





# 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, Badamwadi, CIDCO (Airport). Construction, Erection, Testing and Commissioning

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Shivshankar Colony-04 - SW 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							
	CH37.50	580.480	579.370	579.270			1.210	1.205			
	CH48.75	580.750	579.650	579.550			1.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.250	0.740	0.535	3.662	7.236	10.898	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.250	0.740	0.600	4.107	13.098	17.205	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.250	0.740	0.070	0.479	1.528	2.007	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.850	0.740	0.100	0.729	2.361	3.090	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.103	3.573	4.676	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			10.350			10.350	33.900	44.250	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.248			
	Deduction										
	pipe area	1		0.785	9.850	0.220	0.220	0.374			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.729			
								1.103			
								7.145	18.290	25.435	
	Net Qty = A - B										
	SC 6 TO SC 7										
	CH48.75	580.750	579.650	579.550			1.200	1.150			
	CH61.50	580.900	579.900	579.800			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.850	0.740	0.480	3.499	10.898	14.397	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.850	0.740	0.600	4.373	17.205	21.578	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.850	0.740	0.070	0.510	2.007	2.517	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.450	0.740	0.100	0.773	3.090	3.863	



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Shivshankar Colony-04 - SW 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. : 11 Transportation of earth Transportation charges including loading & unloading						1.170		4.676	5.846	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			10.950		10.950		44.250	55.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>8.382</b>				
	<b>Deduction</b>										
	pipe area	1		0.785	10.450	0.220	0.397				
	soling						0.000				
	PCC						0.000				
	Murrum bedding						0.773				
							1.170				
							<b>Net Qty = A - B</b>		<b>25.435</b>	<b>32.647</b>	
	<b>SC 7 TO SC 8</b>										
	CH61.50	580.900	579.900	579.800			1.100				
	CH67.50	581.090	580.105	580.005			1.085		1.093		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.423	1.251	14.397	15.647	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.600	1.776	21.578	23.354	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.000	0.740	0.070	0.207	2.517	2.725	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.600	0.740	0.100	0.340	3.863	4.203	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						0.515		5.846	6.361	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.100		5.100		55.200	60.300	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>3.234</b>				
	<b>Deduction</b>										
	pipe area	1		0.785	4.600	0.220	0.175				
	soling						0.000				
	PCC						0.000				
	Murrum bedding						0.340				
							0.515				
							<b>Net Qty = A - B</b>		<b>32.647</b>	<b>35.365</b>	
	<b>SC 8 TO SC 9</b>										



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(From No.52)

## Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Sahm 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

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Shivshankar Colony-04 - SW Pipe

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.700	7.436	8.126
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.750			6.750	70.400	77.150
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation=</b>							4.474		
	<b>Deduction</b>									
	pipe area	1		0.785	6.250	0.220	0.220	0.237		
	soling							0.000		
	PCC							0.000		
	Murrum bedding							0.463		
								0.700		
								<b>3.774</b>	<b>41.366</b>	<b>45.140</b>
	<b>Net Qty = A - B</b>									
	SC 10 TO SC 11									
	CH86.15	582.050	581.050	580.950			1.100	1.095		
	CH102.45	583.160	582.170	582.070			1.090			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			14.300	0.740	0.425	4.497	19.934	24.431
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			14.300	0.740	0.600	6.349	29.859	36.208
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			14.300	0.740	0.070	0.741	3.484	4.224
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.900	0.740	0.100	1.103	5.376	6.479
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.669	8.136	9.805
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			15.400			15.400	77.150	92.550
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation=</b>							11.587		
	<b>Deduction</b>									
	pipe area	1		0.785	14.900	0.220	0.220	0.566		
	soling							0.000		
	PCC							0.000		
	Murrum bedding							1.103		
								1.669		
								<b>9.919</b>	<b>45.140</b>	<b>55.059</b>
	<b>Net Qty = A - B</b>									
	SC 11 TO SC 12									



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(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, Padewaan, CHDCC (Airport). Construction, Erection, Testing and Commissioning

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Shivshankar Colony-04 - SW Pipe

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EXL							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.672	10.242	10.914	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene,SW pipe of 200mm Dia	1			6.500			6.500	96.950	103.450	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>4.755</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	6.000	0.220	0.220	0.228			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.444			
								0.672			
								<b>4.083</b>	<b>57.223</b>	<b>61.306</b>	
	<b>Net Qty = A - B</b>										
	<b>SC 13 TO SC 14</b>										
	CH115.15	583.820	582.580	582.480			1.340	1.220			
	CH126.35	584.640	583.640	583.540			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.200	0.740	0.550	3.744	27.474	31.218	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.200	0.740	0.600	4.085	40.071	44.156	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.200	0.740	0.070	0.477	4.675	5.152	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.800	0.740	0.100	0.725	7.211	7.937	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.098	10.914	12.011	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			10.300			10.300	103.450	113.750	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>8.306</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	9.800	0.220	0.220	0.372			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.725			
								1.098			
								<b>7.208</b>	<b>61.306</b>	<b>68.514</b>	
	<b>Net Qty = A - B</b>										
	<b>SC 10 TO SC 10.1</b>										



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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 Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth

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Shivshankar Colony-04 - SW 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							
	CH0.00	582.050	581.050	580.950			1.100				
	CH7.70	582.150	581.430	581.330			0.820				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.550	0.740	0.290	1.191	31.218	32.409	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.550	0.740	0.600	2.464	44.156	46.620	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.550	0.740	0.070	0.287	5.152	5.439	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			5.850	0.740	0.100	0.433	7.937	8.369	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.655	12.011	12.667	
	Extra Item 9.2 (c) :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			6.350			6.350	113.750	120.100	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>3.943</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	5.850	0.220	0.220	0.222			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.433			
								0.655			
	<b>Net Qty = A - B</b>							<b>3.288</b>	<b>68.514</b>	<b>71.802</b>	
	SC 10.1 TO SC 10.2										
	CH7.70	582.150	581.430	581.330			0.820	0.810			
	CH16.95	582.200	581.500	581.400			0.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.740	0.140	0.736	32.409	33.145	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.740	0.600	3.152	46.620	49.772	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.100	0.740	0.070	0.368	5.439	5.807	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			7.400	0.740	0.100	0.548	8.369	8.917	



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Shivshankar Colony-04 - Meas.Chamber

### 11th RA BILL MEASUREMENTS OF CHAMBERS 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							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m										
	Bredth for chamber up to 1.5m=2 X 2=4m										
	SC 1										
	CH0.00	579.120	578.430	578.180			0.940				
	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	0.270	0.848	0.000	0.848	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.600	1.884	0.000	1.884	
	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	0.070	0.220	0.000	0.220	
	Item No. : 11 Transportation of earth Transportation charges							1.282	0.000	1.282	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.952			
	Deduction										
	Brick work	1		0.785	1.200	1.200	0.690	0.780			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	Total (B)							1.282			
	Net Qty = A - B							1.669	0.000	1.669	
	SC 2										
	CH17.50	579.620	578.670	578.420			1.200				
	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	0.530	1.664	0.848	2.512	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.600	1.884	1.884	3.768	
	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	0.070	0.220	0.220	0.440	
	Item No. : 11 Transportation of earth Transportation charges							1.576	1.282	2.859	







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Shivshankar Colony-04 - Meas.Chamber

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(A)=</b>						<b>4.051</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	1.040	1.176			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.678</b>			
								<b>2.373</b>	<b>6.033</b>	<b>8.405</b>	
	<b>Net Qty = A - B</b>										
	SC 5										
	CH37.50	580.480	579.370	579.120			1.360				
	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	0.690	2.167	6.092	8.258	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.600	1.884	7.536	9.420	
	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	0.070	0.220	0.879	1.099	
	Item No. : 11 Transportation of earth Transportation charges							1.757	6.102	7.859	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>4.270</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	1.110	1.255			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murrum bedding							0.000			
	<b>Total (B)</b>							<b>1.757</b>			
								<b>2.513</b>	<b>8.405</b>	<b>10.918</b>	
	<b>Net Qty = A - B</b>										
	SC 6										
	CH48.75	580.750	579.650	579.400			1.350				
	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	0.680	2.135	8.258	10.393	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.600	1.884	9.420	11.304	
	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	0.070	0.220	1.099	1.319	
	Item No. : 11 Transportation of earth Transportation charges							1.746	7.859	9.605	



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Shivshankar Colony-04 - Meas.Chamber

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(A)=</b>						<b>3.878</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.985	1.113			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>							<b>1.616</b>			
		<b>Net Qty = A - B</b>							<b>15.704</b>	<b>17.966</b>	
	SC 9										
	CH78.50	581.220	580.280	580.030			1.190				
	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	0.520	1.633	13.989	15.622	
	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	0.600	1.884	15.072	16.956	
	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	0.070	0.220	1.758	1.978	
	Item No. : 11 Transportation of earth Transportation charges							1.565	12.853	14.418	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.737</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.940	1.063			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murram bedding							0.000			
	<b>Total (B)</b>							<b>1.565</b>			
		<b>Net Qty = A - B</b>							<b>17.966</b>	<b>20.137</b>	
	SC 10										
	CH86.15	582.050	581.050	580.800			1.250				
	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	0.580	1.821	15.622	17.443	
	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	0.600	1.884	16.956	18.840	
	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	0.070	0.220	1.978	2.198	
	Item No. : 11 Transportation of earth Transportation charges							1.633	14.418	16.051	



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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. :- 065  
Page No. :-

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Shivshankar Colony-04 - Meas.Chamber

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(A)=</b>						3.925				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	1.000	1.130			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>						1.633				
		<b>Net Qty = A - B</b>						2.292	20.137	22.430	
	<b>SC 11</b>										
	CH102.45	583.160	582.170	581.920			1.240				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.570	1.790	17.443	19.233	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m				0.785	4.000	0.600	1.884	18.840	20.724	
	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	0.070	0.220	2.198	2.418	
	Item No. : 11 Transportation of earth Transportation charges							1.621	16.051	17.673	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						3.894				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.990	1.119			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>						1.621				
		<b>Net Qty = A - B</b>						2.272	22.430	24.702	
	<b>SC 12</b>										
	CH107.75	583.420	582.480	582.230			1.190				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.520	1.633	19.233	20.865	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.600	1.884	20.724	22.608	
	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	0.070	0.220	2.418	2.638	
	Item No. : 11 Transportation of earth Transportation charges							1.565	17.673	19.238	



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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 Nakshtravadi (Kanchanvadi), Banewadi, Siddharth

Book No. :- 663

Page No. :-

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Shivshankar Colony-04 - Meas.Chamber

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(A)=</b>						<b>3.737</b>				
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	0.940	1.063			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							<b>1.565</b>			
		<b>Net Qty = A - B</b>							<b>2.172</b>	<b>24.702</b>	<b>26.873</b>
	<b>SC 14</b>										
	CH126.35	584.640	583.640	583.390			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.580	1.821	20.865	22.687	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.600	1.884	22.608	24.492	
	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	0.070	0.220	2.638	2.857	
	Item No. : 11 Transportation of earth Transportation charges							1.633	19.238	20.870	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.925</b>			
	<b>Deduction</b>										
	Brick work	1		0.785	1.200	1.200	1.000	1.130			
	soling							0.000			
	PCC	1		0.785	1.600	1.600	0.250	0.502			
	Murum bedding							0.000			
	<b>Total (B)</b>							<b>1.633</b>			
		<b>Net Qty = A - B</b>							<b>2.292</b>	<b>26.873</b>	<b>29.166</b>
	<b>SC 10.1</b>										
	CH7.70	582.150	581.430	581.180			0.970				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	22.687	23.629	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.600	1.884	24.492	26.376	
	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	0.070	0.220	2.857	3.077	
	Item No. : 11 Transportation of earth Transportation charges							1.316	20.870	22.187	



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

Book No. 070  
Page No. :-

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Sindhi colony-2(Balaji Nagar) SW Pipe, Measurement Line

### 11th RA BILL MEASUREMENTS SW PIPE SINDHI COLONY-02(Near Balaji Mangal Karyalaya)

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=0.79m										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4=1.19m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0.4=1.59m										
	<b>SIN1 TO SIN2</b>										
	CH0.00	588.920	588.040	587.940			0.980	1.060			
	CH12.10	589.000	587.960	587.860			1.140				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.100	0.790	1.060	8.458	0.000	8.458	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.700	0.790	0.100	0.845	0.000	0.845	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.458	0.000	1.458	
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			11.200			11.200	0.000	11.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							8.458			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	10.700	0.270	0.270	0.612			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.845			
								1.458			
								<b>Net Qty = A - B</b>	<b>7.000</b>	<b>0.000</b>	<b>7.000</b>
	<b>SIN2 TO SIN3</b>										
	CH12.10	589.000	587.960	587.860			1.140	1.125			
	CH17.30	588.890	587.880	587.780			1.110				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.200	0.790	1.125	2.844	8.458	11.302	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.800	0.790	0.100	0.300	0.845	1.146	



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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, Padapaon, CIDCO (Airport), Construction, Erection, Testing and Commission

Book No. :-

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Sindhi colony-2(Balaji Nagar) SW Pipe, Measurement Line

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. : 11 Transportation of earth Transportation charges including loading &							0.518		1.458	1.975
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			4.300			4.300		11.200	15.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>2.844</b>			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	3.800	0.270	0.270	0.217			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.300			
								<b>0.518</b>			
	<b>Net Qty = A - B</b>							<b>2.326</b>		<b>7.000</b>	<b>9.326</b>
	<b>SIN3 TO SIN4.</b>										
	CH17.30	588.890	587.880	587.780			1.110	1.198			
	CH22.90	588.855	587.670	587.570			1.285				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.600	0.790	1.198	3.406		11.302	14.707
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.200	0.790	0.100	0.332		1.146	1.477
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.572		1.975	2.547
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			4.700			4.700		15.500	20.200
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>3.406</b>			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	4.200	0.270	0.270	0.240			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.332			
								<b>0.572</b>			
	<b>Net Qty = A - B</b>							<b>2.834</b>		<b>9.326</b>	<b>12.160</b>
	<b>SIN4 TO SIN5</b>										
	CH22.90	588.855	587.670	587.570			1.285	1.233			
	CH31.30	588.190	587.110	587.010			1.180				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.790	1.233	6.232		14.707	20.939



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**Measurement Book**

072

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

Book No. :  
Page No. :

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Sindhi colony-2(Balaji Nagar) SW Pipe, Measurment Line

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. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.000	0.790	0.100	0.553		1.477	2.030
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.954		2.547	3.501
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			7.500			7.500		20.200	27.700
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							6.232			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	7.000	0.270	0.270	0.401			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.553			
								0.954			
	<b>Net Qty = A - B</b>							5.278		12.160	17.438
	<b>SIN5 TO SIN6</b>										
	CH31.30	588.190	587.110	587.010			1.180	1.225			
	CH42.10	588.070	586.900	586.800			1.270				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.				8.800	0.790	1.225	8.516		20.939	29.455
	(a) For Lift 0 to 1.5m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.400	0.790	0.100	0.743		2.030	2.773
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.281		3.501	4.782
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			9.900			9.900		27.700	37.600
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							8.516			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	9.400	0.270	0.270	0.538			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.743			
								1.281			
	<b>Net Qty = A - B</b>							7.236		17.438	24.674
	<b>SIN6 TO SIN7</b>										
	CH42.10	588.070	586.900	586.800			1.270	1.380			
	CH50.30	588.000	586.610	586.510			1.490				



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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, Book No. :- **073**  
 and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshrayadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Dadanah, CHDCO (Airport). Construction, Erection, Testing and Commissioning. Page No. :-

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Sindhi colony-2(Balaji Nagar) SW Pipe, Measurement Line

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			6.200	0.790	1.380	6.759		29.455	36.214
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.800	0.790	0.100	0.537		2.773	3.310
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.926		4.782	5.708
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			7.300			7.300		37.600	44.900
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							6.759			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	6.800	0.270	0.270	0.389			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.537			
								0.926			
								<b>Net Qty = A - B</b>		24.674	30.906
	<b>SIN7 TO SIN8</b>										
	CH50.30	588.000	586.610	586.510			1.490	1.435			
	CH56.80	588.100	586.820	586.720			1.380				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.500	0.790	1.435	5.101		36.214	41.316
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.100	0.790	0.100	0.403		3.310	3.713
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.695		5.708	6.403
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			5.600			5.600		44.900	50.500
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							5.101			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	5.100	0.270	0.270	0.292			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.403			
								0.695			
								<b>Net Qty = A - B</b>		30.506	34.913
	<b>SIN8 TO SIN9</b>										



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

074

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 (Kanehanwadi), 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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Sindhi colony-2(Balaji Nagar) SW Pipe, Measurement Line

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH56.80	588.100	586.820	586.720			1.380	1.355			
	CH67.10	588.390	587.160	587.060			1.330				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.300	0.790	1.355	8.885	41.316	50.201	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.900	0.790	0.100	0.703	3.713	4.416	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.212	6.403	7.615	
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			9.400			9.400	50.500	59.900	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							8.885			
	<b>Deduction of 250mm dia pipe</b>										
	pipe area	1.00		0.785	8.900	0.270	0.270	0.509			
	soling							0.000			
	PCC							0.703			
	Murrum bedding							1.212			
								7.672	34.913	42.585	
	<b>Net Qty = A - B</b>										
	<b>SIN9 TO SIN10</b>										
	CH67.10	588.390	587.160	587.060			1.330	1.383			
	CH73.30	588.730	587.395	587.295			1.435				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.200	0.790	1.233	4.089	50.201	54.290	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.200	0.790	0.150	0.498	0.000	0.498	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.800	0.790	0.100	0.379	4.416	4.795	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.654	7.615	8.269	
	Extra Item No.9.2 (d):- Lowering & Laying of SW pipe of 250mm Dia	1			5.300			5.300	59.900	65.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							4.587			
	<b>Deduction of 250mm dia pipe</b>										



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :- 075  
Page No. :-

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 Nakshtrayadi (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

6 of 9

Sindhi colony-2(Balaji Nagar) SW Pipe, Measurement Line

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	pipe area	1.00		0.785	4.800	0.270	0.270			0.275	
	soling									0.000	
	PCC									0.000	
	Murram bedding									0.379	
										0.654	
										3.933	
										42.585	
										46.519	
	<b>SIN10 TO SIN11</b>										
	CH73.30	588.730	587.395	587.295			1.435	1.268			
	CH87.00	589.120	588.120	588.020			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.700	0.790	1.118	10.329		54.290	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.700	0.790	0.150	1.386		0.498	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)				12.300	0.790	0.100	0.972		4.795	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.676		8.269	
	Extra Item No.9.2 (d):- Lowering & Laying of SW-pipe of 250mm Dia	1			12.800			12.800		65.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							11.716			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	12.300	0.270	0.270	0.704			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.972			
								1.676			
								10.040		46.519	
										56.559	
	<b>SIN11 TO SIN12</b>										
	CH87.00	589.120	588.120	588.020			1.100	1.050			
	CH95.40	589.240	588.340	588.240			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.790	0.900	4.550		64.619	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.790	0.150	0.758		1.884	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)				7.000	0.790	0.100	0.553		5.767	
		1								6.320	



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