





# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salun Ah, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and 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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Azad Chowk to Siddharth Chowk R, 300mm

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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.650	1.360	0.200	3.169		32.286	35.455
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.650	1.360	1.200	19.013		86.085	105.098
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.650	1.360	0.100	1.584		6.603	8.187
	(b) For Lift 1.5m to 3.0m	1			11.650	0.960	0.700	7.829		23.938	31.767
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			11.650	0.960	0.335	3.747		10.279	14.026
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.650	0.960	0.100	1.118		6.262	7.380
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.439		12.291	14.730
	Extra Item 9.4 (c) :-Lowering & Laying of RCC NP3 Class pipe of 300mm Dia	1			12.500			12.500		55.000	67.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							35.341			
	<b>Deduction</b>										
	pipe area	1									
	soling			0.785	11.650	0.380	0.380	1.321			
	PCC							0.000			
	Murrum bedding							0.000			
								1.118			
								2.439			
06/07/2016								<b>Net Qty = A - B</b>			
								32.902		168.039	200.942
	CH72.50	607.650	605.150	604.950			2.700				
	CH80.75	607.850	605.220	605.020			2.830	2.765			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			6.650	1.360	0.200	1.809		35.455	37.264
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.650	1.360	1.200	10.853		105.098	115.951
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.650	1.360	0.100	0.904		8.187	9.092
	(b) For Lift 1.5m to 3.0m	1			6.650	0.960	0.800	5.107		31.767	36.874
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			6.650	0.960	0.465	2.969		14.026	16.994



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Azad Chowk to Siddharth Chowk R, DWC Pipe

### 11th RA BILL MEASUREMENTS PIPE Azad Chowk to Siddharth Chowk

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D		Page	Qty.	
	<b>DWC PIPE - 315 mm Dia (Arunoday Colony)</b>										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	AS 29 to AS 29.1										
	CH0.00	608.450	606.745	606.645				1.805			
	CH9.70	608.580	606.760	606.660				1.920	1.863		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.250	1.215	0.200	1.762		62.845	64.607
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.250	1.215	1.200	10.571		186.127	196.697
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.250	1.215	0.100	0.881		18.598	19.479
	(b) For Lift 1.5m to 3.0m	1			7.250	0.815	0.363	2.145		43.421	45.566
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.750	0.815	0.100	0.632		12.972	13.604
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.235		26.925	28.160
	Item 13 (d) :- Lowering & Laying of DWC pipe of 315mm Dia	1			8.350			8.350			8.350
	Item No. 30 :- Refilling the excavated trenches										
	<b>Total Excavation=</b>							<b>15.358</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	7.750	0.315	0.315	0.604			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.632			
								1.235			
								<b>Net Qty = A - B</b>	<b>14.123</b>	<b>362.86</b>	<b>376.986</b>
	AS 29.1 to AS 29.2										
	CH9.70	608.580	606.960	606.860				1.720			
	CH33.70	609.790	607.190	607.090				2.700	2.210		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.070	1.215	0.200	5.120		64.607	69.727



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Azad Chowk to Siddharth Chowk R, DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Qty.	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.070	1.215	1.200	30.720		196.697	227.419
	(b) For Lift 1.5m to 3.0m	1			21.070	0.815	0.500	8.586		51.408	59.994
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			21.070	1.215	0.100	2.560		19.479	22.039
	(b) For Lift 1.5m to 3.0m	1			21.070	0.815	0.210	3.606		45.566	49.172
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			22.070	0.815	0.100	1.799		13.604	15.402
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.518		28.160	31.678
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			22.670			22.670		8.350	31.020
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							50.592			
	<b>Deduction</b>										
	pipe area	1		0.785	22.070	0.315	0.315	1.719			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.799			
								3.518			
								<b>47.074</b>		<b>376.986</b>	<b>424.060</b>
	<b>Net Qty = A - B</b>										
	AS 29.2 to AS 29.3										
	CH33.70	609.790	607.210	607.110			2.680	2.840			
	CH67.40	610.200	607.300	607.200			3.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.500	1.215	0.300	11.117		69.727	80.844
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.500	1.215	1.100	40.763		227.417	268.181
	(b) For Lift 1.5m to 3.0m	1			30.500	0.815	1.100	27.343		59.994	87.337
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.500	1.215	0.100	3.706		22.039	25.745
	(b) For Lift 1.5m to 3.0m	1			30.500	0.815	0.240	5.966		49.172	55.138
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			31.500	0.815	0.100	2.567		15.402	17.970
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.021		31.678	36.699
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			32.200			32.200		31.020	63.220



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Azad Chowk to Siddharth Chowk R, DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						88.895				
	Deduction										
	pipe area	1		0.785	31.500	0.315	0.315	2.454			
	soling						0.000				
	PCC						0.000				
	Murrum bedding						2.567				
							5.021				
	Net Qty = A - B						83.874	424.060	507.935		
	AS 29.3 to AS 29.4										
	CH67.40	610.200	607.600	607.500			2.700				
	CH105.00	610.300	607.750	607.650			2.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			34.400	1.215	0.300	12.539	80.844	93.383	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m*	1			34.400	1.215	1.100	45.976	268.181	314.156	
	(b) For Lift 1.5m to 3.0m	1			34.400	0.815	0.900	25.232	87.337	112.570	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			34.400	1.215	0.100	4.180	25.745	29.924	
	(b) For Lift 1.5m to 3.0m	1			34.400	0.815	0.275	7.710	55.138	62.848	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.400	0.815	0.100	2.885	17.970	20.855	
	Item No. 11 Transportation of earth Transportation charges including loading & unloading							5.642	36.699	42.341	
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			36.100			36.100	63.220	99.320	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						95.636				
	Deduction										
	pipe area	1		0.785	35.400	0.315	0.315	2.757			
	soling						0.000				
	PCC						0.000				
	Murrum bedding						2.885				
							5.642				
	Net Qty = A - B						89.994	507.935	597.928		
	AS 29.4 to AS 29.5										
	CH105.00	610.300	607.800	607.700			2.600				
	CH116.90	610.250	607.860	607.760			2.490				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.700	1.215	0.400	4.228	93.383	97.611	



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Azad Chowk to Siddharth Chowk R, DWC Pipe

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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Qty.
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				8.700	1.215	1.000	10.571		314.156	324.727
	(a) For Lift 0 to 1.5m	1			8.700	0.815	0.500	3.545		112.570	116.115
	(b) For Lift 1.5m to 3.0m	1									
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.				8.700	1.215	0.100	1.057		29.924	30.981
	(a) For Lift 0 to 1.5m	1			8.700	0.815	0.545	3.864		62.848	66.712
	(b) For Lift 1.5m to 3.0m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)				9.700	0.815	0.100	0.791		20.855	21.645
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.546		42.341	43.888
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			10.400			10.400		99.320	109.720
	Item No. 30 :- Refilling the excavated trenches ...							23.265			
	<b>Total Excavation=</b>										
	Deduction							0.756			
	pipe area	1		0.785	9.700	0.315	0.315	0.000			
	soling							0.000			
	PCC							0.791			
	Murrum bedding							1.546			
	<b>Net Qty = A - B</b>							<b>21.719</b>		<b>597.928</b>	<b>619.648</b>
	AS 29.5 to AS 29.6							2.400			
	CH116.90	610.250	607.950	607.850				2.400			
	CH141.70	610.330	608.030	607.930							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				21.600	1.215	0.300	7.873		97.611	105.484
	(a) For Lift 0 to 1.5m	1			21.600	1.215	0.300	7.873		97.611	105.484
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				21.600	1.215	1.100	28.868		324.727	353.595
	(a) For Lift 0 to 1.5m	1			21.600	1.215	1.100	28.868		324.727	353.595
	(b) For Lift 1.5m to 3.0m	1			21.600	0.815	0.600	10.562		116.115	126.677
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.				21.600	1.215	0.100	2.624		30.981	33.606
	(a) For Lift 0 to 1.5m	1			21.600	1.215	0.100	2.624		30.981	33.606
	(b) For Lift 1.5m to 3.0m	1			21.600	0.815	0.300	5.281		66.712	71.994
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)				22.600	0.815	0.100	1.842		21.645	23.487
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.602		43.888	47.490
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			23.300			23.300		109.720	133.020



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Azad Chowk to Siddharth Chowk R, DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>55.210</b>				
	<b>Deduction</b>										
	pipe area	1		0.785	22.600	0.315	0.315	1.760			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.842			
							<b>3.602</b>				
							<b>Net Qty = A - B</b>	<b>51.607</b>	<b>619.648</b>	<b>671.255</b>	
	AS 29.6 to AS 29.7										
	CH141.70	610.330	608.580	608.480			1.850				
	CH174.90	611.610	608.700	608.600			3.010	2.430			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.000	1.215	0.300	10.935	105.484	116.419	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.000	1.215	1.100	40.095	353.595	393.690	
	(b) For Lift 1.5m to 3.0m	1			30.000	0.815	0.700	17.115	126.677	143.792	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.000	1.215	0.100	3.645	33.606	37.251	
	(b) For Lift 1.5m to 3.0m	1			30.000	0.815	0.230	5.624	71.994	77.617	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			31.000	0.815	0.100	2.527	23.487	26.014	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.941	47.490	52.431	
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			31.700			31.700	133.020	164.720	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>77.414</b>				
	<b>Deduction</b>										
	pipe area	1		0.785	31.000	0.315	0.315	2.415			
	soling							0.000			
	PCC							0.000			
	Murum bedding							2.527			
							<b>4.941</b>				
							<b>Net Qty = A - B</b>	<b>72.472</b>	<b>671.255</b>	<b>743.727</b>	
	AS 29.7 to AS 29.8										
	CH174.90	611.610	608.900	608.800			2.810				
	CH202.10	611.000	609.100	609.000			2.000	2.405			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.270	1.215	1.100	32.437	116.419	148.856	
	(b) For Lift 1.5m to 3.0m	1			24.270	0.815	0.500	9.890	0.221	10.111	



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Azad Chowk to Siddharth Chowk R, DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.270	1.215	0.300	8.846		393.690	402.537
	(b) For Lift 1.5m to 3.0m	1			24.270	0.815	0.405	8.011		143.792	151.803
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			24.270	1.215	0.100	2.949		37.251	40.199
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.270	0.815	0.100	2.060		26.014	28.073
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.028		52.431	56.459
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			25.870			25.870		164.720	190.590
	Item No. 30 :- Refilling the excavated trenches ...							62.133			
	Total Excavation=										
	Deduction										
	pipe area	1		0.785	25.270	0.315	0.315	1.968			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.060			
								4.028			
								58.105		743.727	801.833
	AS 29.8 to AS 29.9 "										
	CH202.10	611.000	609.300	609.200			1.800	1.825			
	CH236.20	611.350	609.600	609.500			1.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			31.440	1.215	1.100	42.020		148.856	190.876
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			31.440	1.215	0.300	11.460		402.537	413.996
	(b) For Lift 1.5m to 3.0m	1			31.440	0.815	0.325	8.328		151.803	160.131
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			31.440	1.215	0.100	3.820		40.199	44.019
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			32.440	0.815	0.100	2.644		28.073	30.717
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.171		56.459	61.629
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			32.940			32.940		190.590	223.530
	Item No. 30 :- Refilling the excavated trenches ...										



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

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

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Azad Chowk to Siddharth Chowk R, DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			35.140	1.215	0.200	8.539		420.713	429.252
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			35.140	1.215	0.100	4.270		47.378	51.647
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			36.140	0.815	0.100	2.945		33.051	35.997
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.760		66.194	71.955
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			36.640			36.640		252.670	289.310
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>69.198</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	36.140	0.315	0.315	2.815			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.945			
								5.760			
								<b>63.437</b>		<b>913.955</b>	<b>977.392</b>
	<b>AS 29.1 to AS 29.1.1</b>										
	<b>Connection</b>										
	CH0.00	608.580	606.760	606.660				1.920			
	CH1.00	608.580	606.860	606.760				1.820		1.870	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.000	1.215	0.200	0.243		282.409	282.652
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.000	1.215	1.200	1.458		429.252	430.710
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.000	1.215	0.100	0.122		51.647	51.769
	(b) For Lift 1.5m to 3.0m	1			1.000	0.815	0.370	0.302		77.617	77.919
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.000	0.815	0.100	0.082		35.997	36.078
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.159		71.955	72.114
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			1.000			1.000		289.310	290.310
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>2.124</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	1.000	0.315	0.315	0.078			
	soling							0.000			
	PCC							0.000			



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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

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Azad Chowk to Siddharth Chowk R, DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Murum bedding						0.082				
							0.159				
							1.965	977.392	979.357		
							Net Qty = A - B				
	<b>AS 29.2 to AS 29.2.1</b>										
	CH0.00	609.790	607.190	607.090			2.700				
	CH3.50	610.200	607.300	607.200			3.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.500	1.215	0.200	0.851	282.652	283.503	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.500	1.215	1.200	5.103	430.710	435.813	
	(b) For Lift 1.5m to 3.0m	1			3.500	0.815	0.500	1.426	165.988	167.414	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.500	1.215	0.100	0.425	51.769	52.194	
	(b) For Lift 1.5m to 3.0m	1			3.500	0.815	0.850	2.425	77.919	80.343	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.500	0.815	0.100	0.285	36.078	36.363	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.558	72.114	72.672	
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			3.500			3.500	290.310	293.810	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							10.230			
	<b>Deduction</b>										
	pipe area	1		0.785	3.500	0.315	0.315	0.273			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							0.285			
								0.558			
								Net Qty = A - B			
								9.672	979.357	989.029	
	<b>AS 29.4 to AS 29.4.1</b>										
	CH0.00	610.300	607.750	607.650			2.650				
	CH1.50	610.300	607.850	607.750			2.550	2.600			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.500	1.215	0.300	0.547	283.503	284.049	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.500	1.215	1.100	2.005	435.813	437.818	
	(b) For Lift 1.5m to 3.0m	1			1.500	0.815	0.900	1.100	167.414	168.514	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



S. S. J. J.



# 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 arden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi Siddharth Garden Padegaon Golwadi Zalta Ward

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Azad Chowk to Siddharth Chowk R, DWC Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			1.500	1.215	0.100	0.182		52.194	52.376
	(b) For Lift 1.5m to 3.0m	1			1.500	0.815	0.200	0.245		80.343	80.588
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.500	0.815	0.100	0.122		36.363	36.486
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.239		72.672	72.911
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			1.500			1.500		293.810	295.310
	Item No. 30 :- Refilling the excavated trenches ...							4.079			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	1.500	0.315	0.315	0.117			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.122			
								0.239			
								<b>3.839</b>		<b>989.029</b>	<b>992.868</b>
	<b>Net Qty = A - B</b>										
	<b>AS 29.6 to AS 29.6.1</b>										
	CH0.00	610.250	607.950	607.850			2.400	2.490			
	CH1.00	610.530	608.050	607.950			2.580				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.000	1.215	0.300	0.365		284.049	284.414
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.000	1.215	1.100	1.337		437.818	439.154
	(b) For Lift 1.5m to 3.0m	1			1.000	0.815	0.600	0.489		168.514	169.003
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.000	1.215	0.100	0.122		52.376	52.498
	(b) For Lift 1.5m to 3.0m	1			1.000	0.815	0.390	0.318		80.588	80.906
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.000	0.815	0.100	0.082		36.486	36.567
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.159		72.911	73.071
	Item 13 (d) :-Lowering & Laying of DWC pipe of 315mm Dia	1			1.000			1.000		295.310	296.310
	Item No. 30 :- Refilling the excavated trenches ...							2.629			
	<b>Total Excavation=</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	1.000	0.315	0.315	0.078			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.082			
								0.159			



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