



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 (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 Nakshtravadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-

Page No. :-

077

6 of 11

Vishrant Nagar, Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Qty.
		GL	IL	EX.L							
	CH153.10	597.570	595.820	595.720			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			14.300	1.215	1.500	26.062	210.590	236.652	
	(b) For Lift 1.5m to 3.0m	1			14.300	0.815	0.253	2.949	31.114	34.063	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.300	0.815	0.100	1.247	10.020	11.267	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.439	19.597	22.036	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			15.800			15.800	126.950	142.750	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							29.010			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	15.300	0.315	0.315	1.19			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							1.25			
								2.44			
								26.57	222.11	248.68	
	Net Qty = A - B										
	VN 10										
	CH153.10	597.570	595.820	595.720			1.850				
	CH166.00	597.570	595.870	595.770			1.800	1.825			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.200	1.215	1.500	18.590	236.652	255.241	
	(b) For Lift 1.5m to 3.0m	1			10.200	0.815	0.325	2.702	34.063	36.764	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.200	0.815	0.100	0.913	11.267	12.180	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.785	22.036	23.821	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.700			11.700	142.750	154.450	
	Item No. 30 :- Refilling the excavated trenches ...										



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Book No. :- **073**
Page No. :-

7 of 11

Vishranti Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Qty
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Total Excavation=							21.291			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.200	0.315	0.315	0.87			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.91			
								1.79			
								Net Qty = A - B			
								19.51	248.68	268.18	
	VN 11										
	CH166.00	597.570	595.870	595.770			1.800				
	CH179.00	597.660	596.010	595.910			1.750	1.775			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.300	1.215	1.500	18.772	255.241	274.013	
	(b) For Lift 1.5m to 3.0m	1			10.300	0.815	0.275	2.308	36.764	39.073	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.300	0.815	0.100	0.921	12.180	13.101	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							1.801	23.821	25.622	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.800			11.800	154.450	166.250	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							21.080			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.300	0.315	0.315	0.88			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.92			
								1.80			
								Net Qty = A - B			
								19.28	268.18	287.46	
	VN 12										
	CH179.00	597.660	596.010	595.910			1.750				
	CH190.10	597.810	596.130	596.030			1.780	1.765			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.400	1.215	1.500	15.309	274.013	289.322	
	(b) For Lift 1.5m to 3.0m	1			8.400	0.815	0.265	1.814	39.073	40.887	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.400	0.815	0.100	0.766	13.101	13.867	



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Book No. :-

Page No. :- 079

8 of 11

Vishrantl Nagar, Measurement MB

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 excavated material for a lead beyond initial lead up to 10km average rate							1.498	25.622	27.120	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			9.900			9.900	166.250	176.150	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.123			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	9.400	0.315	0.315	0.73			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.77			
								1.50			
								Net Qty = A - B	15.62	287.46	303.09
	VN 13										
	CH190.10	597.810	596.130	596.030			1.780				
	CH214.10	597.880	596.280	596.180			1.700	1.740			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.300	1.215	1.500	38.819	289.322	328.141	
	(b) For Lift 1.5m to 3.0m	1			21.300	0.815	0.240	4.166	40.887	45.053	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			22.300	0.815	0.100	1.817	13.867	15.685	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.554	27.120	30.675	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			22.800			22.800	176.150	198.950	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							42.986			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	22.300	0.315	0.315	1.74			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.82			
								3.55			
								Net Qty = A - B	39.43	303.09	342.52
	VN 14										
	CH214.10	597.880	596.380	596.280			1.600				



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Book No. :- 080
Page No. :-

9 of 11

Vishranti Nagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	CH237.60	598.170	596.620	596.520			1.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.800	1.215	1.500	37.908		328.141	366.049
	(b) For Lift 1.5m to 3.0m	1			20.800	0.815	0.125	2.119		45.053	47.172
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.800	0.815	0.100	1.777		15.685	17.461
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							3.475		30.675	34.150
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			22.300			22.300		198.950	221.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							40.027			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	21.800	0.315	0.315	1.70			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.78			
								3.47			
								Net Qty = A - B		342.52	379.07
	VN 15										
	CH237.60	598.170	596.720	596.620			1.550				
	CH253.40	598.470	596.820	596.720			1.750	1.650			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.100	1.215	1.500	23.875		366.049	389.924
	(b) For Lift 1.5m to 3.0m	1			13.100	0.815	0.150	1.601		47.172	48.774
	Item No. 7 :- Filling in plnth and floors/ trenches etc complete.(bedding)	1			14.100	0.815	0.100	1.149		17.461	18.611
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							2.247		34.150	36.397
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			14.600			14.600		221.250	235.850
	Item No. 30 :- Refilling the excavated trenches ...										



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Book No. :-
Page No. :- 083

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

1 of 8

Vishranti Nagar, Chamber Measurement

11th RA BILL MEASUREMENTS OF CHAMBERS VISHRANTI NAGAR

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 mt. chamber up to Depth of 2.0 mt. 0.9+0.5+0.3+0.3=2.0m										
	Area for Square chamber up to Depth of 2m= 2 * 2=4m										
	VN-01						1.900				
	CH0.00	595.730	594.080	593.830							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.500	4.710	0.000	4.710	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.400	1.256	0.000	1.256	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.220	0.000	2.220	
	Item No. 30 :- Refilling the excavated trenches ...							5.966			
	Total Excavation(A)=										
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.650	1.74			
	soling			0.785	1.56	1.56	0.25	0.48			
	PCC	1.00						0.00			
	Murrum bedding							2.22			
	Total (B)							3.75	0.00	3.75	
	Net Qty = A - B										
	VN 02										
	CH16.50	596.080	594.280	594.030			2.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.500	4.710	4.710	9.420	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.550	1.727	1.256	2.983	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.379	2.220	4.599	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.437			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.800	1.90			
	soling			0.785	1.56	1.56	0.25	0.48			
	PCC	1.00						0.00			
	Murrum bedding							2.38			
	Total (B)							4.06	3.75	7.80	
	Net Qty = A - B										



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Book No. :- 084
Page No. :-

2 of 8

Vishranti Nagar, Chamber Measurement

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 1.20m dia Manhole (upto a depth of 2.0m)- 1.20+0.23+0.23+0.5+0.5=2.26m										
	Area for Manhole=2.26*2.26=7.076m										
	VN 03										
	CH31.70	596.350	594.630	594.380			1.970				
	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	7.076	1.500	8.332	9.420	17.752	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.470	2.611	2.983	5.594	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.347	4.599	7.947	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.942			
	Deduction										
	Brick work	1			0.785	1.390	1.390	1.720	2.609		
	PCC	1			0.785	1.940	1.940	0.250	0.739		
	Soling	1			0.785	1.940	1.940	0.000	0.000		
								3.347			
	Net Qty = A - B							7.595	7.804	15.398	
	VN 04										
	CH46.00	596.520	594.870	594.620			1.900				
	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	7.076	1.500	8.332	17.752	26.083	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.400	2.222	5.594	7.815	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.241	7.947	11.188	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.553			
	Deduction										
	Brick work	1			0.785	1.390	1.390	1.650	2.503		
	PCC	1			0.785	1.940	1.940	0.250	0.739		
	Soling	1			0.785	1.940	1.940	0.000	0.000		
								3.241			
	Net Qty = A - B							7.312	15.398	22.710	
	VN 05										
	CH71.00	596.770	594.920	594.670			2.100				
	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	7.076	1.500	8.332	26.083	34.415	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.600	3.333	7.815	11.148	



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Book No. :-
Page No. :- **085**

3 of 8

Vishranti Nagar, Chamber Measurement

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 excavated							3.544		11.188	14.732
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.664			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.850	2.806			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.544			
	Net Qty = A - B							8.120		22.710	30.830
	VN 06										
	CH90.00	596.800	595.100	594.850			1.950				
	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	7.076	1.500	8.332		34.415	42.746
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.450	2.499		11.148	13.647
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.317		14.732	18.049
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.831			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.700	2.578			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.317			
	Net Qty = A - B							7.514		30.830	38.344
	VN 07										
	CH103.00	596.980	595.130	594.880			2.100				
	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	7.076	1.500	8.332		42.746	51.078
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.600	3.333		13.647	16.980
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.544		18.049	21.594
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.664			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.850	2.806			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.544			
	Net Qty = A - B							8.120		38.344	46.464



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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, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-
Page No. **087**

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

5 of 8

Vishrantl Nagar, Chamber Measurement

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=						11.109				
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.750	2.654			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
							3.393				
	Net Qty = A - B						7.716		61.512	69.228	
	VN 11										
	CH166.00	597.570	595.870	595.620			1.950				
	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	7.076	1.500	8.332	76.072	84.404	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.450	2.499	24.784	27.283	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.317	31.628	34.945	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						10.831				
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.700	2.578			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
							3.317				
	Net Qty = A - B						7.514		69.228	76.742	
	VN 12										
	CH179.00	597.660	596.010	595.760			1.900				
	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	7.076	1.500	8.332	84.404	92.735	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.400	2.222	27.283	29.505	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.241	34.945	38.186	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						10.553				
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.650	2.503			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
							3.241				
	Net Qty = A - B						7.312		76.742	84.054	
	VN 13										
	CH190.10	597.810	596.130	595.880			1.930				



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Book No. :- 088

Page No. :-

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ah. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and 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 from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

6 of 8

Vishranti Nagar, Chamber Measurement

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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	1.500	8.332			
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.430	2.388	92.735	101.067	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.287	29.505	31.893	
	Item No. 30 :- Refilling the excavated trenches ...								38.186	41.473	
	Total Excavation=							10.720			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.680	2.548			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.287			
	Net Qty = A - B							7.433	84.054	91.487	
	VN 14										
	CH214.10	597.880	596.280	596.030			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			0.785	7.076	1.500	8.332	101.067	109.398	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.350	1.944	31.893	33.837	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.165	41.473	44.638	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.276			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.600	2.427			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.165			
	Net Qty = A - B							7.110	91.487	98.597	
	VN 15										
	CH237.60	598.170	596.620	596.370			1.800				
	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	7.076	1.500	8.332	109.398	117.730	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.300	1.666	33.837	35.504	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.089	44.638	47.728	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.998			



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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 (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 Nakshtravadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 089

Page No. :-

7 of 8

Vishrant Nagar, Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.550	2.351			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.089			
	Net Qty = A - B							6.908	98.597	105.506	
	VN 16										
	CH253.40	598.470	596.820	596.570			1.900				
	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	7.076	1.500	8.332	117.730	126.061	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.400	2.222	35.504	37.725	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.241	47.728	50.969	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.553			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.650	2.503			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.241			
	Net Qty = A - B							7.312	105.506	112.818	
	VN 17										
	CH269.00	598.610	597.110	596.860			1.750				
	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	7.076	1.500	8.332	126.061	134.393	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.250	1.389	37.725	39.114	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.014	50.969	53.983	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.720			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.500	2.275			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.014			
	Net Qty = A - B							6.706	112.818	119.524	
	VN 18										
	CH300.30	598.620	597.520	597.270			1.350				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum 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 for Aurangabad City.

Book No. :-

079

Page No. :-

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

AMC/Work Order/CI/HDSSMT/2014/184 Date 01.07.2014

8 of 8

Vishranti Nagar, Chamber Measurement

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			0.785	7.076	1.350	7.498		134.393	141.891
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.000	0.000		39.114	39.114
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.407		53.983	56.390
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.498			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.100	1.668			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								2.407			
	Net Qty = A - B							5.091		119.524	124.615



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :-

091

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

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

1 of 1

Vishranti Nagar, CHEMBER

12th R A BILL MEASUREMENTS CHEMBER VISHRANTI NAGAR

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebate Qty for 30 cm
		No			Depth of 1.5 mtr		
		GL/MTL	IL	DEPTH	For per 30 cm		
A	Extra Item No.02: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete						
1	VN-01	595.730	594.080	1.650	1.500	0.15	1.50
2	VN 02	596.080	594.280	1.800	1.500	0.30	
	Total					0.45	1.50
SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebate Qty for 50 cm
		No			Depth of 2.0 mtr		
		GL	IL	DEPTH	For per 50 cm		
B	Item No. : 21 Providing and constructing on sewer.BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M etc., complete						
1	VN 03	596.35	594.63	1.720	2	-0.280	-11.29
2	VN 04	596.52	594.87	1.650	2	-0.350	
3	VN 05	596.77	594.92	1.850	2	-0.150	
4	VN 06	596.8	595.1	1.700	2	-0.300	
5	VN 07	596.98	595.13	1.850	2	-0.150	
6	VN 08	597.19	595.34	1.850	2	-0.150	
7	VN 09	597.23	595.675	1.555	2	-0.445	
8	VN 10	597.57	595.82	1.750	2	-0.250	
9	VN 11	597.57	595.87	1.700	2	-0.300	
10	VN 12	597.66	596.01	1.650	2	-0.350	
11	VN 13	597.81	596.13	1.680	2	-0.320	
12	VN 14	597.88	596.28	1.600	2	-0.400	
13	VN 15	598.17	596.62	1.550	2	-0.450	
14	VN 16	598.47	596.82	1.650	2	-0.350	
15	VN 17	598.61	597.11	1.500	2	-0.500	
16	VN 18	598.62	597.52	1.100	2	-0.900	
	Total					-5.645	-11.29



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :- 092
Page No. :-

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

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Vishranti Nagar, Qty Abstract

QUANTITY ABSTRACT RA 17th

VISHRANTI NAGAR

SR NO	Discription	MB/PG	ITEM 1		ITEM 7	ITEM 11	ITEM 12		ITEM 13	ITEM 21	ITEM 21.1		ITEM 30	Extra Item 2	Extra Item 2.a
			0-1.5	1.5-3.0			315mm	315mm			Rebate	Rebate			
1	For Pipe		438.327	49.562	22.156	43.331	280.350	280.350		16.00	-11.29	444.558			
2	For Manhole		141.891	39.114		56.390						124.615	2.000		
	Total		580.22	88.68	22.16	99.72	280.35	280.35		16.00	-11.29	569.17	2.00		1.500

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Date

10



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

Book No. :-

Page No. :-

093

1 of 17

ST Colony Thakarenagar, Measurement MB

12th RA BILL MEASUREMENTS DWC PIPE ST COLONY THAKARENAGAR

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Qty.	
	DWC - 315 mm Dia										
	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										
	LA 24.13										
	CH0.00	592.350	590.670	590.570			1.780	1.655			
	CH11.50	592.330	590.900	590.800			1.530				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	0.550	6.348	0.000	6.348	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	0.950	10.965	0.000	10.965	
	(b) For Lift 1.5m to 3.0m	1			9.5	0.815	0.155	1.200	0.000	1.200	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.8	0.815	0.100	0.799	0.000	0.799	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.562	0.000	1.562	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			10.30			10.300	0.000	10.300	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.514			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	9.80	0.315	0.315	0.76			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.80			
								1.56			
	Net Qty = A - B							16.95	0.00	16.95	
	LA 24.13 01										
	CH11.50	592.330	590.900	590.800			1.530	1.610			
	CH24.50	592.550	590.960	590.860			1.690				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.7	1.215	0.550	7.150	6.348	13.499	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.7	1.215	0.950	12.350	10.965	23.316	





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

Book No. :-

Page No. :-

093

1 of 17

ST Colony Thakarenagar, Measurement MB

12th RA BILL MEASUREMENTS DWC PIPE ST COLONY THAKARENAGAR

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	DWC - 315 mm Dia										
	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										
	LA 24.13										
	CH0.00	592.350	590.670	590.570			1.780	1.655			
	CH11.50	592.330	590.900	590.800			1.530				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	0.550	6.348	0.000	6.348	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.5	1.215	0.950	10.965	0.000	10.965	
	(b) For Lift 1.5m to 3.0m	1			9.5	0.815	0.155	1.200	0.000	1.200	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.8	0.815	0.100	0.799	0.000	0.799	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.562	0.000	1.562	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			10.30			10.300	0.000	10.300	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.514			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	9.80	0.315	0.315	0.76			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.80			
								1.56			
								Net Qty = A - B	0.00	16.95	
	LA 24.13 01										
	CH11.50	592.330	590.900	590.800			1.530	1.610			
	CH24.50	592.550	590.960	590.860			1.690				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.7	1.215	0.550	7.150	6.348	13.499	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.7	1.215	0.950	12.350	10.965	23.316	



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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

Book No. :- 094
Page No. :-

ST Colony Thakarenagar, Measurement MB

2 of 17

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	(b) For Lift 1.5m to 3.0m	1			10.7	0.815	0.110	0.959		1.200	2.159
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.3	0.815	0.100	0.921		0.799	1.720
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.801		1.562	3.363
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.80			11.800		10.300	22.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.460			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.30	0.315	0.315	0.88			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.92			
								1.80			
								18.66		16.95	35.61
	Net Qty = A - B										
	LA 24.13 02										
	CH24.50	592.550	590.960	590.860			1.690	1.605			
	CH37.00	592.470	591.050	590.950			1.520				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.2	1.215	1.100	13.632		13.499	27.131
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.2	1.215	0.400	4.957		23.316	28.273
	(b) For Lift 1.5m to 3.0m	1			10.2	0.815	0.105	0.873		2.159	3.032
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.8	0.815	0.100	0.880		1.720	2.600
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.721		3.363	5.085
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.30			11.300		22.100	33.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.462			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	10.80	0.315	0.315	0.84			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.88			
								1.72			
								17.74		35.61	53.35
	Net Qty = A - B										
	LA 24.13 03										
	CH37.00	592.470	591.050	590.950			1.520	1.470			



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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

Book No. :-

Page No. :-

095

3 of 17

ST Colony Thakarenagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	CH53.40	592.500	591.180	591.080			1.420				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.9	0.815	1.100	12.417		27.131	39.547
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.9	0.815	0.370	4.176		28.273	32.450
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.5	0.815	0.100	1.178		2.600	3.778
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.303		5.085	7.388
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			15.05			15.050		33.400	48.450
	Item No. 30 :- Refilling the excavated trenches ...							16.593			
	Total Excavation=										
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	14.45	0.315	0.315	1.13			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.18			
								2.30			
								14.29		53.35	67.64
	Net Qty = A - B										
	LA 24.13 04										
	CH53.40	592.500	591.180	591.080			1.420	1.465			
	CH74.65	592.660	591.250	591.150			1.510				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.5	0.815	1.050	15.789		39.547	55.336
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.5	0.815	0.415	6.240		32.450	38.690
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.1	0.815	0.100	1.553		3.778	5.330
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.036		7.388	10.424
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			19.75			19.750		48.450	68.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.029			



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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 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

Book No. :- 096
Page No. :-

4 of 17

ST Colony Thakarenagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	19.05	0.315	0.315	1.48			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.55			
								3.04			
								18.99	67.64	86.63	
	Net Qty = A - B										
	LA 24.13 05										
	CH74.65	592.660	591.250	591.150			1.510	1.975			
	CH101.95	593.780	591.440	591.340			2.440				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			24.5	1.215	1.300	38.698	55.336	94.034	
	Item No. 2 :- Excavation for foundation/pipe trenches In Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			24.5	1.215	0.200	5.954	38.690	44.643	
	(b) For Lift 1.5m to 3.0m	1			24.5	0.815	0.475	9.485	3.032	12.517	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.1	0.815	0.100	2.046	5.330	7.376	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.001	10.424	14.425	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			25.80			25.800	68.200	94.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							54.136			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	25.10	0.315	0.315	1.96			
	soling							0.00			
	PCC							0.00			
	Murram bedding							2.05			
								4.00			
	Net Qty = A - B							50.14	86.63	136.77	
	LA 24.13 06										
	CH101.95	593.780	591.440	591.340			2.440	2.620			
	CH134.95	594.250	591.550	591.450			2.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			30.2	1.215	1.250	45.866	94.034	139.900	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			30.2	1.215	0.250	9.173	44.643	53.817	
	(b) For Lift 1.5m to 3.0m	1			30.2	0.815	1.120	27.567	12.517	40.083	



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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 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

Book No. :- 098
Page No. :-

6 of 17

ST Colony Thakarenagar, Measurement MB

Table with columns: Date, Particulars of work, DETAILS (GL, No IL, EX.L, L, B, D), Content of arrears, Last measurement (Page, Qty.), Total Upto Date Quantity. Includes items for excavation, filling, and transportation of earth.



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Book No. :-

Page No. :- **099**

7 of 17

ST Colony Thakarenagar, Measurement MB

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. 13 :- (c) Lowering & Laying of Polyethylene DWVC pipe of 250mm Dia	1			35.00			35.000		0.000	35.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							92.886			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	34.300	0.250	0.250	1.683			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.573			
								4.255			
	Net Qty = A - B							88.630		399.432	488.062
	LA 24.13 10										
	CH244.40	594.850	592.110	592.010				2.840			
	CH285.20	594.440	592.160	592.060				2.380		2.610	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.0	1.150	1.500	65.550		320.778	386.328
	(b) For Lift 1.5m to 3.0m	1			38.0	0.750	0.800	22.800		39.557	62.357
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			38.0	0.750	0.310	8.835		108.427	117.262
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.6	0.750	0.100	2.895		18.045	20.940
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							4.789		34.516	39.305
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWVC pipe of 250mm Dia	1			39.30			39.300		35.000	74.308
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							97.185			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	38.600	0.250	0.250	1.894			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.895			
								4.789			
	Net Qty = A - B							92.396		488.062	580.458
	LA 24.13 11										
	CH285.20	594.440	592.160	592.060				2.380			
	CH306.60	594.320	592.270	592.170				2.150		2.265	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.6	1.150	1.250	26.738		386.328	413.065
	(b) For Lift 1.5m to 3.0m	1			18.6	0.750	0.450	6.277		62.357	68.634



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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

Book No. :- **100**
Page No. :-

8 of 17

ST Colony Thakarenagar, Measurement MB

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			18.6	1.150	0.150	3.209	53.817	57.025	
	(b) For Lift 1.5m to 3.0m	1			18.6	0.750	0.315	4.394	117.262	121.656	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.6	0.750	0.100	1.395	0.000	1.395	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.2	0.750	0.100	1.440	20.940	22.380	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.382	39.305	41.687	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			19.90			19.900	74.300	94.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							42.013			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	19.200	0.250	0.250	0.942			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.440			
								2.382			
								Net Qty = A - B	39.631	580.458	620.089
	LA 24.13 12										
	CH306.60	594.320	592.270	592.170			2.150				
	CH321.00	594.460	592.340	592.240			2.220	2.185			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.6	1.150	1.250	16.675	413.065	429.740	
	(b) For Lift 1.5m to 3.0m	1			11.6	0.750	0.400	3.480	68.634	72.114	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.6	1.150	0.150	2.001	57.025	59.026	
	(b) For Lift 1.5m to 3.0m	1			11.6	0.750	0.285	2.479	121.656	124.135	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.6	0.750	0.100	0.870	1.395	2.265	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.2	0.750	0.100	0.915	22.380	23.295	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.514	41.687	43.200	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			12.90			12.900	94.200	107.100	
	Item No. 30 :- Refilling the excavated trenches ...										





AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :- **101**
Page No. :-

9 of 17

ST Colony Thakarenagar, Measurment MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Total Excavation=							25.505			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	12.200	0.250	0.250	0.599			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.915			
								1.514			
								23.992	620.089	644.081	
	LA 24.13 13										
	CH321.00	594.460	592.340	592.240			2.220	2.180			
	CH341.40	594.400	592.360	592.260			2.140				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.6	1.150	1.250	25.300	429.740	455.040	
	(b) For Lift 1.5m to 3.0m	1			17.6	0.750	0.400	5.280	72.114	77.394	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.6	1.150	0.150	3.036	59.026	62.062	
	(b) For Lift 1.5m to 3.0m	1			17.6	0.750	0.280	3.696	124.135	127.831	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			17.6	0.750	0.100	1.320	2.265	3.585	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.2	0.750	0.100	1.365	23.295	24.660	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.258	43.200	45.458	
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			18.90			18.900	107.100	126.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							38.632			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	18.200	0.250	0.250	0.893			
	soling							0.000			
	PCC							0.000			
	Murram bedding							1.365			
								2.258			
								36.374	644.081	680.455	
	LA 24.13 14										
	CH341.40	594.400	592.360	592.260			2.140	2.130			
	CH362.00	594.590	592.570	592.470			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			17.8	1.150	1.250	25.588	455.040	480.628	
	(b) For Lift 1.5m to 3.0m	1			17.8	0.750	0.400	5.340	77.394	82.734	





AURANGABAD MUNICIPAL CORPORATION.
(From No.52)

Measurement Book

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Book No. :-

Page No. :-

103

11 of 17

ST Colony Thakarenagar, Measurment MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	Total Excavation=									35.192	
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	17.200	0.250	0.250	0.844			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.290			
								2.134			
	Net Qty = A - B							33.058	716.576	749.634	
	LA 24.13 16										
	CH381.40	594.770	592.830	592.730			2.040	1.970			
	CH395.30	594.750	592.950	592.850			1.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.1	1.150	1.250	15.956	504.490	520.447	
	(b) For Lift 1.5m to 3.0m	1			11.1	0.750	0.300	2.497	87.714	90.212	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.1	1.150	0.150	1.915	67.996	69.911	
	(b) For Lift 1.5m to 3.0m	1			11.1	0.750	0.170	1.415	133.143	134.558	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.1	0.750	0.100	0.832	6.165	6.997	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.7	0.750	0.100	0.877	27.330	28.208	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.452	49.875	51.326	
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			12.40			12.400	163.000	175.400	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.616			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	11.700	0.250	0.250	0.574			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.877			
								1.452			
	Net Qty = A - B							21.165	749.634	770.798	
	LA 24.13 17										
	CH395.30	594.750	592.950	592.850			1.900	2.060			
	CH407.50	595.100	592.980	592.880			2.220				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.6	1.150	1.400	15.537	520.447	535.983	
	(b) For Lift 1.5m to 3.0m	1			9.6	0.750	0.560	4.053	90.212	94.265	



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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 CRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :-
Page No. :-

104

12 of 17

ST Colony Thakarenagar, Measurement MB

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. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.6	0.750	0.100	0.724		6.997	7.721
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.3	0.750	0.100	0.769		28.208	28.977
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.272		51.326	52.598
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			10.85			10.850		175.400	186.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.313			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	10.250	0.250	0.250	0.503			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.769			
								1.272			
								Net Qty = A - B		770.798	789.840
	LA 24.13 18										
	CH407.50	595.100	593.030	592.930			2.170				
	CH420.60	595.162	593.060	592.960			2.202	2.186			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.8	1.150	1.400	17.388		535.983	553.371
	(b) For Lift 1.5m to 3.0m	1			10.8	0.750	0.686	5.557		94.265	99.821
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.8	0.750	0.100	0.810		7.721	8.531
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.4	0.750	0.100	0.855		28.977	29.832
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.414		52.598	54.012
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			12.00			12.000		186.250	198.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							23.755			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	11.400	0.250	0.250	0.559			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.855			
								1.414			
								Net Qty = A - B		789.840	812.180
	LA 24.13 19										



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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

Book No. :-

Page No. :-

105

13 of 17

ST Colony Thakarenagar, Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Qty.	
		GL	IL	EX.L							
	CH420.60	595.162	593.112	593.012			2.150	2.245			
	CH435.80	595.390	593.150	593.050			2.340				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.9	1.150	1.400	20.769	553.371	574.140	
	(b) For Lift 1.5m to 3.0m	1			12.9	0.750	0.745	7.208	99.821	107.029	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			12.9	0.750	0.100	0.967	8.531	9.499	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.5	0.750	0.100	1.013	29.832	30.844	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.675	54.012	55.687	
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			14.10			14.100	198.250	212.350	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.944			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	13.500	0.250	0.250	0.662			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.013			
								1.675			
	Net Qty = A - B							27.270	812.180	839.450	
	LA 24.13 20										
	CH435.80	595.390	593.160	593.060			2.330	2.292			
	CH460.60	595.375	593.222	593.122			2.253				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			22.5	1.150	1.400	36.225	574.140	610.365	
	(b) For Lift 1.5m to 3.0m	1			22.5	0.750	0.792	13.365	107.029	120.394	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			22.5	0.750	0.100	1.688	9.499	11.186	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.1	0.750	0.100	1.733	30.844	32.577	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.866	55.687	58.553	
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			23.70			23.700	212.350	236.050	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							51.278			



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