

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. :- 043
Page No. :- 043

Joint Venture

9

Shivshankar Colony-03 Chamber Meas.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								2.938			
		Net Qty = A - B						6.505	52.389	58.893	
	SHIV 9										
	CH97.70	576.960	575.460	575.210			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	0.800	4.443	61.937	66.380	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.200	1.111	1.111	2.222	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.650	3.610	23.010	26.620	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.050	0.278	3.295	3.573	
	Item No. : 11 Transportation of earth Transportation							3.014	30.460	33.474	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.442			
	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						6.429	58.893	65.322	
	Excavation of Chamber - For 0.9 mt. Dia of chamber up to Depth of 1.5 mt.- 0.9+0.5+0.3+0.3=2.0m										
	Bredth for chamber up to Depth of 1.5m= 2 * 2=4m										
	SHIV 10										
	CH112.70	577.290	575.890	575.640			1.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.800	2.512	66.380	68.892	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.150	0.471	2.222	2.693	
	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	0.650	2.041	26.620	28.661	
	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	0.050	0.157	3.573	3.730	



2

10

Shivshankar Colony-03 Chamber Meas.

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges						1.956		33.474	35.430	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						5.181				
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.48				
	soiling						0.00				
	PCC	1.00		0.785	1.560	1.560	0.48				
	Murum bedding						0.00				
	Total (B)						1.96				
				Net Qty = A - B			3.22		65.32	68.55	
	SHIV 11										
	CH126.70	577.510	576.210	575.960			1.550				
	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	0.800	2.512	68.892	71.404	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.050	0.157	2.693	2.850	
	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	0.650	2.041	28.661	30.702	
	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	0.050	0.157	3.730	3.887	
	Item No. : 11 Transportation of earth Transportation charges						1.851		35.430	37.281	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						4.867				
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.37				
	soiling						0.00				
	PCC	1.00		0.785	1.560	1.560	0.48				
	Murum bedding						0.00				
	Total (B)						1.85				
				Net Qty = A - B			3.02		68.55	71.56	
	SHIV 12										
	CH143.10	577.870	576.670	576.420			1.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.750	2.355	71.404	73.759	
	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	0.650	2.041	30.702	32.743	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



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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.

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

11

Shivshankar Colony-03 Chamber Meas.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.050	0.157		3.887	4.044
	Item No. : 11 Transportation of earth Transportation charges							1.745		37.281	39.026
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.553			
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.200	1.27			
	soling							0.00			
	PCC	1.00		0.785	1.560	1.560	0.250	0.48			
	Murram bedding							0.00			
	Total (B)							1.75			
		Net Qty = A - B						2.81		71.56	74.37
	Excavation of Chamber - For 0.9m length of square chamber up to Depth of 1.5 mt.-0.9+0.5+0.3+0.3=2.0m										
	Bredth for Square chember up to Depth of 1.5m= 0.6+0.5+0.3+0.3=1.7m										
	SHIV 7.1										
	CH8.20	575.980	575.200	574.950			1.030				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.330	1.122		73.759	74.881
	(b) For Lift 1.5 to 3.0m	1			2.000	1.700	0.00	0.000		2.850	2.850
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.650	2.210		32.743	34.953
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.050	0.170		4.044	4.214
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.721		39.026	40.747
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.502			
	Deduction										
	Brick work	1.00		1	1.40	1.10	0.780	1.20			
	soling							0.00			
	PCC	1.00		1	1.60	1.30	0.25	0.52			
	Murram bedding							0.00			
	Total (B)							1.72			
		Net Qty = A - B						1.78		74.37	76.15



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Shivshankar Colony-03 CHEMBER

9th R A BILL CHEMBER DETAILS SHIVSHANKAR COLONY-03

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebate Qty for 30 cm	
		No			Depth of 1.5			
		GL	IL	DEPTH	For per 30 cm			
A	Extra Item No. :2 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							
	PART-I							
1	SHI 1	581.480	580.380	1.100	1.5	-0.400	-13.15	
2	SHI 2	581.540	580.550	0.990	1.5	-0.510		
3	SHI 3	581.640	580.695	0.945	1.5	-0.555		
4	SHI 4	581.930	580.920	1.010	1.5	-0.490		
5	SHI 5	582.040	581.280	0.760	1.5	-0.740		
	PART-II							
6	SHIV 5.1	575.680	574.830	0.850	1.5	-0.650		
7	SHIV 10	577.290	575.890	1.400	1.5	-0.100		
8	SHIV 11	577.510	576.210	1.300	1.5	-0.200		
9	SHIV 12	577.870	576.670	1.200	1.5	-0.300		
	Total					-3.945	-13.15	

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						
	PART-II						
1	SHIV 1	573.640	572.640	1.000	2.000	-1.000	-13.360
2	SHIV 2	574.020	572.870	1.150	2.000	-0.850	
3	SHIV 3	574.410	573.450	0.960	2.000	-1.040	
4	SHIV 4	574.990	573.620	1.370	2.000	-0.630	
5	SHIV 5	575.580	574.130	1.450	2.000	-0.550	
6	SHIV 6	575.760	574.510	1.250	2.000	-0.750	
7	SHIV 7	575.970	574.780	1.190	2.000	-0.810	
8	SHIV 8	576.540	575.090	1.450	2.000	-0.550	
9	SHIV 9	576.960	575.460	1.500	2.000	-0.500	
	TOTAL					-6.680	-13.360

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebate Qty for 30 cm
		No			Depth of 1.5		
		GL	IL	DEPTH	For per 30 cm		
C	Extra Item : Providing and constructing on sewer.BBM manhole 0.9 m X0.6m Size and up to a depth of 1.5 M etc., complete						
1	SHIV 7.1	575.980	575.200	0.780	1.500	-0.72	-2.40
						-0.72	-2.40



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1 Shivshankar Colony-03 BBM

9th R A BILL MEASUREMENTS OF BBM TRENCH

Date	Particulars of work	DETAILS				Content of arrears	Last measurement		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
	Quantity for chamber								
	SHIVSHANKAR COLONY-03 (PART-I)								
A	0.6mx0.45m and 0.23m thickness RECT MH-01Nos. (SHI 4.2)								
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.								
	(a) Long Wall	2	1.060	0.230	0.740	0.361		0.000	0.361
	(b) Short Wall	2	0.450	0.230	0.740	0.153		0.000	0.153
						0.514		0.000	0.514
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.								
	(a) Long Wall	2	0.600		0.740	0.888		0.000	0.888
	(b) Short Wall	2	0.450		0.740	0.666		0.000	0.666
						1.554		0.000	1.554
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.								
	(a) Long Wall	2	1.060		0.740	1.569		0.000	1.569
	(b) Short Wall	2	0.910		0.740	1.347		0.000	1.347
						2.916		0.000	2.916
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.								
	(a) Long Wall Internal	2	0.600	0.000	0.740	0.888		0.000	0.888
	(b) Short Wall Internal	2	0.450	0.000	0.740	0.666		0.000	0.666
	(c) Long Wall External	2	1.060	0.000	0.740	1.569		0.000	1.569
	(d) Short Wall External	2	0.910	0.000	0.740	1.347		0.000	1.347
						4.470		0.000	4.470
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.								
	PCC	1	1.260	1.110	0.150	0.210		0.000	0.210
2	Manhole Cover								
	Extra item 9.8(a) providing & Fixing SFRC manhole cover of Size 0.6mx0.45m					1.000		0.000	1.000
	SHIVSHANKAR COLONY-03 (PART-II)								
B	0.6mx0.45m and 0.23m thickness RECT MH-02 Nos.--Repairing Work(SHIV 9.1 & SHIV9.2) in Two Layer								



J

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 and laying of 150mm dia. HDPE (RCP) pipe line from Golwadi STP for Aurangabad City.

Book No. :
Page No. :- 049

Name of Agency:- M/s Khilari
Authority No. AMC/Ward B&

Date of Measurement	Particulars of
1	2

Shivshankar Colony-03 Quantity Abstract

QUANTITY ABSTRACT
SHIVSHANKAR COLONY-03

SR NO	Description MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7		ITEM 11		ITEM 12		ITEM 13		ITEM 21		ITEM 21.1		ITEM 35		Extra Item 2.a		Extra Item 3.a		Extra Item 4						Extra Item 6		Extra Item No.9.1		Extra Item No.9.2		Extra Item No.9.5		Extra Item No.9.6		Extra Item 9.8	
		0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	0-1.5	1.5-3.0	a	b	c	d	e	f	a	b	110mm	160mm	a	b								
1	For Pipe	104.720	3.270	65.856	0.928	14.985	25.036	88.510	88.510	9.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350		
2	For Manhole	74.881	2.850	34.953	3.314	40.747	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	88.510	
Total		179.602	6.120	100.810	4.242	114.985	65.784	88.510	88.510	9.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350	3.000	3.3.350		

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Page No.	Last Measurement		Total up to Date
	Quantity		
8	9		10

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

Book No. :-
Page No. :-

053

Shivshankar Colony-Measurment LINE

9th R A BILL MEASUREMENTS SW PIPE Shivshankar Colony

S.No.	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	SW PIPE 300 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.300+0.02+0.02+0.5=0.840										
	For Lift 1.5 to 3.00m- 0.305+0.02+0.02+0.5+0.4= 1.240m										
	For Lift 3.0 to 4.5m- 0.305+0.5+0.02+0.02+0.4+0.4= 1.640m										
	Soils to S1										
	(200.00)	573.050	572.250	572.150			0.900	0.900			
	(210.50)	573.100	572.300	572.200			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.500	0.840	0.700	5.586	0.000	5.586	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.500	0.840	0.200	1.596	0.000	1.596	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.800	0.840	0.100	0.823	0.000	0.823	
	Item No. - 11 Transportation of earth Transportation charges including loading &							1.611	0.000	1.611	
	Extra Item 9.2 (e) :-Lowering & Laying of SWG pipe of 300mm Dia	1			10.050			10.050	0.000	10.050	
	Item No. 30 :- Refilling the excavated trenches --										
	Total Excavation-							7.182			
	Deduction of 300mm dia pipe										
	1.00			0.785	9.800	0.320	0.320	0.79			
	1.00							0.00			
	1.00							0.00			
	1.00							0.82			
	1.61							1.61			
	Net Qty = A - B							5.57	0.00	5.57	
	(210.50)	573.100	572.300	572.200			0.900	0.930			
	(210.50)	573.210	572.350	572.250			0.960				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										



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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			6.100	0.840	0.730	3.741		5.586	9.327
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.100	0.840	0.200	1.025		1.596	2.621
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.700	0.840	0.100	0.563		0.823	1.386
	Item No. : 11 Transportation of earth Transportation charges							1.101		1.611	2.712
	Extra Item 9.2 (e) :-Lowering & Laying of SWG pipe of 300mm Dia	1			7.200			7.200		10.050	17.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.765			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	6.700	0.320	0.320	0.54			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.56			
								1.10			
								3.66		5.57	9.23
	S2 to S3										
	CH18.60	573.210	572.350	572.250				0.960	1.005		
	CH29.10	573.310	572.360	572.260				1.050			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	0.840	0.805	5.748		9.327	15.074
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	0.840	0.200	1.428		2.621	4.049
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.100	0.840	0.100	0.764		1.386	2.150
	Item No. : 11 Transportation of earth Transportation charges							1.496		2.712	4.208
	Extra Item 9.2 (e) :-Lowering & Laying of SWG pipe of 300mm Dia	1			9.600			9.600		17.250	26.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.176			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	9.100	0.320	0.320	0.73			
	soling							0.00			



J

Name of work:- Development of Underground Sewage 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. :-

052

Page No. :-

Page 3 of 9

Shivshankar Colony-Measurment LINE

Date	Particulars of work	DETAILS					Content of arrears	Last measurment		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	PCC						0.00				
	Murum bedding						0.76				
							1.50				
		Net Qty = A - B						5.68	9.23	14.91	
	S3 to S4										
	CH29.10	573.310	572.360	572.260			1.050				
	CH44.70	573.640	572.640	572.540			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.600	0.840	0.875	9.996	15.074	25.070	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.600	0.840	0.200	2.285	4.049	6.334	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.200	0.840	0.100	1.193	2.150	3.343	
	Item No. : 11 Transportation of earth Transportation charges							2.334	4.208	6.542	
	Extra Item 9.2 (e) :-Lowering & Laying of SWG pipe of 300mm Dia	1			14.700			14.700	26.850	41.550	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.281			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	14.200	0.320	0.320	1.14			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.19			
								2.33			
		Net Qty = A - B						9.95	14.91	24.86	
	S4 to S5										
	CH44.70	573.640	572.640	572.540			1.100				
	CH60.30	574.050	573.030	572.930			1.120	1.110			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.600	0.840	0.910	10.396	25.070	35.466	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.600	0.840	0.200	2.285	6.334	8.618	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.200	0.840	0.100	1.193	3.343	4.536	



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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								2.334	6.542	8.877	
	Extra Item 9.2 (e) :- Lowering & Laying of SWG pipe of 300mm Dia	1			14.700				14.700	41.550	56.250	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=								12.681			
	Deduction of 300mm dia pipe											
	pipe area	1.00		0.785	14.200	0.320	0.320		1.14			
	soling								0.00			
	PCC								0.00			
	Murrum bedding								1.19			
									2.33			
									Net Qty = A - B	10.35	24.86	35.21
	S5 to S6											
	CH60.30	574.050	573.030	572.930			1.120		1.145			
	CH83.20	574.440	573.370	573.270			1.170					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			20.900	0.840	0.945		16.590	35.466	52.056	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			20.900	0.840	0.200		3.511	8.618	12.130	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)											
	(a)	1			21.500	0.840	0.100		1.806	4.536	6.342	
	Item No. : 11 Transportation of earth Transportation charges								3.534	8.877	12.411	
	Extra Item 9.2 (e) :- Lowering & Laying of SWG pipe of 300mm Dia	1			22.000				22.000	56.250	78.250	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=								20.102			
	Deduction of 300mm dia pipe											
	pipe area	1.00		0.785	21.500	0.320	0.320		1.73			
	soling								0.00			
	PCC								0.00			
	Murrum bedding								1.81			
									3.53			
									Net Qty = A - B	16.57	35.21	51.78
	S6 to S7											
	CH83.20	574.440	573.370	573.270			1.170		1.035			
	CH98.70	574.850	574.050	573.950			0.900					



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

Book No. :-
Page No. :-

054

Page 5 of 9

Shivshankar Colony-Measurement LINE

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			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			13.500	0.840	0.835	9.469		52.056	61.525
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.500	0.840	0.200	2.268		12.130	14.398
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			14.100	0.840	0.100	1.184		6.342	7.526
	Item No. : 11 Transportation of earth Transportation charges							2.318		12.411	14.729
	Extra Item 9.2 (e) :-Lowering & Laying of SWG pipe of 300mm Dia	1			14.600			14.600		78.250	92.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.737			
	Deduction of 300mm dia pipe										
	pipe area	1.00		0.785	14.100	0.320	0.320	1.13			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.18			
								2.32			
								9.42		51.78	61.19
	Net Qty = A - B										
	S7 to S8										
	CH98.70	574.850	574.050	573.950			0.900				
	CH119.30	575.450	574.720	574.620			0.830	0.865			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.600	0.790	0.665	9.772		61.525	71.297
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.600	0.790	0.200	2.939		14.398	17.336
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			19.200	0.790	0.100	1.517		7.526	9.043
	Item No. : 11 Transportation of earth Transportation charges							2.616		14.729	17.344
	Extra Item 9.2 (d):-Lowering & Laying of SWG pipe of 250mm Dia	1			19.700			19.700		0.000	19.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.710			



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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. :-

055

Page 6 of 9

Shivshankar Colony-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							
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	19.200	0.270	0.270	1.10			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.52			
								2.62			
		Net Qty = A - B						10.09	61.19	71.29	
	S8 to S9										
	CH119.30	575.450	574.720	574.620			0.830	0.835			
	CH140.30	575.930	575.190	575.090			0.840				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.000	0.790	0.635	9.531	71.297	80.828	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.000	0.790	0.200	3.002	17.336	20.338	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			19.600	0.790	0.100	1.548	9.043	10.592	
	Item No. : 11 Transportation of earth Transportation charges							2.670	17.344	20.014	
	Extra Item 9.2 (d):-Lowering & Laying of SWG pipe of 250mm Dia	1			20.100			20.100	19.700	39.800	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.533			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	19.600	0.270	0.270	1.12			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.55			
								2.67			
		Net Qty = A - B						9.86	71.29	81.15	
	S9 to S10										
	CH140.30	575.930	575.190	575.090			0.840	0.885			
	CH155.00	576.530	575.700	575.600			0.930				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.700	0.790	0.685	6.873	80.828	87.701	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.700	0.790	0.200	2.007	20.338	22.345	



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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 GRPDI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

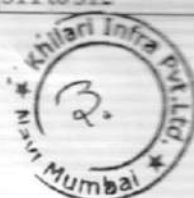
Book No. :-
Page No. :-

056

Page 7 of 9

Shivshankar Colony-Measurment LINE

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		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			13.300	0.790	0.100	1.051		10.592	11.642
	Item No. : 11 Transportation of earth Transportation charges							1.812		20.014	21.826
	Extra Item 9.2 (d):-Lowering & Laying of SWG pipe of 250mm Dia	1			13.800			13.800		39.800	53.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.879			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	13.300	0.270	0.270	0.76			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.05			
								1.81			
								Net Qty = A - B		7.07	81.15
	S10 to S11										88.22
	CH155.00	576.530	575.700	575.600			0.930				
	CH170.90	577.090	576.370	576.270			0.820	0.875			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.900	0.790	0.675	7.412		87.701	95.113
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.900	0.790	0.200	2.196		22.345	24.541
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.500	0.790	0.100	1.146		11.642	12.788
	Item No. : 11 Transportation of earth Transportation charges							1.975		21.826	23.801
	Extra Item 9.2 (d):-Lowering & Laying of SWG pipe of 250mm Dia	1			15.000			15.000		53.600	68.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.608			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	14.500	0.270	0.270	0.83			
	soling							0.00			
	PCC							0.00			
	Murram bedding							1.15			
								1.98			
								Net Qty = A - B		7.63	88.22
	S11 to S12										95.85



g

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 Bancwadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshirawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City

Book No. :-

Page No. :-

057

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	CH170.90	577.090	576.370	576.270			0.820				
	CH187.60	577.700	576.910	576.810			0.890				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.700	0.790	0.655	7.607	95.113	102.720	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.700	0.790	0.200	2.323	24.541	26.864	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			15.300	0.790	0.100	1.209	12.788	13.997	
	Item No. : 11 Transportation of earth Transportation charges							2.084	23.801	25.886	
	Extra Item 9.2 (d):-Lowering & Laying of SWG pipe of 250mm Dia	1			15.800			15.800	68.600	84.400	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.929			
	Deduction of 250mm dia pipe										
	pipe area	1.00			0.785	15.300	0.270	0.270	0.88		
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.21			
								2.08			
								7.84	95.85	103.70	
					Net Qty = A - B						
	S12 to S13										
	CH187.60	577.700	576.910	576.810			0.890				
	CH199.60	578.020	577.240	577.140			0.880	0.885			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.790	0.685	5.412	102.720	108.131	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.790	0.200	1.580	26.864	28.444	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			10.600	0.790	0.100	0.837	13.997	14.834	
	Item No. : 11 Transportation of earth Transportation charges							1.444	25.886	27.330	
	Extra Item 9.2 (d):-Lowering & Laying of SWG pipe of 250mm Dia	1			11.100			11.100	84.400	95.500	



2

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 Nakhshrawadi (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 resting rising main GRP/HD pipe line from Golwadi SPS to Nakhshrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 063
Page No. :-

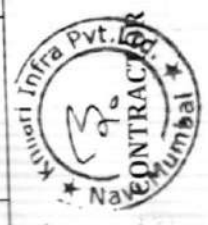
Name of Agency:- M/s. K. K. Kulkarni & Co.
Authority No. AI

State of	
District	
City	
Post	
Pin	

Shivshankar Colony-Quantity Abstract

Page 1 of 1

QUANTITY ABSTRACT																				
Shivshankar Colony																				
SR NO	Discription	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7		ITEM 11		Extra Item 9.1		Extra Item 9.2		ITEM 30		Extra Item 4	
			0-1.5	108.131	0-1.5	28.444	0-1.5	0.000	14.834	27.330	250mm	315mm	250mm	315mm	250mm	315mm	109.245	a	b	
1	For Pipe		108.131	28.444			14.834	27.330	95.500	92.850	95.500	95.500	95.500	95.500	95.500	109.245			1.836	8.566
2	For Manhole		108.131	28.444	0.000	14.834	27.330	95.500	92.850	95.500	95.500	95.500	95.500	95.500	109.245	1.836	8.566			
Total			108.131	28.444	0.000	14.834	27.330	95.500	92.850	95.500	95.500	95.500	95.500	109.245	1.836	8.566				



Authorized Signatory



Project Engineer

PMC



Project Manager

[Signature]
Jr. Engineer

CLIENT

[Signature]
Ex. Engineer

Last urement	Quantity	Total up to Date

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. :- 061

1

Abh

Uttam Nagar-02 Measure 250 SWG.

9th R A BILL MEASUREMENTS SW PIPE UTTAM NAGAR-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 250 mm Dia										
	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										
	UM1 TO UM1.1	Part-I									
	CH0.00	584.600	583.600	583.500			1.100	1.140			
	CH5.30	585.090	584.010	583.910			1.180				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.300	0.790	1.140	2.972	0.000	2.972	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.900	0.790	0.100	0.308	0.000	0.308	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.531	0.000	0.531	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			4.400			4.400	0.000	4.400	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.972			
	Deduction of 250mm dia SW pipe										
	pipe area	1.00		0.785	3.900	0.270	0.270	0.22			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.31			
								0.53			
								2.44	0.00	2.44	
	UM1.1 TO UM2										
	CH5.30	585.090	584.010	583.910			1.180	1.320			
	CH12.50	585.750	584.390	584.290			1.460				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.200	0.790	1.320	5.423	2.972	8.395	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.800	0.790	0.100	0.458	0.308	0.766	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.790	0.531	1.321	



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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 station at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main CRPEM pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP at Aurangabad City.

Book No. - 062
Page No. -

Uttam Nagar-02 Measure 250 SWG.

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			6.300			6.300		4.400	10.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							5.423			
	pipe area	1.00		0.785	5.800	0.270	0.270	0.33			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.46			
								0.79			
								4.63	2.44	7.07	
	UM2 TO UM3										
	CH12.50	585.750	584.390	584.290			1.460	1.518			
	CH20.10	586.110	584.635	584.535			1.575				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.600	0.790	1.500	6.636		8.395	15.031
	(b) For Lift 1.5m to 3.0m	1			5.600	0.790	0.018	0.080		0.000	0.080
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.200	0.790	0.100	0.490		0.766	1.256
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.845		1.321	2.166
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			6.700			6.700		10.700	17.408
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							6.716			
	pipe area	1.00		0.785	6.200	0.270	0.270	0.35			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.49			
								0.84			
								5.87	7.07	12.94	
	UM3 TO UM4										
	CH10.10	586.110	584.635	584.535			1.575	1.668			
	CH26.50	586.570	584.910	584.810			1.760				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.400	1.190	1.500	7.854		15.031	22.885
	(b) For Lift 1.5m to 3.0m	1			4.400	0.790	0.168	0.584		0.080	0.664
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.000	0.790	0.100	0.395		1.256	1.651



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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. :-

063

3

Uttam Nagar-02 Measure 250 SWG.

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B		D	Page	
		GL	IL	EX.L						
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						0.681		2.166	2.847
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			5.500		5.500		17.400	22.900
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=						8.438			
	Deduction of 250mm dia SW pipe									
	pipe area	1.00		0.785	5.000	0.270	0.270	0.29		
	soling							0.00		
	PCC							0.00		
	Murram bedding							0.40		
								0.68		
	UM4 TO UM5									
	CH26.50	586.570	584.910	584.810			1.760			
	CH35.10	586.890	585.290	585.190			1.700	1.730		
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.									
	(a) For Lift 0 to 1.5m	1			6.600	1.190	1.500	11.781	22.885	34.666
	(b) For Lift 1.5m to 3.0m	1			6.600	0.790	0.230	1.199	0.664	1.863
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.200	0.790	0.100	0.569	1.651	2.220
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.981	2.847	3.828
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			7.700			7.700	22.900	30.600
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=							12.980		
	Deduction of 250mm dia SW pipe									
	pipe area	1.00		0.785	7.200	0.270	0.270	0.41		
	soling							0.00		
	PCC							0.00		
	Murram bedding							0.57		
								0.98		
	UM5 TO UM6									
	CH35.10	586.890	585.290	585.190			1.700	1.660		
	CH39.80	586.830	585.310	585.210			1.620			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.									
	(a) For Lift 0 to 1.5m	1			2.700	1.190	1.500	4.820	34.666	39.485
	(b) For Lift 1.5m to 3.0m	1			2.700	0.790	0.160	0.341	1.863	2.204



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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 200mm dia line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No 98 to

Book No. :- 064
Page No. :-

Uttam Nagar-02 Measure 250 SWG.

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			3.300	0.790	0.100	0.261		2.220	2.481
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.450		3.828	4.278
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			3.800			3.800		30.600	34.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							5.161			
	pipe area	1.00		0.785	3.300	0.270	0.270	0.19			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.26			
								0.45			
		Net Qty = A - B						4.71		32.70	37.41
	UM6 TO UM7										
	CH39.80	586.830	585.310	585.210			1.620	1.455			
	CH42.90	587.020	585.830	585.730			1.290				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.100	0.790	1.455	1.264		39.485	40.749
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.700	0.790	0.100	0.134		2.481	2.615
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.232		4.278	4.509
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			2.200			2.200		34.400	36.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							1.264			
	pipe area	1.00		0.785	1.700	0.270	0.270	0.10			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.13			
								0.23			
		Net Qty = A - B						1.03		37.41	38.44
	UM7 TO UM8										
	CH42.90	587.020	585.830	585.730			1.290	1.255			
	CH48.60	587.280	586.160	586.060			1.220				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.700	0.790	1.255	3.668		40.749	44.418
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			4.300	0.790	0.100	0.340		2.615	2.955



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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. :-

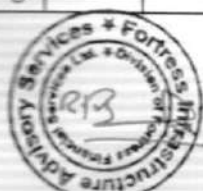
Page No. :-

063

6

Uttam Nagar-02 Measure 250 SWG.

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			2.150			2.150		42.500	44.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							0.888			
	pipe area	1.00		0.785	1.650	0.270	0.270	0.09			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.13			
								0.22			
								0.66		41.53	42.19
	Net Qty = A - B										
	UM10 TO UM11										
	CH53.65	587.530	586.430	586.330			1.200	0.923			
	CH58.00	587.200	586.655	586.555			0.645				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			2.575	0.790	0.923	1.877		45.305	47.182
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.175	0.790	0.100	0.251		3.132	3.383
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.433		5.320	5.752
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			3.675			3.675		44.650	48.325
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							1.877			
	pipe area	1.00		0.785	3.175	0.270	0.270	0.18			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.25			
								0.43			
	Net Qty = A - B							1.44		42.19	43.63
	UM2 TO UM2.1										
	CH0.00	585.750	584.790	584.690			1.060	0.905			
	CH2.00	585.850	585.200	585.100			0.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. (a) For Lift 0 to 1.5m	1			0.450	0.790	0.905	0.322		47.182	47.504
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.750	0.790	0.100	0.059		3.383	3.442
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.000		5.752	5.752



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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. :- 067

7

Uttam Nagar-02 Measure 250 SWG.

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			1.250			1.250		48.325	49.575
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.322			
	Deduction of 250mm dia SW pipe										
	pipe area	1.00									
	soling		0.785	0.750	0.270	0.270		0.04			
	PCC							0.00			
	Murum bedding							0.00			
								0.06			
								0.00			
								0.32			
	UM2.1 TO UM2.2									43.63	43.96
	CH2.00	585.850	585.200	585.100			0.750				
	CH4.00	585.800	585.100	585.000			0.800	0.775			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.300	0.790	0.775	0.184		47.504	47.687
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.900	0.790	0.100	0.071		3.442	3.514
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.000		5.752	5.752
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			1.000			1.000		49.575	50.575
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.184			
	Deduction of 250mm dia SW pipe										
	pipe area	1.00									
	soling		0.785	0.900	0.270	0.270		0.05			
	PCC							0.00			
	Murum bedding							0.00			
								0.07			
								0.00			
								0.18			
	UM3TO UM3.1									43.96	44.14
	CH0.00	586.110	585.235	585.135			0.975				
	CH3.00	586.300	585.600	585.500			0.800	0.887			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.450	0.790	0.887	1.017		47.687	48.704
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.750	0.790	0.100	0.138		3.514	3.652
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.238		5.752	5.991



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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.
 063

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			2.250				2.250	50.575	52.825
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe								1.017		
	pipe area	1.00		0.785	1.750	0.270	0.270		0.10		
	soling								0.00		
	PCC								0.00		
	Murum bedding								0.14		
									0.24		
									0.78	44.14	44.92
	Net Qty = A - B										
	UM3 TO UM3.2										
	CH0.00	586.110	585.235	585.135			0.975		0.943		
	CH3.40	586.110	585.300	585.200			0.910				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.850	0.790	0.943		1.377	48.704	50.081
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.150	0.790	0.100		0.170	3.652	3.822
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading								0.293	5.991	6.283
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			2.650				2.650	52.825	55.475
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe								1.377		
	pipe area	1.00		0.785	2.150	0.270	0.270		0.12		
	soling								0.00		
	PCC								0.00		
	Murum bedding								0.17		
									0.29		
	Net Qty = A - B								1.08	44.92	46.00
	UM4 TO UM4.1										
	CH0.00	586.570	585.510	585.410			1.160		1.005		
	CH3.40	586.650	585.900	585.800			0.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.850	0.790	1.005		1.469	50.081	51.550
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.150	0.790	0.100		0.170	3.822	3.991
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading								0.293	6.283	6.576



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Name of work:- Development of Underground Sewerage Collection system for Zone 1 to 11 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

Page No. :- 067

9

Uttam Nagar-02 Measure 250 SWG.

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			2.650			2.650		55.475	58.125
	Item No. 30 :- Refilling the excavated trenches ...							1.469			
	Total Excavation= Deduction of 250mm dia SW pipe										
	pipe area	1.00		0.785	2.150	0.270	0.270	0.12			
	soling							0.00			
	PCC							0.17			
	Murum bedding							0.29			
								1.18		46.00	47.18
	Net Qty = A - B										
	UM5 TO UM5.1										
	CH0.00	586.890	585.890	585.790			1.100	1.000			
	CH2.30	586.900	586.100	586.000			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.750	0.790	1.000	0.593		51.550	52.143
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.050	0.790	0.100	0.083		3.991	4.074
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.143		6.576	6.719
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			1.550			1.550		58.125	59.675
	Item No. 30 :- Refilling the excavated trenches ...							0.593			
	Total Excavation= Deduction of 250mm dia SW pipe										
	pipe area	1.00		0.785	1.050	0.270	0.270	0.06			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.08			
								0.14			
	Net Qty = A - B							0.45		47.18	47.63
	UM6 TO UM6.1										
	CH0.00	586.830	585.710	585.610			1.220	1.035			
	CH2.00	586.950	586.200	586.100			0.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.450	0.790	1.035	0.368		52.143	52.511
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.750	0.790	0.100	0.059		4.074	4.134
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.000		6.719	6.719



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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 150mm dia pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. - 073
Page No. -

Uttam Nagar-02 Measure 250 SWG.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			1.250			1.250		59.675	60.925
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							0.368			
	pipe area	1.00		0.785	0.750	0.270	0.270	0.04			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.06			
								0.00			
								0.37		47.63	48.00
	UM7 TO UM7.1										
	CH0.00	587.020	585.990	585.890			1.130	1.025			
	CH3.90	587.020	586.200	586.100			0.920				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.350	0.790	1.025	1.903		52.511	54.414
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.650	0.790	0.100	0.209		4.134	4.343
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.361		6.719	7.080
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			3.150			3.150		60.925	64.075
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation= Deduction of 250mm dia SW pipe							1.903			
	pipe area	1.00		0.785	2.650	0.270	0.270	0.15			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.21			
								0.36			
								1.54		48.00	49.54
	UM10 TO UM10.1										
	CH0.00	587.530	586.590	586.490			1.040	0.970			
	CH2.00	587.530	586.730	586.630			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.450	0.790	0.970	0.345		54.414	54.758
	(b) For Lift 1.5m to 3.0m	1			0.450	0.790	0.000	0.000		2.204	2.204
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.450	0.790	0.000	0.000		0.000	0.000



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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 Nakhshrawadi (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. > 072
Page No. >

Uttam Nagar-02 Meas. SW Pipe(II)

9th R A BILL MEASUREMENTS SW PIPE UTTAM NAGAR -02-

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	SW PIPE - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.790m										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4= 1.190m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0.4= 1.590m										
	UN 01 to UN 02	UTTAM NAGAR (Part-II)									
	CH0.00	581.980	580.810	580.710			1.270	1.193			
	CH6.20	582.380	581.365	581.265			1.115				
	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	1.093	3.625	54.758	58.383	
	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	0.100	0.332	0.000	0.332	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.800	0.790	0.100	0.379	4.402	4.781	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.654	7.183	7.836	
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			5.300			5.300	65.325	70.625	
	Item No. 30 :- Refilling the excavated trenches --										
	Total Excavation=							3.957			
	Deduction of 250mm dia pipe pipe area	1.00		0.785	4.800	0.270	0.270	0.27			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.38			
								0.65			
								3.30	49.78	53.08	
	UN 02 to UN 03										
	CH6.20	582.380	581.365	581.265			1.115	1.120			
	CH14.65	582.485	581.460	581.360			1.125				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.450	0.790	1.020	5.197	58.383	63.581	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



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

Book No. :-

Page No. :-

073

2

Uttam Nagar-02 Meas. SW Pipe(II)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			6.450	0.790	0.100	0.510		0.332	0.841
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.050	0.790	0.100	0.557		4.781	5.338
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.960		7.836	8.797
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			7.550			7.550		70.625	78.175
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.707			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	7.050	0.270	0.270	0.40			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.56			
								0.96			
								Net Qty = A - B		53.08	57.83
	UN 03 to UN 04										
	CH14.65	582.485	581.460	581.360			1.125	1.058			
	CH24.25	582.400	581.510	581.410			0.990				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.600	0.790	0.958	5.749		63.581	69.330
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.600	0.790	0.100	0.600		0.841	1.442
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			7.600	0.790	0.000	0.000		0.000	0.000
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.200	0.790	0.100	0.648		5.338	5.986
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.117		8.797	9.914
	Extra Item No. 9.2 (d):- Lowering & Laying of SWG pipe of 250mm Dia	1			8.700			8.700		78.175	86.875
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.349			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	8.200	0.270	0.270	0.47			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.65			
								1.12			



2

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

1

Uttam Nagar-02 Chamber Measurement

9th R A BILL MEASUREMENTS OF CHEMBERS UTTAM NAGAR-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m										
	Area for chamber up to 1.5m=2 X 2=4m										
	UM1	Part-I									
	CH0.00	584.600	583.600	583.350			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.250	3.925	0.000	3.925	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.534	0.000	1.534	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.925			
	Deduction										
	Brick work	1.00			0.785	1.16	1.16	1.000	1.06		
	soling								0.00		
	PCC	1.00			0.785	1.56	1.56	0.25	0.48		
	Murrum bedding								0.00		
	Total (B)							1.53			
		Net Qty = A - B							2.39	0.00	2.39
	UM1.1	0.9m dia SW Dia									
	CH5.30	585.040	584.040	583.750			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			2.000	1.700	1.330	4.522	3.925	8.447	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.183	1.534	3.717	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.522			
	Deduction										
	Brick work	1.00			1	1.40	1.10	1.060	1.66		
	soling								0.00		
	PCC	1.00			1	1.60	1.30	0.25	0.52		
	Murrum bedding								0.00		
	Total (B)							2.18			
		Net Qty = A - B							2.34	2.39	4.73
	UM2										
	CH12.50	585.750	584.390	584.140			1.610				
	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	8.447	13.157	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.110	0.345	0.000	0.345	



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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. - 076
Page No. -

Uttam Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						1.914		3.717	5.631	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						5.055				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.360	1.44			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.91			
				Net Qty = A - B				3.14	4.73	7.87	
	UM3										
	CH20.10	586.110	584.635	584.385			1.725				
	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	1.500	4.710	13.157	17.867	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.23	0.707	0.345	1.052	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.036	5.631	7.667	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.417			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.475	1.56			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							2.04			
				Net Qty = A - B				3.38	7.87	11.25	
	UM4										
	CH26.50	586.570	584.910	584.660			1.910				
	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	1.500	4.710	17.867	22.577	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.41	1.287	1.052	2.339	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.231	7.667	9.898	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.997			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.660	1.75			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							2.23			
				Net Qty = A - B				3.77	11.25	15.02	
	UM5										
	CH35.10	586.890	585.290	585.040			1.850				



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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			0.785	4.000	1.500	4.710		22.577	27.287
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.35	1.099		2.339	3.438
	Item No. : 11 Transportation of earth Transportation charges							2.168		9.898	12.066
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.809			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.600	1.69			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							2.17			
	Net Qty = A - B							3.64		15.02	18.66
	UM6 0.9MX3.6M Size MH										
	CH39.80	586.830	585.310	585.060			1.770				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	1.500	5.100		27.287	32.387
	(b) For Lift 1.5 to 3.0m	1			2.000	1.700	0.27	0.918		3.438	4.356
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.861		12.066	14.926
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.018			
	Deduction										
	Brick work	1.00		1	1.40	1.30	1.520	2.34			
	soling							0.00			
	PCC	1.00		1	1.60	1.30	0.25	0.52			
	Murrum bedding							0.00			
	Total (B)							2.86			
	Net Qty = A - B							3.16		18.66	21.82
	UM7										
	CH42.90	587.020	585.830	585.580			1.440				
	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	1.440	4.522		32.387	36.909
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.735		14.926	16.661
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.522			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.190	1.26			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			



J

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 CIPP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to CIDCO (Airport).

Book No. :-
Page No. :-

073

Uttam Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Total (B)						1.73				
							2.79	21.82	24.60		
	Net Qty = A - B										
	UM8										
	CH48.60	587.280	586.160	585.910			1.370				
	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	1.370	4.302	36.909	41.210	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.661	16.661	18.322	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						4.302				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.120	1.18			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)						1.66				
	Net Qty = A - B						2.64	24.60	27.25		
	UM10										
	CH53.65	587.530	586.430	586.180			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	1.350	4.239	41.210	45.449	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.640	18.322	19.961	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						4.239				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.100	1.16			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)						1.64				
	Net Qty = A - B						2.60	27.25	29.84		
	Excavation of Chamber - For 0.6m x 0.45m chamber up to 1.5 mt depth -0.6+0.5+0.3+0.3=1.7m Breadth for chamber up to 1.5m=0.5+0.5+0.3+0.3=1.55m										
	UM2.8										
	CH2.88	585.850	585.200	584.950			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.900	2.371	45.449	47.821	



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. 079

5

Uttam Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	meas Page	Ten anf	Tot I Quar city
		No			L	B	D				
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.053		1961	21.014
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.371			
	Deduction										
	Brick work	1.00		1	1.10	0.95	0.650	0.68			
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.05			
								Net Qty = A - B			
	UM2.2							1.32		29.84	31.16
	CH4.00	585.800	585.100	584.850			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.950	2.503		47.821	50.324
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.105		21.014	22.119
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.503			
	Deduction										
	Brick work	1.00		1	1.10	0.95	0.700	0.73			
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.11			
								Net Qty = A - B			
	UM3.1							1.40		31.16	32.56
	CH3.00	585.300	585.600	585.350			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.950	2.503		50.324	52.827
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.105		22.119	23.225
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.503			
	Deduction										
	Brick work	1.00		1	1.10	0.95	0.700	0.73			
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.11			
								Net Qty = A - B			
								1.40		32.56	33.96



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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.48 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main

Book No. :-

083

Page No. :-

Uttam Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	UM3.2										
	CH3.40	586.110	585.300	585.050			1.060				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	1.060	2.793	52.827	55.620	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.220	23.225	24.445	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.793			
	Deduction										
	Brick work	1.00			1	1.10	0.95	0.810	0.85		
	soling								0.00		
	PCC	1.00			1	1.30	1.15	0.25	0.37		
	Murrum bedding								0.00		
	Total (B)							1.22			
		Net Qty = A - B							1.57	33.96	35.53
	UM4.1										
	CH3.40	586.650	585.900	585.650			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			1.700	1.550	1.000	2.635	55.620	58.255	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.158	24.445	25.602	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.635			
	Deduction										
	Brick work	1.00			1	1.10	0.95	0.750	0.78		
	soling								0.00		
	PCC	1.00			1	1.30	1.15	0.25	0.37		
	Murrum bedding								0.00		
	Total (B)							1.16			
		Net Qty = A - B							1.48	35.53	37.01
	UM5.1										
	CH2.30	586.900	586.100	585.850			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	1.050	2.767	58.255	61.022	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.210	25.602	26.812	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.767			
	Deduction										
	Brick work	1.00			1	1.10	0.95	0.800	0.84		



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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. :- 081
Page No. :-

7

Uttam Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.21			
								Net Qty = A - B	1.56	37.01	38.57
	UM6.1										
	CH2.00	586.950	586.200	585.950			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	1.000	2.635	61.022	63.657	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.158	26.812	27.970	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.635			
	Deduction										
	Brick work	1.00		1	1.10	0.95	0.750	0.78			
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.16			
								Net Qty = A - B	1.48	38.57	40.04
	UM7.1										
	CH3.90	587.020	586.200	585.950			1.070				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	1.070	2.819	63.657	66.477	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.231	27.970	29.200	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.819			
	Deduction										
	Brick work -	1.00		1	1.10	0.95	0.820	0.86			
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.23			
								Net Qty = A - B	1.59	40.04	41.63
	UM10.1										
	CH2.00	587.530	586.730	586.480			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	1.050	2.767	66.477	69.243	
	(b) For Lift 1.5 to 3.0m	1			1.700	1.550	0.00	0.000	4.356	4.356	



F

Uttam Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.210		29.200	30.410
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.767			
	Deduction										
	Brick work	1.00		1	1.10	0.95	0.800	0.84			
	soiling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.21			
				Net Qty = A - B				1.56		41.63	43.19
	Excavation of Chamber - For 0.45m x0.45m chamber up to 1.5 mt depth - 0.45+0.5+0.3+0.3=1.55m										
	Bredth for chamber up to 1.5m=0.45+0.5+0.3+0.3=1.55m										
	UM9										
	CH50.60	587.200	586.360	586.110			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			1.550	1.550	1.090	2.619		69.243	71.862
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.089		30.410	31.499
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.619			
	Deduction										
	Brick work	1.00		1	0.95	0.95	0.840	0.76			
	soiling							0.00			
	PCC	1.00		1	1.15	1.15	0.25	0.33			
	Murum bedding							0.00			
	Total (B)							1.09			
				Net Qty = A - B				1.53		43.19	44.72
	UM11										
	CH58.00	587.200	586.655	586.405			0.795				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.550	0.795	1.910		71.862	73.772
	(b) For Lift 1.5 to 3.0m	1			1.550	1.550	0.00	0.000		4.356	4.356
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.550	0.000	0.000		0.000	0.000
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.550	0.000	0.000		0.000	0.000



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