	



*B. K. Tardeshi*  
Sectional Engineer





# 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).

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11th Padegaon Branch Sewer, RCC Pipe 300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	CH68.90	545.865	543.390	543.240			2.625				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.740	1.360	0.590	8.618		59.887	68.505
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.740	1.360	0.810	11.831		9.950	21.781
	(b) For Lift 1.5m to 3.0m	1			10.740	0.960	0.290	2.990		5.528	8.518
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.740	1.360	0.100	1.461		2.995	4.456
	(b) For Lift 1.5m to 3.0m	1			10.740	0.960	0.409	4.217		0.000	4.217
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.340	0.960	0.100	1.089		4.677	5.766
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.374		10.200	12.574
	Extra Item 9.4 (c) :-Lowering & Laying of RCC NP3 Class pipe of 300mm Dia	1			11.840			11.840		51.380	63.220
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							29.117			
	Deduction										
	pipe area	1		0.785	11.340	0.380	0.380	1.285			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.089			
								2.374			
								26.742		68.160	94.903
	PD 5 to PD 6										
	CH74.40	546.040	545.440	545.290			0.750				
	CH82.90	546.500	545.530	545.380			1.120	0.935			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.840	1.360	0.735	5.838		68.505	74.343
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.840	1.360	0.100	0.794		21.781	22.575
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.840	1.360	0.100	0.794		4.456	5.250
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.440	0.960	0.100	0.618		5.766	6.384



*Signature*





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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12th Padegaon Branch Sewer, RCC Pipe 300mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	soling										
	PCC						0.000				
	Murram bedding						0.000				
							0.280				
							0.548				
	PD 4 to PD 4.1	Net Qty = A - B						2.229	100.981	103.210	
	CH0.00										
	CH3.00	545.865	544.765	544.615			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.	545.865	544.765	544.615			1.250				
	(a) For Lift 0 to 1.5m	1			2.150	0.815	0.590	1.034	75.500	76.534	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.150	0.815	0.560	0.981	23.501	24.482	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.150	0.815	0.100	0.175	5.944	6.119	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.450	0.815	0.100	0.200	6.664	6.864	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						0.391		14.470	14.861	
	Item No.13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			2.700		2.700		3.940	6.640	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						2.190				
	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			
	DWC PIPE - 250 mm Dia	Net Qty = A - B						1.800	103.210	105.010	
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.5=0.750m										
	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										
	PD 6 to PD 6.1										
	CH0.00	546.500	545.530	545.380			1.120				
	CH8.40	546.980	545.700	545.550			1.430	1.275			



*B. K. Pardeshi*  
Sectional Engineer









# 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 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	B	D	Contents of Arrears	Page No.	Quantity	

Page 1

11th Padegaon Branch Sewer, 0.9 MH Exc.

### 11th RA BILL MEASUREMENTS OF CHEMBERS PADEGAON BRANCH SEWER NEAR PUMP HOUSE

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth 0.9+0.5+0.3+0.3=2m For Area = 2 X 2=4m PD 6										
	CH82.90	546.500	545.530	545.280		1.220					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.020	3.203	0.000	3.203	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	0.000	0.314	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	0.000	0.314	
	Item No. : 11 Transportation of earth Transportation charges							1.502	0.000	1.502	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						3.831				
	<b>Deduction</b>										
	Brick work	1		0.785	1.160	1.160	0.970	1.025			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.502			
	<b>Net Qty = A - B</b>							2.329	0.000	2.329	



*B. K. Patil*  
Sectional Engineer



# 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 for Aurangabad City.

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12th Padegaon Branch Sewer 1.2 MH Exc.

### 12th R A BILL MEASUREMENTS OF CHEMBERS PADEGAON BRANCH SEWER NEAR PUMP HOUSE

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>BRANCH SEWER AT PADEGAON</b>										
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.66m										
	Bredth for chamber upto 2m=2.66*2.66=7.075m										
	PD 1										
	CH23.50	542.890	541.175	540.925			1.965				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.500	8.33	3.20	11.53	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.465	2.58	0.00	2.58	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.064	1.50	4.57	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>10.913</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.31	1.31	1.715	2.31			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>3.06</b>			
	<b>Net Qty = A - B</b>							<b>7.85</b>	<b>2.33</b>	<b>10.18</b>	
	PD 2										
	CH42.00	543.690	541.935	541.685			2.005				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.085	6.03	11.53	17.56	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.000	0.00	2.58	2.58	
	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	0.315	1.75	0.31	2.06	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.505	2.80	0.00	2.80	
	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	0.100	0.56	0.31	0.87	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.118	4.57	7.68	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>11.136</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.31	1.31	1.755	2.36			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			



*For AP*



# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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11th Padegaon Branch Sewer 1.2 MH Exc.

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	<b>Total (B)</b>						3.12			
	<b>PD 3</b>						<b>Net Qty = A - B</b>			
	<b>CH55.50</b>	544.613	542.790	542.540			8.02	10.18	18.20	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc					2.073				
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.050	5.83	17.56	23.29
	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	1.94	2.06	4.01
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.573	3.18	2.80	5.99
	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	0.100	0.56	0.87	1.42
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.210	7.68	10.89
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation(A)=</b>									
	<b>Deduction</b>						11.513			
	Brick work	1		0.785	1.31	1.31	1.823	2.46		
	Brick work									
	PCC	1		0.785	1.96	1.96	0.250	0.75		
	Murrum bedding									
	<b>Total (B)</b>						0.00			
	<b>PD 4</b>						<b>Net Qty = A - B</b>			
	<b>CH68.90</b>	545.865	543.390	543.140		2.725	8.30	18.20	26.50	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc									
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.590	3.28	23.39	26.67
	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	0.810	4.50	4.01	8.51
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.290	1.61	5.99	7.60
	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	0.100	0.56	1.42	1.98
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.935	5.19	0.00	5.19
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.088	10.89	14.98
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation(A)=</b>									
	<b>Deduction</b>						15.134			
	Brick work	1		0.785	1.31	1.31	2.475	3.33		
	Brick work									
	PCC	1		0.785	1.96	1.96	0.250	0.75		



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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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	B	D	contains Arrears	Page No.	Quantity	

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11th Padegaon Branch Sewer 1.2 MH Exc.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murrum bedding							0.00			
	<b>Total (B)</b>							4.09			
		<b>Net Qty = A - B</b>						<b>11.05</b>	<b>26.50</b>	<b>37.54</b>	
	PD 5										
	CH74.40	546.040	545.040	544.790			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.500	2.78	26.67	29.44	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.000	0.00	2.58	2.58	
	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	0.400	2.22	8.51	10.73	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.000	0.00	7.60	7.60	
	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	0.350	1.94	1.98	3.92	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.000	0.00	5.19	5.19	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.101	14.98	17.08	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation (A)=</b>							<b>6.942</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.31	1.31	1.000	1.35			
	Brick work							0.00			
	PCC	1		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	<b>Total (B)</b>							<b>2.10</b>			
		<b>Net Qty = A - B</b>						<b>4.84</b>	<b>37.54</b>	<b>42.39</b>	



*B. K. Pardeshi*  
Sectional Engineer



# 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. :- **156**  
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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	B	D	Contents of Arrears	Page No.	Quantity	
1	2	3	4	5	6	7	8	9	10

1 of 1

17th Padegaon Branch Sewer, Manhole Details

<b>17th RA BILL MEASUREMENTS</b>								
<b>Branch Sewer at PADEGAON BRANCH SEWER NEAR PUMP HOUSE</b>								
Item No. : 21 Providing and constructing on sewer BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M								
Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2.0 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1	CH 23.50	PD 1	542.890	541.175	1.715	-0.285	-1.232	-2.464
2	CH 42.00	PD 2	543.690	541.935	1.755	-0.245		
3	CH 55.50	PD 3	544.613	542.790	1.823	-0.177		
4	CH 68.90	PD 4	545.865	543.390	2.475	0.475		
5	CH 74.40	PD 5	546.040	545.040	1.000	-1.000		
Total								-2.464

Extra Item No. : 02 Providing and constructing on sewer BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M								
Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1	CH 82.90	PD 6	546.500	545.530	0.970	-0.530	-0.530	-1.767
Total								-1.767



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SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7	ITEM 11	ITEM 12		ITEM 13		ITEM 30	EIRL 2	EIRL 2.1	EIRL 2.2	EIRL 9.3	EIRL 9.4	Total up to Date
			0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0			250mm	315mm	250mm	315mm							
1	For Pipe		86.312		24.482	8.518	6.119	4.217	7.697	16.238	11.600	6.640	11.600	6.640	113.411				70.160	70.160	
2	For Manhole		29.445	2.583	10.728	7.598	3.924	5.193	17.083	17.083	6.640	6.640	6.640	6.640	42.386	1.000	(1.767)		70.160	70.160	
	Total		115.757	2.583	35.210	16.116	10.043	9.410	7.697	33.321	11.600	6.640	11.600	6.640	155.797	1.000	(1.767)		70.160	70.160	

12th Padegaon Branch Sewer Quantity Node Abstract

12th R A BILL MEASUREMENTS

Branch Sewer at PADEGAON BRANCH SEWER NEAR PUMP HOUSE



SPWP