



# 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 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.

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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

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Uttam Nagar Chamber Excavtion

Date	Particulars of work	DETAILS					Content of arrears	Last measurmen		Total Upto Date Quantity	
		No			L	B		D	Page		Qty.
		GL	IL	EX.L							
	Murum bedding						0.000				
	<b>Total (B)</b>						<b>1.745</b>				
		<b>Net Qty = A - B</b>					<b>2.808</b>	<b>2.562</b>	<b>5.370</b>		
	<b>UN6.1</b>	<b>MH 0.9mX0.6m</b>									
	<b>CH3.00</b>	580.640	579.980	579.730		0.910					
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	<b>(a) For Lift 0 to 1.5m</b>	1			2.000	1.700	0.910	3.094	9.483	12.577	
	<b>Item No. : 11</b> Transportation of earth Transportation charges						1.536	4.113	5.650		
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.094</b>				
	<b>Deduction</b>										
	Brick work	1		1.000	1.400	1.100	0.660	1.016			
	soling							0.000			
	PCC	1		1.000	1.600	1.300	0.250	0.520			
	Murum bedding							0.000			
	<b>Total (B)</b>						<b>1.536</b>				
		<b>Net Qty = A - B</b>					<b>1.558</b>	<b>5.370</b>	<b>6.927</b>		



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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

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Uttam Nagar Chamber Details

### 11th R A BILL MEASUREMENTS CHAMBER DETAILS UTTAM NAGAR

SR NO	CHAMBER NUMBER	CHAINAGE	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm	
			No					
			GL	IL	DEPTH			
1	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 etc., complete							
1	UN7	CH57.60	580.640	579.440	1.200	1.500	-0.300	-1.000
	<b>TOTAL</b>						<b>-0.300</b>	<b>-1.000</b>

2	Extra Item No. :3 Providing and constructing on sewer.BBM manhole 0.9 m X 0.6 m Square and up to a depth of 1.5 M etc., complete							
1	UN6	CH50.00	580.590	579.390	1.200	1.5	-0.300	-3.800
2	UN6.1	CH3.00	580.640	579.980	0.660	1.5	-0.840	
	<b>Total</b>						<b>-1.140</b>	<b>-3.800</b>



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Pipe Lying MB-Saujanya Nagar (New Balaji Nagar)

### 14th RA BILL MEASUREMENTS SW PIPE SAUJANYA NAGAR-02

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 - 200 mm Dia</b>										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4 =1.14m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.02+0.02+0.4+0.4 =1.54m										
	<b>SN/2/2/4 TO SN/2/2/5</b>										
	CH43.80	585.923	584.733	584.633			1.290	1.310			
	CH49.15	586.113	584.883	584.783			1.330				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			3.650	0.740	1.310	3.538	0.000	3.538	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.950	0.740	0.100	0.292	0.000	0.292	
	Item No. : 11 Transportation of earth Transportation							0.442	0.000	0.442	
	Extra Item No.9.2(c):- Lowering & Laying of SW pipe of 200mm Dia	1			4.450			4.450	0.000	4.450	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							3.538			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	3.950	0.220	0.220	0.15			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.29			
								0.44			
	<b>Net Qty = A - B</b>							3.096	0.000	3.096	
	<b>SN/2/2/5 TO SN/2/2/6</b>										
	CH49.15	586.113	584.883	584.783			1.330	1.220			
	CH64.70	586.233	585.223	585.123			1.110				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			13.550	0.740	1.220	12.233	3.538	15.771	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.150	0.740	0.100	1.047	0.292	1.339	
	Item No. : 11 Transportation of earth Transportation							1.585	0.442	2.027	





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Pipe Lying MB-Saujanya Nagar (New Balaji Nagar)

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item No.9.2(c):- Lowering & Laying of SW pipe of 200mm Dia	1			14.650			14.650		4.450	19.100
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>12.233</b>			
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1.00		0.785	14.150	0.220	0.220	0.54			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.05			
								1.58			
	<b>Net Qty = A - B</b>							<b>10.648</b>		<b>3.096</b>	<b>13.744</b>
	<b>SN/2/2/6 TO SN/2/2/7</b>										
	CH64.70	586.233	585.223	585.123				1.110			
	CH81.00	586.403	585.533	585.433				0.970			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			14.300	0.740	1.040	11.005		15.771	26.777
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.900	0.740	0.100	1.103		1.339	2.442
	Item No. : 11 Transportation of earth Transportation							1.669		2.027	3.696
	Extra Item No.9.2(c):- Lowering & Laying of SW pipe of 200mm Dia	1			15.400			15.400		19.100	34.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>11.005</b>			
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1.00		0.785	14.900	0.220	0.220	0.57			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.10			
								1.67			
	<b>Net Qty = A - B</b>							<b>9.337</b>		<b>13.744</b>	<b>23.081</b>
	<b>SN/2/2/7 TO SN/2/2/8</b>										
	CH81.00	586.403	585.533	585.433				0.970			
	CH94.30	586.443	585.683	585.583				0.860			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			11.300	0.740	0.915	7.651		26.777	34.428
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.900	0.740	0.100	0.881		2.442	3.323
	Item No. : 11 Transportation of earth Transportation							1.333		3.696	5.029



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Saujanya Nagar (New Balaji Nagar) Meas. Branch

### 14th RA BILL MEASUREMENTS DWC PIPE SAUJANYA NAGAR-02

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 (Connection)</b>										
	Width of Trench - For Lift 0 to 1.50m- 0.150+0.02+0.02+0.5=0.690m										
	For Lift 1.5 to 3.00m- 0.150+0.02+0.02+0.5+0.4= 1.090m										
	For Lift 3.0 to 4.5m- 0.150+0.5+0.02+0.02+0.4+0.4 =1.490m										
	<b>SN/2/2/4 TO SN/2/2/4/1</b>										
	CH0.00	585.923	585.233	585.133			0.790	0.820			
	CH3.50	586.023	585.273	585.173			0.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.800	0.690	0.820	1.018	34.428	35.446	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.048	5.029	5.076	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			2.600			2.600	0.000	2.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>1.018</b>			
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	2.100	0.170	0.170	0.048			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.000			
								<b>0.048</b>			
	<b>Net Qty = A - B</b>							<b>0.971</b>	<b>29.399</b>	<b>30.370</b>	
	<b>SN/2/2/6 TO SN/2/2/6/1</b>										
	CH0.00	586.233	585.723	585.623			0.610	0.625			
	CH3.05	586.320	585.780	585.680			0.640				
	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	0.690	0.625	0.647	35.446	36.093	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.041	5.076	5.117	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			2.300			2.300	2.600	4.900	



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Saujanya Nagar (New Balaji Nagar) Meas. Branch

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 ...										
	<b>Total Excavation=</b>						<b>0.647</b>				
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	1.800	0.170	0.170	0.041			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.000			
							<b>0.041</b>				
							<b>0.606</b>		<b>30.370</b>	<b>30.976</b>	
	SN/2/2/6 TO SN/2/2/6/2										
	CH0.00	586.233	585.623	585.523			0.710				
	CH3.00	586.300	585.780	585.680			0.620	0.665			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.450	0.690	0.665	0.665	36.093	36.758	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.040	5.117	5.157	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			2.250			2.250	4.900	7.150	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>0.665</b>				
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	1.750	0.170	0.170	0.040			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.000			
							<b>0.040</b>				
							<b>0.626</b>		<b>30.976</b>	<b>31.602</b>	
	SN/2/2/6 TO SN/2/2/6/3										
	CH0.00	586.233	585.723	585.623			0.610				
	CH4.30	586.320	585.850	585.750			0.570	0.590			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.750	0.690	0.590	1.120	36.758	37.878	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.069	5.157	5.226	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			3.550			3.550	7.150	10.700	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>1.120</b>				



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Saujanya Nagar (New Balaji Nagar) Meas. Branch

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	3.050	0.170	0.170	0.069			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.000			
								0.069			
		Net Qty = A - B						1.050		31.602	32.652
	SN/2/2/6 TO SN/2/2/6/4										
	CH0.00	586.233	585.483	585.383			0.850	0.775			
	CH1.60	586.250	585.650	585.550			0.700				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.000	0.690	0.775	0.000	37.878	37.878	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.007	5.226	5.233	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			0.850			0.850	10.700	11.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.000			
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	0.300	0.170	0.170	0.007			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.000			
								0.007			
		Net Qty = A - B						0.000		32.652	32.652
	SN/2/2/6 TO SN/2/2/6/5										
	CH0.00	586.233	585.823	585.723			0.510	0.640			
	CH2.00	586.320	585.650	585.550			0.770				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.450	0.690	0.640	0.199	37.878	38.077	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.017	5.233	5.250	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			1.250			1.250	11.550	12.800	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.199			
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	0.750	0.170	0.170	0.017			
	soling							0.000			



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Saujanya Nagar (New Balaji Nagar) Meas. Branch

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			
	Murram bedding							0.000			
								0.017			
		Net Qty = A - B						0.182	32.652	32.834	
	SN/2/2/7 TO SN/2/2/7/1										
	CH0.00	586.403	585.933	585.833			0.570	0.585			
	CH3.60	586.500	586.000	585.900			0.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			2.050	0.690	0.585	0.827	38.077	38.904	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.053	5.250	5.303	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			2.850			2.850	12.800	15.650	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.827			
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	2.350	0.170	0.170	0.053			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.000			
								0.053			
		Net Qty = A - B						0.774	32.834	33.608	
	SN/2/2/7 TO SN/2/2/7/2										
	CH0.00	586.403	585.983	585.883			0.520	0.510			
	CH3.60	586.500	586.100	586.000			0.500				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			2.050	0.690	0.510	0.721	38.904	39.626	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.053	5.303	5.356	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			2.850			2.850	15.650	18.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.721			
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	2.350	0.170	0.170	0.053			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.000			
								0.053			
		Net Qty = A - B						0.668	33.608	34.276	



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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

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Saujanya Nagar (New Balaji Nagar) Meas. Branch

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SN/2/2/8 TO SN/2/2/8/1										
	CH0.00	586.443	585.983	585.883			0.560	0.530			
	CH3.00	586.500	586.100	586.000			0.500				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.690	0.530	0.841	39.626	40.467	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.300	0.690	0.000	0.000	3.323	3.323	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.052	5.356	5.409	
	Extra Item No. 9.2(b) :- Lowering & Laying of Stoneware pipe of 150mm Dia	1			2.550			2.550	18.500	21.050	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.841			
	Deduction of 150mm dia pipe										
	pipe area	1.000		0.785	2.300	0.170	0.170	0.052			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.000			
								0.052			
								<b>0.789</b>	<b>34.276</b>	<b>35.065</b>	
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.021			0.05		0.067	



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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

Book No. :-

Page No. :- **037**

Page 1

Manhole MB-Saujanya Nagar (New Balaji Nagar)

### 11th R A BILL MEASUREMENTS SW CHAMBER SAUJANYA NAGAR-02

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 - 200mm Dia</b>										
	Excavation of Chamber - For 0.9 Dia. chamber up to Depth of 1.5 mt.- 0.9+0.5+0.3+0.3=2.0m										
	Area for chamber up to Depth of 1.5m= 2 * 2=4m										
	SN/2/2/4/1										
	CH3.50	586.023	585.273	585.023			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.000	3.140	0.000	3.140	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.270	0.000	1.270	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.140			
	Deduction of 250mm dia pipe										
	Brick work	1.00		0.785	1.16	1.16	0.750	0.792			
	soling							0.000			
	PCC	1.00		0.785	1.56	1.56	0.25	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.270			
								<b>Net Qty = A - B</b>			
								1.870	0.000	1.870	
	SN/2/2/5										
	CH49.15	586.113	584.883	584.633			1.480				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.480	4.647	3.140	7.787	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.777	1.270	3.047	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							4.647			
	Deduction of 250mm dia pipe										
	Brick work	1.00		0.785	1.16	1.16	1.230	1.299			
	soling							0.000			
	PCC	1.00		0.785	1.56	1.56	0.25	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.777			
								<b>Net Qty = A - B</b>			
								2.870	1.870	4.741	
	SN/2/2/6										
	CH64.70	586.233	585.223	584.973			1.260				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										



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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 Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission

Book No. :- **033**  
Page No. :-

Page 2

Manhole MB-Saujanya Nagar (New Balaji 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							
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.260	3.956		7.787	11.744
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.544		3.047	4.591
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.956</b>			
	<b>Deduction of 250mm dia pipe</b>										
	Brick work	1.00		0.785	1.16	1.16	1.010	1.067			
	soling							0.000			
	PCC	1.00		0.785	1.56	1.56	0.25	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.544</b>			
								<b>2.412</b>		<b>4.741</b>	<b>7.152</b>
	<b>Net Qty = A - B</b>										
	SN/2/2/7										
	CH81.00	586.403	585.533	585.283			1.120				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.120	3.517		11.744	15.260
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.397		4.591	5.988
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.517</b>			
	<b>Deduction of 250mm dia pipe</b>										
	Brick work	1.00		0.785	1.16	1.16	0.870	0.919			
	soling							0.000			
	PCC	1.00		0.785	1.56	1.56	0.25	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.397</b>			
								<b>2.120</b>		<b>7.152</b>	<b>9.273</b>
	<b>Net Qty = A - B</b>										
	SN/2/2/8										
	CH94.30	586.443	585.683	585.433			1.010				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.010	3.171		15.260	18.432
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.280		5.988	7.268
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.171</b>			
	<b>Deduction of 250mm dia pipe</b>										
	Brick work	1.00		0.785	1.16	1.16	0.760	0.803			
	soling							0.000			
	PCC	1.00		0.785	1.56	1.56	0.25	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.280</b>			
								<b>1.891</b>		<b>9.273</b>	<b>11.164</b>
	<b>Net Qty = A - B</b>										



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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 Nakshirawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission

Book No. :-

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Page 1 of 3

Balaji Nagar-6(Hanuman Galli)Meas. SW Pipe

### 1<sup>st</sup> RA BILL MEASUREMENTS SW PIPE BALAJI NAGAR-06(Hanuman Galli)

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 - 250 mm Dia</b>										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.790										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4=1.190m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0.4=1.590m										
	<b>BNR5 TO BNR5.1</b>	Branch to Balaji Nagar-400mm dai at CH 84.95 From MH No. BNR-05									
	CH0.00	582.270	581.155	581.055			1.215	1.258			
	CH7.30	582.370	581.170	581.070			1.300				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.450	0.790	1.058	4.553	0.000	4.553	
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.450	0.790	0.200	0.861	0.000	0.861	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.750	0.790	0.100	0.454	0.000	0.454	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading &							0.783	0.000	0.783	
	<b>Extra Item No. 9.2 (d):-</b> Lowering & Laying of SWG pipe of 250mm Dia	1			6.250			6.250	0.000	6.250	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							5.414			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	5.750	0.270	0.270	0.329			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.454			
								0.783			
	<b>Net Qty = A - B</b>							4.631	0.000	4.631	
	<b>BNR5.1 TO BNR5.2</b>										
	CH7.30	582.370	581.170	581.070			1.300	1.300			
	CH17.20	582.530	581.330	581.230			1.300				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.900	0.790	1.100	6.865	4.553	11.418	



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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

Book No. :-

Page No. :-

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Page 2 of 3

Balaji Nagar-6(Hanuman Galli)Meas. SW Pipe

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. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.900	0.790	0.200	1.248		0.861	2.109
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.500	0.790	0.100	0.672		0.454	1.126
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.158		0.783	1.941
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			9.000			9.000		6.250	15.250
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>8.113</b>			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	8.500	0.270	0.270	0.486			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.672			
								1.158			
								<b>6.955</b>		<b>4.631</b>	<b>11.586</b>
	<b>BNR5.2 TO BNR5.3</b>										
	CH17.20	582.530	581.330	581.230			1.300				
	CH27.00	582.790	581.640	581.540			1.250	1.275			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.800	0.790	1.075	6.624		11.418	18.042
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.800	0.790	0.200	1.232		2.109	3.342
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.400	0.790	0.100	0.664		1.126	1.789
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.144		1.941	3.086
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			8.900			8.900		15.250	24.150
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>7.857</b>			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	8.400	0.270	0.270	0.481			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.664			



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :- **C44**  
Page No. :-

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

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

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Balaji Nagar-6(Hanuman Galli)Meas. SW Pipe

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
							1.144				
							6.712	11.586	18.298		
							Net Qty = A - B				
	<b>BNR5.3 TO BNR5.4</b>										
	CH27.00	582.790	581.640	581.540			1.250	1.150			
	CH31.30	582.870	581.920	581.820			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.790	0.950	1.726	18.042	19.768	
	Item No. 4 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			2.300	0.790	0.200	0.363	3.342	3.705	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			2.900	0.790	0.100	0.229	1.789	2.018	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.395	3.086	3.481	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			3.400			3.400	24.150	27.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						2.090				
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	2.900	0.270	0.270	0.166			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.229			
							0.395				
							Net Qty = A - B				
							1.694	18.298	19.993		
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.027				0.027		



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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

Book No. **045**  
Page No.

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Balaji Nagar-6(Hanuman Galli)Chamber Excavation

### 11th RA BILL MEASUREMENTS OF CHAMBERS

#### BALAJI NAGAR-06(Hanuman Galli)

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										
	Area for chamber up to 1.5m=2 X 2=4m										
	<b>BNR5.1</b>										
	CH7.30	582.370	581.170	580.920			1.450				
	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	1.250	3.925	0.000	3.925	
	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	0.200	0.628	0.000	0.628	
	Item No. : 11 Transportation of earth Transportation charges							1.745	0.000	1.745	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>4.553</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.160	1.160	1.200	1.268			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.745</b>			
		<b>Net Qty = A - B</b>							<b>2.808</b>	<b>0.000</b>	<b>2.808</b>
	<b>BNR5.2</b>										
	CH17.20	582.530	581.330	581.080			1.450				
	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	1.250	3.925	3.925	7.850	
	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	0.200	0.628	0.628	1.256	
	Item No. : 11 Transportation of earth Transportation charges							1.745	1.745	3.490	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>4.553</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.160	1.160	1.200	1.268			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.745</b>			



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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 Ah, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CHDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CHDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- **043**  
Page No. :-

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

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Balaji Nagar-6(Hanuman Galli)Chamber Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	HL	EX.L							
		Net Qty = A - B					2.808		2.808	5.616	
	<b>BNR5.3</b>										
	<b>CH27.00</b>	582.790	581.640	581.390			1.400				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768	7.850	11.618	
	<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	4.000	0.200	0.628	1.256	1.884	
	<b>Item No. : 11</b> Transportation of earth Transportation charges							1.692	3.490	5.183	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						4.396				
	<b>Deduction</b>										
	Brick work	1		0.785	1.160	1.160	1.150	1.215			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.692			
		Net Qty = A - B					2.704		5.616	8.319	
	<b>BNR5.4</b>										
	<b>CH31.30</b>	582.870	581.920	581.670			1.200				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.000	3.140	11.618	14.758	
	<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	4.000	0.200	0.628	1.884	2.512	
	<b>Item No. : 11</b> Transportation of earth Transportation charges							1.481	5.183	6.664	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.768			
	<b>Deduction</b>										
	Brick work	1		0.785	1.160	1.160	0.950	1.003			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	<b>Total (B)</b>							1.481			
		Net Qty = A - B					2.287		8.319	10.606	



*[Handwritten Signature]*







# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

Book No. :-

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1 of 11

Shivshankar Colony-04 - SW Pipe

### 11th R A BILL MEASUREMENTS PIPE SHIVSHANKAR COLONY-04

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	<b>SW PIPE - 200 mm Dia</b>										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4=1.14 m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.02+0.02+0.4+0.4=1.54m										
	<b>SC 1 TO SC 2</b>										
	CH0.00	579.120	578.430	578.330			0.790	0.920			
	CH17.50	579.620	578.670	578.570			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.740	0.250	2.868	0.000	2.868	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.740	0.600	6.882	0.000	6.882	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.500	0.740	0.070	0.803	0.000	0.803	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.100	0.740	0.100	1.191	0.000	1.191	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.803	0.000	1.803	
	Extra Item 9.2 (c) :- Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			16.600			16.600		16.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							10.552			
	<b>Deduction</b>										
	pipe area	1		0.785	16.100	0.220	0.220	0.612			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.191			
								1.803			
	<b>Net Qty = A - B</b>							8.749	0.000	8.749	
	<b>SC 2 TO SC 3</b>										
	CH17.50	579.620	578.670	578.570			1.050	1.045			
	CH25.40	579.930	578.990	578.890			1.040				



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