



# 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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Ambedkar Nagar Part-A,B,C,D,E and F - Meas.Chamber

Date	Particulars of work	DETAILS						Content of arrears	Last measurement Page	Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D			
	<b>Total (B)</b>							1.395		
								1.870	44.479	46.349
	<b>ANF 2</b>									
	<b>CH17.45</b>	604.990	604.290	604.040				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			0.785	4.000		0.950	2.983	47.759
	Item No. : 11 Transportation of earth Transportation charges							1.294	33.627	50.742
	Item No. 30 :- Refilling the excavated trenches ...									34.921
	<b>Total Excavation(A)=</b>							2.983		
	<b>Deduction</b>									
	Brick work	1			0.785	1.200		0.700		
	soling									
	PCC	1			0.785	1.600		0.250		
	Murrum bedding									
	<b>Total (B)</b>							0.000		
								1.294		
	<b>ANF 3</b>									
	<b>CH25.45</b>	605.180	604.530	604.280				0.900	46.349	48.038
	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		0.900	2.826	50.742
	Item No. : 11 Transportation of earth Transportation charges							1.237	34.921	53.568
	Item No. 30 :- Refilling the excavated trenches ...									36.158
	<b>Total Excavation(A)=</b>							2.826		
	<b>Deduction</b>									
	Brick work	1			0.785	1.200		0.650		
	soling									
	PCC	1			0.785	1.600		0.250		
	Murrum bedding									
	<b>Total (B)</b>							0.000		
								1.237		
	<b>ANF 4</b>									
	<b>CH32.25</b>	605.270	604.670	604.420				0.850	48.038	49.627
	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		0.850	2.669	53.568
	Item No. : 11 Transportation of earth Transportation charges							1.181	36.158	56.237
	Item No. 30 :- Refilling the excavated trenches ...									37.338
	<b>Total Excavation(A)=</b>							2.669		
	<b>Deduction</b>									
	Brick work	1			0.785	1.200		0.600		
	soling									
	PCC	1			0.785	1.600		0.250		



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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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Ambedkar Nagar Part-A,B,C,D,E and F - Meas.Chamber

Date of Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Murram bedding										
	<b>Total (B)</b>						0.000				
							<b>1.181</b>				
							<b>Net Qty = A - B</b>				
	<b>ANF 5</b>						<b>1.488</b>		<b>49.627</b>	<b>51.115</b>	
	CH45.60	605.460	604.910	604.660			0.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.800	2.512	56.237	58.749	
	Item No. : 11 Transportation of earth Transportation charges							1.124	37.338	38.462	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>2.512</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.550	0.622			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>						<b>1.124</b>				
							<b>Net Qty = A - B</b>		<b>51.115</b>	<b>52.503</b>	
	<b>ANF 6</b>										
	CH48.00	605.600	604.950	604.700			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.900	2.826	58.749	61.575	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000	23.738	23.738	
	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	0.000	0.000	8.478	8.478	
	Item No. : 11 Transportation of earth Transportation charges							1.237	38.462	39.700	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>2.826</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.650	0.735			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>						<b>1.237</b>				
							<b>Net Qty = A - B</b>		<b>52.503</b>	<b>54.092</b>	



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Page No. :- 162

**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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Ambedkar Nagar Part-A,B,C,D,E and F - Manhole Details

<b>14th RA BILL MEASUREMENTS</b>								
<b>Branch Sewer at AMBEDKAR NAGAR PART- A TO F</b>								
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)
<b>A AMBEDKAR NAGAR PART- A TO F</b>								
1	CH 12.00	ANA 1	601.870	600.820	1.050	-0.450	-17.380	-57.933
2	CH 10.00	ANB 1	603.150	601.900	1.250	-0.250		
3	CH 36.40	ANB 2	603.730	602.530	1.200	-0.300		
4	CH 44.10	ANB 3	603.970	603.020	0.950	-0.550		
5	CH 9.10	ANB 2.1	603.480	602.600	0.880	-0.620		
6	CH 18.10	ANB 2.2	603.550	602.650	0.900	-0.600		
7	CH 27.50	ANB 2.3	603.570	602.720	0.850	-0.650		
8	CH 34.00	ANB 2.4	603.650	602.850	0.800	-0.700		
9	CH 9.10	ANC 1	602.910	602.010	0.900	-0.600		
10	CH 21.10	ANC 2	602.920	602.070	0.850	-0.650		
11	CH 23.50	ANC 3	603.015	602.115	0.900	-0.600		
12	CH 35.80	ANC 4	603.150	602.250	0.900	-0.600		
13	CH 43.60	ANC 5	603.200	602.400	0.800	-0.700		
14	CH 49.70	ANC 6	603.340	602.490	0.850	-0.650		
15	CH 61.00	ANC 7	603.400	602.550	0.850	-0.650		
16	CH 14.50	AND 1	604.910	604.010	0.900	-0.600		
17	CH 30.00	AND 2	604.740	604.190	0.550	-0.950		
18	CH 39.50	AND 3	604.990	604.390	0.600	-0.900		
19	CH 12.80	ANE 1	605.450	604.350	1.100	-0.400		
20	CH 20.20	ANE 2	605.670	604.470	1.200	-0.300		
21	CH 37.70	ANE 3	605.400	604.500	0.900	-0.600		
22	CH 9.75	ANF 1	604.970	604.180	0.790	-0.710		
23	CH 17.45	ANF 2	604.990	604.290	0.700	-0.800		
24	CH 25.45	ANF 3	605.180	604.530	0.650	-0.850		
25	CH 32.25	ANF 4	605.270	604.670	0.600	-0.900		
26	CH 45.60	ANF 5	605.460	604.910	0.550	-0.950		
27	CH 48.00	ANF 6	605.600	604.950	0.650	-0.850		
<b>Total</b>								<b>-57.933</b>



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**11th R A BILL MEASUREMENTS**

**Branch Sewer at AMBEDKAR NAGAR PART-A TO F**

SR NO	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7	ITEM 11	ITEM 12		ITEM 13	ITEM 30	EIRL 2	
			0-1.5	124.192	0-1.5	39.543	0-1.5	17.419			250mm	250mm			Full Rate	Rebate
1	For Pipe								18.713	30.954	263.500	263.500		150.200		
2	For Manhole							8.478		39.700				54.092	27.000	(57.933)
	<b>Total</b>							<b>25.897</b>	<b>18.713</b>	<b>70.653</b>	<b>263.500</b>	<b>263.500</b>		<b>204.292</b>	<b>27.000</b>	<b>(57.933)</b>



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Bharatmata Nagar Measurement-400mm

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### 11th R A BILL MEASUREMENTS Bharatmata Nagar

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No						Page	Quantity		
		GL	IL	EXL	L	B					D
	<b>400mm Dia-At Bharatmata Nagar</b>										
	<b>400 mm Dia-Bharatmata Nagar (Width of Trench -0.400+0.15+0.15+0.5=1.20m)</b>										
	For Depth					0.0m to 1.5m	0.0m to 3.0m	0.0m to 4.5m			
	For Width of Trench Calculation Outer dia of Pipe + 0.50 for Bottom and Add 0.4 for Subsequent upper Lifts.					1.200	1.600	2.000			
							1.200	1.600			
								1.200			
	<b>BMN. 0</b>										
	CH10.00	557.544	555.854	555.654			1.89	1.910			
	CH10.65	557.624	555.894	555.694			1.93				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1				7.950	1.600	1.050	13.356	0.000	13.356
	(b) For Lift 1.5m to 3.0m	1				7.950	1.200	0.410	3.911	0.000	3.911
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1				7.950	1.600	0.300	3.816	0.000	3.816
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1				7.950	1.600	0.150	1.908	0.000	1.908
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1				7.950	1.200	0.200	1.908	0.000	1.908
	<b>Item No. : 11</b> Transportation of earth Transportation charges including								3.796	0.000	3.796
	<b>Item No.17 (a) :-</b> Lowering & Laying RCC NP3 class pipe of 400mm Dia	1				10.000			10.000	0.000	10.000
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>								22.991		
	<b>Deduction</b>										
	pipe area	1				0.785	7.950	0.550	0.550	1.89	
	soling								0.00		
	PCC								0.00		
	Murrum bedding								1.91		
	<b>Total = B</b>								3.80		
									<b>Net Qty = A - B</b>		
									19.20	0.000	19.196
	<b>BMN. 1</b>										
	CH10.65	557.624	555.894	555.694			1.93	2.000			
	CH41.95	557.884	556.014	555.814			2.07				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1				28.100	1.600	1.050	47.208	13.356	60.564
	(b) For Lift 1.5m to 3.0m	1				28.100	1.200	0.500	16.860	3.911	20.771
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1				28.100	1.600	0.300	13.488	3.816	17.304



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Baratmata Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		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			28.100	1.600	0.150	6.744		1.908	8.652
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			28.100	1.200	0.200	6.744		1.908	8.652
	Item No. : 11 Transportation of earth Transportation charges including							13.417		3.796	17.213
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.000			30.000		10.000	40.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>84.300</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	28.100	0.550	0.550	6.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.74			
	<b>Total = B</b>							<b>13.42</b>			
					<b>Net Qty = A - B</b>			<b>70.88</b>		<b>19.196</b>	<b>90.079</b>
	<b>BMN. 2</b>										
	CH41.95	557.884	556.014	555.814			2.07				
	CH68.25	557.914	556.074	555.874			2.04	2.055			
	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			23.100	1.600	1.050	38.808		60.564	99.372
	(b) For Lift 1.5m to 3.0m	1			23.100	1.200	0.555	15.385		20.771	36.156
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.300	11.088		17.304	28.392
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.150	5.544		8.652	14.196
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.100	1.200	0.200	5.544		8.652	14.196
	Item No. : 11 Transportation of earth Transportation charges including							11.029		17.213	28.242
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000		40.000	65.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>70.825</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	23.100	0.550	0.550	5.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.54			
	<b>Total = B</b>							<b>11.03</b>			
					<b>Net Qty = A - B</b>			<b>59.80</b>		<b>90.079</b>	<b>149.874</b>
	<b>BMN. 3</b>										
	CH68.25	557.914	556.074	555.874			2.04				
	CH107.05	557.924	556.224	556.024			1.90	1.970			



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11th Baramatia Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<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			35.600	1.600	1.050	59.808			
	(b) For Lift 1.5m to 3.0m	1			35.600	1.200	0.470	20.078	99.372	159.180	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.								36.156	56.234	
	(a) For Lift 0 to 1.5m	1			35.600	1.600	0.300	17.088	28.392	45.480	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			35.600	1.600	0.150	8.544	14.196	22.740	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.600	1.200	0.200	8.544	14.196	22.740	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							16.998	28.242	45.240	
	<b>Item No.17 (a) :-</b> Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.500			37.500	65.000	102.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							105.518			
	<b>Deduction</b>										
	pipe area	1		0.785	35.600	0.550	0.550	8.45			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							8.54			
	<b>Total = B</b>							17.00			
								<b>Net Qty = A - B</b>	<b>88.52</b>	<b>149.874</b>	<b>238.395</b>
	<b>BMN. 4</b>										
	CH107.05	557.924	556.224	556.024			1.90	2.120			
	CH145.85	558.484	556.344	556.144			2.34				
	<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			35.600	1.600	1.050	59.808	159.180	218.988	
	(b) For Lift 1.5m to 3.0m	1			35.600	1.200	0.620	26.486	56.234	82.721	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.600	1.600	0.300	17.088	45.480	62.568	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			35.600	1.600	0.150	8.544	22.740	31.284	
	<b>Extra Item no.:-5. a) Providing Rubble soling in 15 to 20 cm thk layer</b>	1			35.600	1.200	0.200	8.544	0.000	8.544	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							16.998	45.240	62.237	
	<b>Item No.17 (a) :-</b> Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.500			37.500	102.500	140.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							111.926			
	<b>Deduction</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 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 nine line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP

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11th Baratmata Nagar (version 2) Measurement-400mm

Date  
Measurement  
Remarks

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	pipe area	1		0.785	35.600	0.550	0.550	8.45			
	soling							0.00			
	PCC							0.00			
	Murum bedding							8.54			
	<b>Total = B</b>							<b>17.00</b>			
		<b>Net Qty = A - B</b>							<b>94.93</b>	<b>238.395</b>	<b>333.324</b>
	<b>BMN. 5</b>										
	CH145.85	558.484	556.344	556.144			2.34	2.445			
	CH164.65	558.774	556.424	556.224			2.55				
	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			15.600	1.600	1.050	26.208	218.988	245.196	
	(b) For Lift 1.5m to 3.0m	1			15.600	1.200	0.945	17.690	82.721	100.411	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.600	1.600	0.300	7.488	62.568	70.056	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.600	1.600	0.150	3.744	31.284	35.028	
	Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			15.600	1.200	0.200	3.744	8.544	12.288	
	Item No. : 11 Transportation of earth Transportation charges including							7.448	62.237	69.686	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500			17.500	140.000	157.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>55.130</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	15.600	0.550	0.550	3.70			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.74			
	<b>Total = B</b>							<b>7.45</b>			
		<b>Net Qty = A - B</b>							<b>47.68</b>	<b>333.324</b>	<b>381.006</b>
	<b>BMN. 6</b>										
	CH164.65	558.774	556.424	556.224			2.55	2.995			
	CH190.95	559.714	556.474	556.274			3.44				
	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			23.100	1.600	1.050	38.808	245.196	284.004	
	(b) For Lift 1.5m to 3.0m	1			23.100	1.200	1.495	41.441	100.411	141.853	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.300	11.088	70.056	81.144	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.150	5.544	35.028	40.572	



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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 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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1b Baratmata Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			23.100	1.200	0.200	5.544		12.288	17.832
	Item No. : 11 Transportation of earth Transportation charges including							11.029		69.686	80.715
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000		157.500	182.500
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							96.881			
	<b>Deduction</b>										
	pipe area	1		0.785	23.100	0.550	0.550	5.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.54			
	<b>Total = B</b>							11.03			
								<b>Net Qty = A - B</b>			
								85.85		381.006	466.858
	BMN. 7										
	CH190.95	559.714	556.474	556.274				3.44			
	CH212.25	560.194	556.574	556.374				3.82			
	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			18.100	2.000	1.050	38.010		284.004	322.014
	(b) For Lift 1.5m to 3.0m	1			18.100	1.600	1.500	43.440		141.853	185.293
	(c) For Lift 3.0m to 4.5m	1			18.100	1.200	0.630	13.684		0.000	13.684
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.100	2.000	0.300	10.860		81.144	92.004
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.100	2.000	0.150	5.430		40.572	46.002
	Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			18.100	1.200	0.200	4.344		17.832	22.176
	Item No. : 11 Transportation of earth Transportation charges including							8.642		80.715	89.357
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			20.000		182.500	202.500
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							111.424			
	<b>Deduction</b>										
	pipe area	1		0.785	18.100	0.550	0.550	4.30			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.34			
	<b>Total = B</b>							8.64			
								<b>Net Qty = A - B</b>			
								102.78		466.858	569.639
	BMN. 8										
	CH212.25	560.194	557.074	556.874				3.32			
	CH236.05	560.444	557.124	556.924				3.52			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										



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# AURANGABAD MUNICIPAL CORPORATION.

(S.No. 10001) (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. 08 to STP.

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1h Baratmata Nagar (version 2) Measurement-400mm

Date of Measurement

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			20.600	2.000	1.050	43.260		322.014	365.274
	(b) For Lift 1.5m to 3.0m	1			20.600	1.600	1.500	49.440		185.293	234.733
	(c) For Lift 3.0m to 4.5m	1			20.600	1.200	0.420	10.382		13.684	24.066
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.600	2.000	0.300	12.360		92.004	104.364
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.600	2.000	0.150	6.180		46.002	52.182
	Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			20.600	1.200	0.200	4.944		22.176	27.120
	Item No. : 11 Transportation of earth Transportation charges including							9.836		89.357	99.193
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500		202.500	225.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							121.622			
	Deduction										
	pipe area	1			0.785	20.600	0.550	0.550	4.89		
	soling								0.00		
	PCC								0.00		
	Murrum bedding								4.94		
	Total = B							9.84			
	Net Qty = A - B							111.79		569.639	681.426
	BMN. 9										
	CH236.05	560.444	557.524	557.324				3.12	2.910		
	CH259.85	560.124	557.624	557.424				2.70			
	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			20.600	1.600	1.050	34.608		365.274	399.882
	(b) For Lift 1.5m to 3.0m	1			20.600	1.200	1.410	34.855		234.733	269.588
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.600	1.600	0.300	9.888		104.364	114.252
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.600	1.600	0.150	4.944		52.182	57.126
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.600	1.200	0.200	4.944		22.740	27.684
	Item No. : 11 Transportation of earth Transportation charges including							9.836		99.193	109.029
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.500			22.500		225.000	247.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							84.295			
	Deduction										
	pipe area	1			0.785	20.600	0.550	0.550	4.89		
	soling								0.00		
	PCC								0.00		



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# AURANGABAD MUNICIPAL CORPORATION

(From No.52)

## Measurement Book

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

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12b Barasmata Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EXL							
	Murum bedding						4.94				
	<b>Total = B</b>						9.84				
	<b>BMN. 10</b>	Net Qty = A - B					74.46	631.426	755.885		
	CH259.85	560.124	557.624	557.424		2.70					
	CH293.65	560.244	557.744	557.544		2.70					
	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			30.600	1.600	1.500	73.440	399.882	473.322	
	(b) For Lift 1.5m to 3.0m	1			30.600	1.200	1.200	44.064	269.588	313.652	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.600	1.200	0.200	7.344	27.684	35.028	
	Item No. : 11 Transportation of earth Transportation charges including							14.610	109.029	123.639	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.500			32.500	247.500	280.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							117.504			
	<b>Deduction</b>										
	pipe area	1		0.785	30.600	0.550	0.550	7.27			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.34			
	<b>Total = B</b>							14.61			
	<b>Net Qty = A - B</b>							102.89	755.885	858.779	
	<b>BMN. 11</b>										
	CH293.65	560.244	557.744	557.544		2.70					
	CH334.95	560.594	557.894	557.694		2.90					
	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			38.100	1.600	1.500	91.440	473.322	564.762	
	(b) For Lift 1.5m to 3.0m	1			38.100	1.200	1.300	59.436	313.652	373.088	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.100	1.200	0.200	9.144	35.028	44.172	
	Item No. : 11 Transportation of earth Transportation charges including							18.191	123.639	141.830	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.000			40.000	280.000	320.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							150.876			
	<b>Deduction</b>										
	pipe area	1		0.785	38.100	0.550	0.550	9.05			
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.14			
	<b>Total = B</b>							18.19			
	<b>Net Qty = A - B</b>							132.68	858.779	991.464	
	<b>BMN. 12</b>										
	CH334.95	560.594	557.894	557.694		2.90					
	CH371.25	560.814	558.014	557.814		3.00					



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/D...  
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11th Baralmata Nagar (version 2) Measurement-400mm

Date of Meas-  
urement

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	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			33.100	1.600	1.500	79.440		564.762	644.202
	(b) For Lift 1.5m to 3.0m	1			33.100	1.200	1.450	57.594		373.088	430.682
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			33.100	1.200	0.200	7.944		44.172	52.116
	Item No. : 11 Transportation of earth Transportation charges including							15.804		141.830	157.634
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.000			35.000		320.000	355.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>137.034</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	33.100	0.550	0.550	7.86			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.94			
	<b>Total = B</b>							<b>15.80</b>			
	<b>Net Qty = A - B</b>							<b>121.23</b>		<b>991.464</b>	<b>1112.694</b>
	<b>BMN. 13</b>										
	CH371.25	560.814	558.014	557.814			3.00	2.950			
	CH377.55	560.734	558.034	557.834			2.90				
	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			3.100	1.600	1.500	7.440		644.202	651.642
	(b) For Lift 1.5m to 3.0m	1			3.100	1.200	1.450	5.394		430.682	436.076
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.100	1.200	0.200	0.744		52.116	52.860
	Item No. : 11 Transportation of earth Transportation charges including							1.480		157.634	159.114
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			5.000			5.000		355.000	360.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>12.834</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	3.100	0.550	0.550	0.74			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.74			
	<b>Total = B</b>							<b>1.48</b>			
	<b>Net Qty = A - B</b>							<b>11.35</b>		<b>1112.694</b>	<b>1124.047</b>
	<b>BMN. 14</b>										
	CH377.55	560.734	558.034	557.834			2.90	2.700			
	CH388.85	560.374	558.074	557.874			2.50				
	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			8.100	1.600	1.500	19.440		651.642	671.082
	(b) For Lift 1.5m to 3.0m	1			8.100	1.200	1.200	11.664		436.076	447.740



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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

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11th Baratmata Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE	
		No			L	B	D		Page	Quantity		
		GL	IL	EX.L								
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.100	1.200	0.200	1.944		52.860	54.804	
	Item No. : 11 Transportation of earth Transportation charges including							3.867		159.114	162.982	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.000			10.000		360.000	370.000	
	Item No 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation = A</b>											
	<b>Deduction</b>							31.104				
	pipe area	1		0.785	8.100	0.550	0.550	1.92				
	soling							0.00				
	PCC							0.00				
	Murum bedding							1.94				
	<b>Total = B</b>							3.87				
		<b>Net Qty = A - B</b>										
	<b>BMN. 15</b>							27.24		1124.047	1151.284	
	CH388.85											
	CH405.15	560.374	558.074	557.874				2.50				
		560.634	558.134	557.934				2.70				
	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			13.100	1.600	1.500	31.440		671.082	702.522	
	(b) For Lift 1.5m to 3.0m	1			13.100	1.200	1.100	17.292		447.740	465.032	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.100	1.200	0.200	3.144		54.804	57.948	
	Item No. : 11 Transportation of earth Transportation charges including							6.255		162.982	169.237	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		370.000	385.000	
	Item No 30 :- Refilling the excavated trenches ...											
	<b>Total Excavation = A</b>											
	<b>Deduction</b>							48.732				
	pipe area	1		0.785	13.100	0.550	0.550	3.11				
	soling							0.00				
	PCC							0.00				
	Murum bedding							3.14				
	<b>Total = B</b>							6.25				
		<b>Net Qty = A - B</b>										
	<b>BMN. 16</b>							42.48		1151.284	1193.761	
	CH405.15	560.634	558.134	557.934				2.70				
	CH431.45	560.634	558.234	558.034				2.60				
	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			23.100	1.600	1.200	44.352		702.522	746.874	
	(b) For Lift 1.5m to 3.0m	1			23.100	1.200	1.150	31.878		465.032	496.910	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.200	7.392		114.252	121.644	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock 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 1

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11th Baratmata Nagar (version 2) Measurement-400mm

Date of  
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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.100	3.696		57.126	60.822
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.100	1.200	0.200	5.544		57.948	63.492
	Item No. : 11 Transportation of earth Transportation charges including							11.029		169.237	180.266
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000		385.000	410.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							87.318			
	<b>Deduction</b>										
	pipe area	1		0.785	23.100	0.550	0.550	5.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.54			
	<b>Total = B</b>							11.03			
					Net Qty = A - B			76.29		1193.761	1270.050
	<b>BMN. 17</b>										
	CH431.45	560.634	558.234	558.034				2.60		2.750	
	CH457.75	561.034	558.334	558.134				2.90			
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	1.600	1.200	44.352		746.874	791.226
	(b) For Lift 1.5m to 3.0m	1			23.100	1.200	1.250	34.650		496.910	531.560
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.200	7.392		121.644	129.036
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.100	3.696		60.822	64.518
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.100	1.200	0.200	5.544		63.492	69.036
	Item No. : 11 Transportation of earth Transportation charges including							11.029		180.266	191.295
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000		410.000	435.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							90.090			
	<b>Deduction</b>										
	pipe area	1		0.785	23.100	0.550	0.550	5.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.54			
	<b>Total = B</b>							11.03			
					Net Qty = A - B			79.06		1270.050	1349.110
	<b>BMN. 18</b>										
	CH457.75	561.034	558.334	558.134				2.90		3.000	
	CH484.05	561.334	558.434	558.234				3.10			
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum 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 Naksharwadi (Kancharwadi), Batewadi, Siddharth Garden, Zalta, Padegani, CHDCO (Airport), Construction, Erection, Testing and Commissioning of Sewage pumping stations at Batewadi, Siddharth Garden, Padegani, Gofwadi, Zalta, Ward No. 09 and CHDCO (Airport), Providing lowering, laying jointing and testing rising main.

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Brahmata Nagar Section 2 Measurement-420mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	(a) For Lift 0 to 1.5m	1			23.100	1.600	1.200	44.352			
	(b) For Lift 1.5m to 3.0m	1			23.100	1.200	1.500	41.580			
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.								791.220	818.770	
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.200	7.392			
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.								120.036	150.420	
	(a) For Lift 0 to 1.5m	1			23.100	1.600	0.100	3.696			
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.100	1.200	0.200	5.544		64.518	68.214
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							11.029		69.036	74.580
	<b>Item No.17 (a) :-</b> Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000					191.295	202.325
	<b>Item No 30 :-</b> Refilling the excavated trenches ...									435.000	460.000
	<b>Total Excavation = A</b>										
	<b>Deduction</b>							97.020			
	pipe area	1									
	soling			0.785	23.100	0.550	0.550	5.49			
	PCC							0.00			
	Murrum bedding							0.00			
	<b>Total = B</b>							5.54			
								11.03			
								85.99			
	<b>BMN. 19</b>									1149.110	1415.101
	<b>CH484.05</b>	561.334	558.434	558.234				3.10			
	<b>CH510.35</b>	561.334	558.534	558.334				3.00	3.050		
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all typesof soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	2.000	1.200	55.440		815.578	891.018
	(b) For Lift 1.5m to 3.0m	1			23.100	1.600	1.500	55.440		573.140	628.580
	(c) For Lift 3.0m to 4.5m	1			23.100	1.200	0.050	1.386		24.066	25.452
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	2.000	0.200	9.240		136.428	145.668
	<b>Item No. 4 :-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.100	2.000	0.100	4.620		68.214	72.834
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.100	1.200	0.200	5.544		74.580	80.124
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							11.029		202.325	213.354
	<b>Item No.17 (a) :-</b> Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000					460.000	485.000
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>										
	<b>Deduction</b>							126.126			
	pipe area	1									
	soling			0.785	23.100	0.550	0.550	5.49			
	PCC							0.00			



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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

Authority No. AMC/Ward R&C/UDYSSM/2004/1481/Date: 01.07.2011

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12 of 15 11th Bararmata Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murum bedding							5.54			
	Total = B							11.03			
		Net Qty = A - B						115.10	1435.101	1550.198	
	BMN. 20										
	CH510.35	561.334	558.534	558.334			3.00	2.850			
	CH539.15	561.154	558.654	558.454			2.70				
	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			25.600	2.000	1.200	61.440	891.018	952.458	
	(b) For Lift 1.5m to 3.0m	1			25.600	1.600	1.350	55.296	628.580	683.876	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.600	2.000	0.200	10.240	145.668	155.908	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			25.600	2.000	0.100	5.120	72.834	77.954	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.600	1.200	0.200	6.144	80.124	86.268	
	Item No. : 11 Transportation of earth Transportation charges including							12.223	213.354	225.577	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.500			27.500	485.000	512.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							132.096			
	Deduction										
	pipe area	1		0.785	25.600	0.550	0.550	6.08			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.14			
	Total = B							12.22			
		Net Qty = A - B						119.87	1550.198	1670.071	
	BMN. 21										
	CH539.15	561.154	558.654	558.454			2.70	2.650			
	CH582.95	561.254	558.854	558.654			2.60				
	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			40.600	1.600	1.500	97.440	952.458	1049.898	
	(b) For Lift 1.5m to 3.0m	1			40.600	1.200	1.150	56.028	683.876	739.904	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.600	1.200	0.200	9.744	86.268	96.012	
	Item No. : 11 Transportation of earth Transportation charges including							19.385	225.577	244.962	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			42.500			42.500	512.500	555.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							153.468			
	Deduction										
	pipe area	1		0.785	40.600	0.550	0.550	9.64			
	soling							0.00			



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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1st Baralmata Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	IL	EX.L	L	B	D		Page	Quantity	
	PCC							0.00			
	Murum bedding							9.74			
	<b>Total = B</b>							19.38			
	<b>BMN. 22</b>	<b>Net Qty = A - B</b>						134.08			
	CH582.95										
	CH586.75	561.254	559.054	558.854			2.40				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.		559.054	558.854			1.80	2.100			
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			0.600	1.600	1.500	1.440			
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.600	1.200	0.600	0.432	1049.898	1051.338	
	Item No. : 11 Transportation of earth Transportation charges including							0.144	739.904	740.336	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			2.500			0.286	96.012	96.156	
	Item No 30 :- Refilling the excavated trenches ...							2.500	244.962	245.249	
	<b>Total Excavation = A</b>								555.000	557.500	
	<b>Deduction</b>							1.872			
	pipe area	1									
	soling			0.785	0.600	0.550	0.550	0.14			
	PCC							0.00			
	Murum bedding							0.00			
	<b>Total = B</b>							0.14			
	<b>BMN. 23</b>	<b>Net Qty = A - B</b>						1.59			
	CH586.75								1804.154	1805.739	
	CH608.05	560.654	559.254	559.054			1.60				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.	560.534	559.334	559.134			1.40	1.500			
	(a) For Lift 0 to 1.5m	1									
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.				18.100	1.200	0.700	15.204	0.000	15.204	
	(a) For Lift 0 to 1.5m	1									
	Extra Item no.:-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			18.100	1.200	0.800	17.376	1051.338	1068.714	
	Item No. : 11 Transportation of earth Transportation charges including							4.344	27.120	31.464	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			8.642	245.249	253.891	
	Item No 30 :- Refilling the excavated trenches ...							20.000	557.500	577.500	
	<b>Total Excavation = A</b>										
	<b>Deduction</b>							32.580			
	pipe area	1									
	soling			0.785	18.100	0.550	0.550	4.30			
	PCC							0.00			
	Murum bedding							0.00			
	<b>Total = B</b>							4.34			
	<b>Net Qty = A - B</b>							8.64			
								23.94	1805.739	1829.677	



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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 I

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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	BMN. 24										
	CH608.05	560.534	559.334	559.134			1.40	1.450			
	CH639.35	560.754	559.454	559.254			1.50				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			28.100	1.200	0.750	25.290	15.204	40.494	
	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			28.100	1.200	0.700	23.604	1068.714	1092.318	
	Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			28.100	1.200	0.200	6.744	31.464	38.208	
	Item No. : 11 Transportation of earth Transportation charges including							13.417	253.891	267.307	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.000			30.000	577.500	607.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							48.894			
	<b>Deduction</b>										
	pipe area	1		0.785	28.100	0.550	0.550	6.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.74			
	<b>Total = B</b>							13.42			
					Net Qty = A - B			35.48	1829.677	1865.154	
	BMN. 25										
	CH639.35	560.754	559.454	559.254			1.50	1.650			
	CH673.15	561.184	559.584	559.384			1.80				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			30.600	1.600	0.650	31.824	40.494	72.318	
	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			30.600	1.600	0.850	41.616	1092.318	1133.934	
	(b) For Lift 1.5m to 3.0m	1			30.600	1.200	0.150	5.508	740.336	745.844	
	Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			30.600	1.200	0.200	7.344	38.208	45.552	
	Item No. : 11 Transportation of earth Transportation charges including							14.610	267.307	281.918	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.500			32.500	607.500	640.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							78.948			
	<b>Deduction</b>										
	pipe area	1		0.785	30.600	0.550	0.550	7.27			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.34			
	<b>Total = B</b>							14.61			
					Net Qty = A - B			64.34	1865.154	1929.492	



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**Measurement Book**

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

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

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17th Baratmata Nagar (version 2) Measurement-400mm

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>BMN. 26</b>										
	CH673.15	561.184	559.584	559.384			1.80	1.900			
	CH701.95	561.464	559.664	559.464			2.00				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.600	1.600	0.200	8.192		72.318	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.									80.510	
	(a) For Lift 0 to 1.5m	1			25.600	1.600	1.300	53.248		1133.934	
	(b) For Lift 1.5m to 3.0m	1			25.600	1.200	0.400	12.288		745.844	
	(c) For Lift 3.0m to 4.5m	1			25.600	1.200	0.000	0.000		25.452	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.600	1.600	0.000	0.000		155.908	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			25.600	1.600	0.000	0.000		77.954	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									96.156	
	Extra Item no.-5. a) Providing Rubble soling in 15 to 20 cm thk layer	1			25.600	1.200	0.200	6.144		45.552	
	Item No. : 11 Transportation of earth Transportation charges including							12.223		281.918	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.500			27.500		640.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>73.728</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	25.600	0.550	0.550	6.08			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							6.14			
	<b>Total = B</b>							<b>12.22</b>			
	<b>Net Qty = A - B</b>							<b>61.50</b>	<b>1929.492</b>	<b>1990.997</b>	



*Jay*



# 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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11th Baratmata Nagar, Baratmata Nagar

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### 17<sup>th</sup> RA BILL MEASUREMENTS BRANCH SEWER AT "BHARATMATA NAGAR"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		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 BMN.1 CH10.65	557.624	555.894	555.644			1.980				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.050	8.440	0.000	8.440	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.480	3.858	0.000	3.858	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	0.000	2.412	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	0.000	1.206	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.037	0.000	5.037	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							15.916			
	<b>Deduction</b>										
	Brick work	1		0.785	2.280	2.280	0.230	0.939			
		1		0.785	1.540	1.540	1.500	2.793			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								5.037			
	<b>Net Qty = A - B</b>							10.879	0.000	10.879	
	BMN.2 CH41.95	557.884	556.014	555.764			2.120				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.050	8.440	8.440	16.881	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.620	4.984	3.858	8.842	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	2.412	4.823	



*Jay*