

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Sales All Constructing, Erecting, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewerage 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

Book No. :-

Page No. :- 001

Chikalhana and Misarwadi-M Branch 400mm, 300mm Dia

9th R A BILL MEASUREMENTS
Branch Sewer at "Chikalhana & Misarwadi "

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	400mm dia At Misarwadi										
	Width of Trench - For										
	Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	MH100.8										
23/02/2016	CH318.70	589.742	586.542	586.342			3.400				
	CH367.50	589.587	586.687	586.487			3.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			45.60	2.000	1.500	136.800	0.000	136.800	
	(b) For Lift 1.5m to 3.0m	1			45.60	1.600	1.500	109.440	0.000	109.440	
	(c) For Lift 3.0m to 4.5m	1			45.60	1.200	0.250	13.680	0.000	13.680	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			45.60	1.200	0.200	10.944	0.000	10.944	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			47.50			47.500	0.000	47.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							259.920			
	Deduction										
	pipe area	1		0.785	45.60	0.550	0.550	10.83			
	soling							0.00			
	PCC							0.00			
	Murum bedding							10.94			
	Total = B							21.77			
	Net Qty = A - B							238.15	0.000	238.148	
	MH100.9										
23/02/2016	CH367.50	589.587	586.887	586.687			2.900				
	CH393.80	590.217	586.967	586.767			3.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.10	2.000	1.500	69.300	136.800	206.100	
	(b) For Lift 1.5m to 3.0m	1			23.10	1.600	1.500	55.440	109.440	164.880	
	(c) For Lift 3.0m to 4.5m	1			23.10	1.200	0.175	4.851	13.680	18.531	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.10	1.200	0.200	5.544	10.944	16.488	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000	47.500	72.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							129.591			
	Deduction										
	pipe area	1		0.785	23.10	0.550	0.550	5.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.54			
	Total = B							11.03			
	Net Qty = A - B							118.56	238.148	356.709	
	MH100.10										
23/02/2016	CH393.80	590.217	586.967	586.767			3.450				



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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 (Kanchurwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main

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Chikalthana and Mizarwadi-W Branch 400mm, 300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	BL	EXL	L	B	D		Page	Quantity	
	CH442.60	590.519	587.119	586.919			3.600				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			45.60	2.000	1.500	136.800	206.100	342.900 ✓	
	(b) For Lift 1.5m to 3.0m	1			45.60	1.600	1.500	109.440	164.880	274.320 ✓	
	(c) For Lift 3.0m to 4.5m	1			45.60	1.200	0.525	28.728	18.531	47.259 ✓	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			45.60	1.200	0.200	10.944	16.488	27.432 ✓	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			47.50			47.500	72.500	120.000 ✓	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							274.968			
	Deduction										
	pipe area	1		0.785	45.60	0.550	0.550	10.83			
	soling							0.00			
	PCC							0.00			
	Murum bedding							10.94			
	Total = B							21.77			
								Net Qty = A - B	253.20	356.709 609.905 ✓	
	MH100.11										
30/01/2016	CH442.60	590.519	587.519	587.319			3.200				
	CH466.40	590.694	587.594	587.394			3.300	3.250			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	2.000	1.500	61.800	342.900	404.700 ✓	
	(b) For Lift 1.5m to 3.0m	1			20.60	1.600	1.500	49.440	274.320	323.760 ✓	
	(c) For Lift 3.0m to 4.5m	1			20.60	1.200	0.250	6.180	47.259	53.439 ✓	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.60	1.200	0.200	4.944	27.432	32.376 ✓	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.50			22.500	120.000	142.500 ✓	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							117.420			
	Deduction										
	pipe area	1		0.785	20.60	0.550	0.550	4.89			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.94			
	Total = B							9.84			
								Net Qty = A - B	107.58	609.905 717.489 ✓	
	MH100.12										
02/02/2016	CH466.40	590.694	587.994	587.794			2.900				
	CH495.20	591.084	588.084	587.884			3.200	3.050			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.60	1.600	1.500	61.440	404.700	466.140 ✓	
	(b) For Lift 1.5m to 3.0m	1			25.60	1.200	1.500	46.080	323.760	369.840 ✓	
	(c) For Lift 3.0m to 4.5m	1			25.60	1.200	0.050	1.536	53.439	54.975 ✓	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.60	1.200	0.200	6.144	32.376	38.520 ✓	



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

Book No. > 003
Page No. >

Chikalthana and Misarwadi-M Branch 400mm, 300mm Dia

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.50			27.500	142.500	170.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A						109.056				
	Deduction										
	pipe area	1		0.785	25.60	0.550	0.550	6.08			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.14			
	Total = B							12.22			
				Net Qty = A - B				96.83	717.489	814.322	
	MH100.13										
05/02/2016	CH495.20	591.084	588.284	588.084			3.000	3.050			
	CH516.50	591.249	588.349	588.149			3.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.10	1.600	1.500	43.440	466.140	509.580	
	(b) For Lift 1.5m to 3.0m	1			18.10	1.200	1.500	32.580	369.840	402.420	
	(c) For Lift 3.0m to 4.5m	1			18.10	1.200	0.050	1.086	54.975	56.061	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.10	1.200	0.200	4.344	38.520	42.864	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000	170.000	190.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							77.106			
	Deduction										
	pipe area	1		0.785	18.10	0.550	0.550	4.30			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.34			
	Total = B							8.64			
				Net Qty = A - B				68.46	814.322	882.786	
	MH100.14										
10/02/2016	CH516.50	591.249	588.349	588.149			3.100	3.275			
	CH550.30	591.704	588.454	588.254			3.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	2.000	1.500	91.800	509.580	601.380	
	(b) For Lift 1.5m to 3.0m	1			30.60	1.600	1.500	73.440	402.420	475.820	
	(c) For Lift 3.0m to 4.5m	1			30.60	1.200	0.275	10.098	56.061	66.179	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.60	1.200	0.200	7.344	42.864	50.208	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500	170.000	222.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							175.338			
	Deduction										
	pipe area	1		0.785	30.60	0.550	0.550	7.27			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.34			
	Total = B							14.61			
				Net Qty = A - B				160.73	882.786	1043.514	



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

Book No. :-

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Chikalthura and Wisarwadi-W Branch-400mm, 300mm Dia

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EXL							
	MH100.15										
13/02/2016	CH589.10	592.704	588.454	588.254							
	CH635.40	592.819	588.589	588.389			3.450				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.60	2.000	1.500	106.800			
	(b) For Lift 1.5m to 3.0m	1			35.60	1.600	1.500	85.440	601.380	708.180	
	(c) For Lift 3.0m to 4.5m	1			35.60	1.200	0.540	23.069	475.860	561.300	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.60	1.200	0.200	8.544	66.159	89.228	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.50			37.500	50.208	58.752	
	Item No 30 :- Refilling the excavated trenches ...								222.500	260.000	
	Total Excavation= A							215.309			
	Deduction										
	pipe area	1			0.785	35.60	0.550	0.550	8.45		
	soiling							0.00			
	PCC							0.00			
	Murum bedding							8.54			
	Total = B							17.00			
					Net Qty = A - B			198.31		1043.514	1241.825
	MH100.16										
13/02/2016	CH589.10	592.019	588.589	588.389							
	CH635.40	592.510	588.719	588.519			3.630				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			43.10	2.000	1.500	129.300			
	(b) For Lift 1.5m to 3.0m	1			43.10	1.600	1.500	103.440	708.180	837.480	
	(c) For Lift 3.0m to 4.5m	1			43.10	1.200	0.810	41.893	561.300	664.740	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			43.10	1.200	0.200	10.344	89.228	131.121	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			45.00			45.000	58.752	69.096	
	Item No 30 :- Refilling the excavated trenches ...								260.000	305.000	
	Total Excavation= A							274.633			
	Deduction										
	pipe area	1			0.785	43.10	0.550	0.550	10.23		
	soiling							0.00			
	PCC							0.00			
	Murum bedding							10.34			
	Total = B							20.58			
					Net Qty = A - B			254.05		1241.825	1495.880
	MH100.17										
16/02/2016	CH635.40	592.510	588.819	588.619							
	CH661.70	592.499	588.899	588.699			3.891				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.10	2.000	1.500	69.300			
	(b) For Lift 1.5m to 3.0m	1			23.10	1.600	1.500	55.440	837.480	906.780	
	(c) For Lift 3.0m to 4.5m	1			23.10	1.200	0.846	23.451	664.740	720.180	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.10	1.200	0.200	5.544	131.121	154.572	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia								69.096	74.640	



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

Chikalhana and Misarwadi-M Branch 400mm, 300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000		305.000	331.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							148.191			
	Deduction										
	pipe area	1		0.785	23.10	0.550	0.550	5.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.54			
	Total = B							11.03			
				Net Qty = A - B				137.16		1495.880	1633.04
	300mm dia										
	Width of Trench - For										
	Bottom Lift 0.00-1.50m- 0.3+0.08+0.08+0.5=0.96m										
	From Bottom Lift 1.50m-3.00m- 0.3+0.08+0.08+0.5+0.4=1.36m										
	From Bottom Lift 3.00m-4.50m- 0.3+0.08+0.08+0.5+0.4+0.4=1.76m										
	MH100.18										
18/02/2016	CH661.70	592.499	588.999	588.799			3.700	3.851			
	CH685.50	592.890	589.089	588.889			4.001				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	1.760	1.500	54.384		206.100	260.484
	(b) For Lift 1.5m to 3.0m	1			20.60	1.360	1.500	42.024		164.880	206.904
	(c) For Lift 3.0m to 4.5m	1			20.60	0.960	0.851	16.829		18.531	35.367
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			20.60	0.960	0.200	3.955		16.488	20.443
	Extra item no.-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			22.50			22.500		0.000	22.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							113.237			
	Deduction										
	pipe area	1		0.785	20.60	0.380	0.380	2.34			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.96			
	Total = B							6.29			
				Net Qty = A - B				106.95		356.709	463.656
	MH100.19										
20/02/2016	CH685.50	592.890	589.189	588.989			3.901	3.901			
	CH711.80	592.989	589.289	589.089			3.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.10	1.760	1.500	60.994		292.494	353.488
	(b) For Lift 1.5m to 3.0m	1			23.10	1.360	1.500	47.124		206.904	254.028
	(c) For Lift 3.0m to 4.5m	1			23.10	0.960	0.901	19.981		35.360	55.347
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			23.10	0.960	0.200	4.435		20.443	24.878
	Extra item no.-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			25.00			25.000		22.500	47.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							128.089			



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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 Nakhtrawadi (Kanchurwadi), 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 Nakhtrawadi (Kanchurwadi) STP and Ward No. 98 to

Book No. :-

Page No. :-

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Chikalthana and Misarwadi-M Branch 400mm, 300mm Dia

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B		D	Page	
	Deduction									
	pipe area	1		0.785	23.10	0.380	0.380	2.62		
	soling							0.00		
	PCC							0.00		
	Murum bedding							4.44		
	Total = B							7.05		
				Net Qty = A - B				121.03	463.656	584.691
	MH100.20									
23/02/2016	CH711.80	592.989	589.389	589.189			3.800	3.450		
	CH765.60	592.499	589.599	589.399			3.100			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			50.60	1.760	1.500	133.584	321.468	455.052
	(b) For Lift 1.5m to 3.0m	1			50.60	1.360	1.500	103.224	254.028	357.252
	(c) For Lift 3.0m to 4.5m	1			50.60	0.960	0.450	21.859	55.341	77.200
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			50.60	0.960	0.200	9.715	24.878	34.594
	Extra item no.-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			52.50			52.500	47.500	100.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation= A							258.667		
	Deduction									
	pipe area	1		0.785	50.60	0.380	0.380	5.74		
	soling							0.00		
	PCC							0.00		
	Murum bedding							9.72		
	Total = B							15.45		
				Net Qty = A - B				243.22	584.691	827.908
	MH100.21									
25/02/2016	CH765.60	592.499	589.699	589.499			3.000	3.050		
	CH804.40	592.749	589.849	589.649			3.100			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			35.60	1.360	1.500	72.624	455.052	527.676
	(b) For Lift 1.5m to 3.0m	1			35.60	0.960	1.500	51.264	357.252	408.516
	(c) For Lift 3.0m to 4.5m	1			35.60	0.960	0.050	1.709	77.200	78.909
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			35.60	0.960	0.200	6.835	34.594	41.429
	Extra item no.-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			37.50			37.500	100.000	137.500
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation= A							125.597		
	Deduction									
	pipe area	1		0.785	35.60	0.380	0.380	4.04		
	soling							0.00		
	PCC							0.00		
	Murum bedding							6.84		
	Total = B							10.87		
				Net Qty = A - B				114.73	827.908	942.634
	MH100.22									
27/02/2016	CH804.40	592.749	589.949	589.749			3.000	3.100		
	CH843.20	593.099	590.099	589.899			3.200			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			35.60	1.360	1.500	72.624	527.676	600.300
	(b) For Lift 1.5m to 3.0m	1			35.60	0.960	1.500	51.264	408.516	459.780
	(c) For Lift 3.0m to 4.5m	1			35.60	0.960	0.100	3.418	78.909	82.327



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Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Safim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at 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 Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. _____
Page No. _____

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

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

Chikalthana and Misarwadi-M Branch 400mm, 300mm Dia

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.60	0.960	0.200	6.835		41.429	48.264
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			37.50			37.500		137.500	175.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							127.306			
	Deduction										
	pipe area	1		0.785	35.60	0.380	0.380	4.04			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.84			
	Total = B							10.87			
					Net Qty = A - B			116.43		942.634	1059.069
	MH100.23										
29/02/2016	CH843.20	593.099	590.105	589.905			3.194	3.130			
	CH882.00	593.120	590.255	590.055			3.065				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.60	1.360	1.500	72.624		600.300	672.924
	(b) For Lift 1.5m to 3.0m	1			35.60	0.960	1.500	51.264		459.780	511.044
	(c) For Lift 3.0m to 4.5m	1			35.60	0.960	0.130	4.443		82.327	86.759
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.60	0.960	0.200	6.835		48.264	55.099
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			37.50			37.500		175.000	212.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							128.331			
	Deduction										
	pipe area	1		0.785	35.60	0.380	0.380	4.04			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.84			
	Total = B							10.87			
					Net Qty = A - B			117.46		1059.069	1176.529



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

Book No. -
Page No. -

Chikalthana and Misarwadi-M Branch 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						17.932		26.540	44.473
02/02/2016	MH100.12										
	CH466.40	590.694	587.594	587.344							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058			
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	36.173	48.230	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.350	2.813	36.173	48.230	
	Item No. 30 :- Refilling the excavated trenches ...								10.450	13.263	
	Total Excavation=							26.929			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.000	8.161			
		1		0.785	1.765	1.765	1.100	2.690			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								12.158			
		Net Qty = A - B						14.771		44.473	59.243
05/02/2016	MH100.13										
	CH495.20	591.084	588.084	587.834							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058			
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	48.230	60.288	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.250	2.010	48.230	60.288	
	Item No. 30 :- Refilling the excavated trenches ...								13.263	15.273	
	Total Excavation=							26.125			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.200	8.978			
		1		0.785	1.840	1.840	0.800	2.126			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								12.410			
		Net Qty = A - B						13.715		59.243	72.958
08/02/2016	MH100.14										
	CH516.50	591.249	588.349	588.099							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058			
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	60.288	72.346	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.150	1.206	60.288	72.346	
	Item No. 30 :- Refilling the excavated trenches ...								15.273	86.479	
	Total Excavation=							25.321			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.500	6.121			
		1		0.785	1.690	1.690	1.400	3.139			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								18.566			
		Net Qty = A - B						14.755		72.958	87.713
09/02/2016	MH100.15										
	CH550.30	591.704	588.454	588.204							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058			
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	72.346	84.403	



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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							
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.500	4.019		16.479	20.498
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.134			
	Deduction										
	Brick work	1			0.785	2.280	2.280	1.800	7.345		
		1			0.785	1.678	1.678	1.450	3.203		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								11.855			
								Net Qty = A - B		87.713	103.992
13/02/2016	MH100.16										
	CH589.10	592.019	588.589	588.339			3.680				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	84.403	96.461	96.461
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	84.403	96.461	96.461
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.680	5.466	20.498	25.964	25.964
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							29.581			
	Deduction										
	Brick work	1			0.785	2.280	2.280	2.200	8.978		
		1			0.785	1.733	1.733	1.230	2.898		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								13.182			
								Net Qty = A - B		103.992	120.392
16/02/2016	MH100.17										
	CH635.40	592.510	588.719	588.469			4.041				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	96.461	108.518	108.518
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	96.461	108.518	108.518
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.041	8.368	25.964	34.332	34.332
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							32.483			
	Deduction										
	Brick work	1			0.785	2.280	2.280	2.500	10.202		
		1			0.785	1.717	1.717	1.291	2.989		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								14.497			
								Net Qty = A - B		120.392	138.378
18/02/2016	MH100.18										
	CH661.70	592.499	588.899	588.649			3.850				
	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	10.240	1.500	12.058	108.518	120.576	120.576
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	108.518	120.576	120.576
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.850	6.833	34.332	41.165	41.165
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.948			
	Deduction										
	Brick work	1			0.785	2.280	2.280	2.600	10.610		
		1			0.785	1.790	1.790	1.000	2.515		
	PCC	1			0.785	2.580	2.580	0.250	1.306		



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Chikalthana and Misarwadi-M Branch 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Item Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								14.431			
								16.516			
20/02/2016	MH100.19								138.378	154.874	
	CH685.50	592.890	589.089	588.839			4.051				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	120.576	132.634	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	120.576	132.634	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.051	8.448	41.165	49.211	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							32.564			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.000	8.161			
		1		0.785	1.590	1.590	1.801	3.573			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								13.041			
								19.523	154.894	174.417	
23/02/2016	MH100.20										
	CH711.80	592.989	589.289	589.039			3.950				
	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	10.240	1.500	12.058	132.634	144.691	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	132.634	144.691	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.950	7.636	49.613	57.249	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							31.752			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.800	7.345			
		1		0.785	1.565	1.565	1.900	3.653			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								12.305			
								19.447	174.417	193.864	
25/02/2016	MH100.21										
	CH765.60	592.499	589.599	589.349			3.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.500	12.058	144.691	156.749	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	144.691	156.749	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.150	1.206	57.249	58.455	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							25.321			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.300	5.385			
		1		0.785	1.640	1.640	1.600	3.376			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								9.967			
								15.352	193.864	209.216	
27/02/2016	MH100.22										
	CH804.40	592.749	589.849	589.599			3.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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Name of work:- Development of Underground Sewerage Collection system in Zone 1 and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakalwadhi (Kanchurwadhi), Banerwadhi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erecting, Testing and Commissioning of Sewage pumping stations at Banerwadhi, Siddharth Garden, Padegaon, Golwadhi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising man

GRP/D
STP for

Chikalthana and Misarwadhi-M Branch UCR Work

Name
Autho

9th R A BILL MEASUREMENTS
Branch Sewer at "Chikalthana & Misarwadhi"

Sr.No.	Description	Unit	No.	Length	Width	Height	Quantity	
A	Item No. 4 :-Excavation for foundation/pipe trenches in soft rock and old cement and lime masonry foundation asphalt road manually or by using mechanical means including & removing the excavated materials, up to a distance of 50.0 m beyond the area, and lifts as below. Stacking and spreading as directed,							
	1 Breaking of bridge culvert between Manhole MH100.1 & MH100.2 Near Masjid							
	UCR Wall Breaking including coping and PCC	Cum	1	64.00	0.75	2.10	100.800	
		Cum	1	5.00	0.50	2.10	5.250	
		Cum	1	5.00	0.60	2.10	6.300	
		Pipe Culvert	Cum	1	3.90	5.00	2.10	40.950
		PCC in Nala	Cum	1	64.00	4.05	0.10	25.920
	2 Breaking of bridge culvert between Manhole MH100.4 & MH100.5	Cum	1	4.30	2.20	1.00	9.460	
	3 Breaking of bridge culvert between Manhole MH100.7 & MH100.8	Cum	1	7.80	5.00	0.95	36.990	
	4 Breaking of bridge culvert between Manhole MH100.8 & MH100.9	Cum	1	6.00	7.55	1.00	61.540	
						346.270		
B	Item No 15:- Supply of RCC Pipes							
	1 Supply of RCC Pipes of 1200mm dia NP3 pipe for bridge culvert between Manhole MH100.1 & MH100.2 Near Masjid	Rmt	4	2.50			10.000	
	2 Supply of RCC Pipes of 600mm dia NP3 pipe for bridge culvert between Manhole MH100.7 & MH100.8	Rmt	4	2.50			10.000	
	3 Supply of RCC Pipes of 1000mm dia NP3 pipe for bridge culvert between Manhole MH100.8 & MH100.9	Rmt	6	2.50			15.000	
C	Item No 17:- Laying of RCC Pipes Item							
	1 Laying of RCC Pipes of 1200mm dia NP3 pipe for bridge culvert between Manhole MH100.1 & MH100.2 Near Masjid	Rmt	4	2.50			10.000	
	2 Laying of RCC Pipes of 500mm dia NP3 pipe for bridge culvert between Manhole MH100.4 & MH100.5	Rmt	2	2.50			5.000	
	3 Laying of RCC Pipes of 600mm dia NP3 pipe for bridge culvert between Manhole MH100.7 & MH100.8	Rmt	4	2.50			10.000	
	3 Laying of RCC Pipes of 1000mm dia NP3 pipe for bridge culvert between Manhole MH100.8 & MH100.9	Rmt	6	2.50			15.000	
D	Extra Item no.-5. a) Providing Rubble soling In 15 to 20 cm thk layer							
	1 Bridge culvert between Manhole MH100.1 & MH100.2 Near Masjid	Cum	1	5.00	5.00	0.20	5.000	
	2 Bridge culvert between Manhole MH100.4 & MH100.5	Cum	1	4.30	2.20	0.15	1.419	
	3 Bridge culvert between Manhole MH100.7 & MH100.8	Cum	1	4.00	9.30	0.15	5.580	
						11.999		
F	Extra Item no.-5. b) Providing & casting M 15 Grade Concrete							
	1 Bridge culvert between Manhole MH100.1 & MH100.2 Near Masjid	PCC	Cum	1	64.00	4.95	0.10	31.680
		PCC	Cum	1	5.00	0.60	0.10	0.300
		PCC	Cum	1	5.00	0.50	0.10	0.250
		Coping	Cum	1	64.00	0.60	0.10	3.840
		Coping	Cum	1	5.00	0.60	0.10	0.300
		Coping	Cum	1	5.00	0.50	0.10	0.250
	2 Bridge culvert between Manhole MH100.4 & MH100.5	Cum	1	4.30	2.20	0.10	0.946	
	3 Bridge culvert between Manhole MH100.7 & MH100.8	Cum	1	4.00	9.30	0.15	5.580	
		Coping	Cum	2	7.80	0.50	0.10	0.780
	4 Bridge culvert between Manhole MH100.8 & MH100.9	Cum	1	6.50	0.60	0.10	0.390	
		Cum	1	8.60	0.60	0.10	0.516	
		Coping	Cum	1	6.50	0.60	0.10	0.390
		Coping	Cum	1	8.60	0.60	0.10	0.516
							46.720	
E	Extra Item no.-5. c) Construction of UCR Masonry work in 1:6 CM							
	1 Bridge culvert between Manhole MH100.1 & MH100.2 Near Masjid							
		Cum	1	10.00	0.75	1.90	19.500	
		Cum	1	5.00	0.60	1.90	5.700	
		Cum	1	5.00	0.50	1.90	4.750	
	2 Bridge culvert between Manhole MH100.4 & MH100.5	Cum	2	4.30	0.50	1.70	3.235	
	3 Bridge culvert between Manhole MH100.7 & MH100.8	Cum	2	7.80	0.50	1.85	14.400	
	4 Bridge culvert between Manhole MH100.8 & MH100.9	Cum	1	6.50	0.60	1.70	6.620	
	Cum	1	6.50	0.50	1.80	9.225		
						58.275		
F	Extra Item no.-5. c) Construction of UCR Masonry work in 1:6 CM for R.R							
	1 Bridge culvert between Manhole MH100.1 & MH100.2 Near Masjid	Cum	1	54.00	0.75	1.90	76.950	



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

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Page No. :-

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

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

Date of Measurement		Chikalthana and Misarwadi-M Branch Quantity Note Abstract															Total up to Date						
I		9th RA BILL MEASUREMENTS															10						
Branch Of Bower M - Chikalthana and Misarwadi																							
SR NO	Description	MBIPG	ITEM 1			ITEM 4	ITEM 7	ITEM 11	ITEM 17					ITEM 20	EIRL 5			EIRL 9.3	EIRL 9.4				
			0-1.5	1.5-3.0	3.0-4.5				400mm	500mm	600mm	1000mm	1200mm		2-5 m	Rebate	a			b	c	e (I)	RR
1	For Pipe		672.924	511.044	86.769	346.379	66.099	407.287	330.000	5.000	10.000	15.000	10.000	10.000	15.000	15.000	11.999	46.738	68.273	76.950	212.500	300mm	212.500
2	For Manhole		180.864	180.864	61.671										(25.800)	236.761	11.999	46.738	68.273	76.950	212.500		212.500
Total			853.788	691.908	148.440	346.379	66.099	407.287	330.000	5.000	10.000	15.000	10.000	15.000	15.000	1412.200	11.999	46.738	68.273	76.950	212.500		212.500

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Ex. Engineer

CLIENT
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Dy. Engineer

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Jr. Engineer



Name of work:- Development of Underground Sewerage Collection system for Zone 10 and Zone Safim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Bancwadi, Southern Garden, Zaha, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commissioning of Sewage pumping stations at Bancwadi, Siddharth Garden, Padegaon, Golwadi, Zaha, 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

1 of 6

Sewer M Branch at Chikhalthana 400, 300mm Dia

9th R A BILL MEASUREMENTS

Sewer at Chikhalthana

Date	Particulars of work	DETAILS						Content of area	Last measurement	
		No			L	B	D		Page	Quantity
		GL	IL	EX.L						
	400mm dia near Ghati Hospital									
	Width of Trench - For									
	Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m									
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m									
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m									
	CGH 1									
27/01/2016	CH0.00	575.850	574.650	574.450			1.400	1.550		
	CH41.10	576.210	574.710	574.510			1.700			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			38.44	1.200	1.100	50.741	0.000	
	(b) For Lift 1.5m to 3.0m	1			38.44	1.200	0.050	2.306	0.000	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			38.44	1.200	0.300	13.838	0.000	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			38.44	1.200	0.100	4.613	0.000	
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			38.44	1.200	0.200	9.226	0.000	
	Item No. : 11 Transportation of earth Transportation charges including							18.354	0.000	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.00			40.000	0.000	
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation= A							71.498		
	Deduction									
	pipe area	1		0.785	38.44	0.550	0.550	9.13		
	soling							0.00		
	PCC							0.00		
	Murrum bedding							9.23		
	Total = B							18.35		
								Net Qty = A - B	53.14	
									0.000	
	CGH 2									
28/01/2016	CH41.10	576.210	574.710	574.510			1.700	1.750		
	CH67.20	576.350	574.750	574.550			1.800			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			23.44	1.600	1.100	41.254	58.740	
	(b) For Lift 1.5m to 3.0m	1			23.44	1.200	0.250	7.632	2.306	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			23.44	1.600	0.300	11.250	13.838	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			23.44	1.600	0.100	3.750	4.613	



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Name of work:- Development of Underground Sewerage Collection system for Zone 1a, 1b and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kancharwadi), Banewadi, Siddharth Garden, Zaha, Padegam. CIDCO (Airport). Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegam, Golwadi, Zaha. Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP-DI pipe line from Golwadi SPS to Nakshtrawadi (Kancharwadi) STP and Ward No.98 to

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.94	1.360	1.100	31.326		127.061	
	(b) For Lift 1.5m to 3.0m	1			20.94	0.960	0.350	7.036		16.089	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.94	1.360	0.300	8.544		34.453	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.94	1.360	0.100	2.848		11.551	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.94	0.960	0.200	4.020		14.952	
	Item No. : 11 Transportation of earth Transportation charges including							6.394		36.783	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			22.50			22.500		25.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							49.753			
	Deduction										
	pipe area	1		0.785	20.94	0.380	0.380	2.37			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.02			
	Total = B							6.39			
					Net Qty = A - B			43.36		152.652	
	CGH 5										
03/02/2016	CH116.90	576.530	574.830	574.630			1.900	1.950			
	CH150.50	576.675	574.875	574.675			2.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.94	1.360	1.100	46.286		158.388	
	(b) For Lift 1.5m to 3.0m	1			30.94	0.960	0.450	13.366		23.125	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.94	1.360	0.300	12.624		43.197	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.94	1.360	0.100	4.208		14.299	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.94	0.960	0.200	5.940		20.972	
	Item No. : 11 Transportation of earth Transportation charges including							9.448		40.897	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			32.50			32.500		47.588	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							76.494			
	Deduction										
	pipe area	1		0.785	30.94	0.380	0.380	3.51			
	soling							0.00			
	PCC							0.00			



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

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Sewer M Branch at Chikalhana 400, 300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murram bedding							5.94			
	Total = B							9.45			
		Net Qty = A - B						67.04		196.011	263.047
	CGR 6										
06/02/2016	CR158.50	576.675	574.875	574.675			2.000	1.900			
	CR174.10	576.515	574.915	574.715			1.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.94	1.360	1.100	31.326		204.674	236.000
	(b) For Lift 1.5m to 3.0m	1			20.94	0.960	0.400	8.041		36.491	44.532
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.94	1.360	0.300	8.544		55.820	64.364
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.94	1.360	0.100	2.848		18.607	21.455
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			20.94	0.960	0.200	4.020		29.313	33.333
	Item No. : 11 Transportation of earth Transportation charges including							6.394		52.545	58.939
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			22.50			22.500		80.000	102.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							50.759			
	Deduction										
	pipe area	1		0.785	20.94	0.380	0.380	2.37			
	soling							0.00			
	PCC							0.00			
	Murram bedding							4.02			
	Total = B							6.39			
		Net Qty = A - B						44.36		263.047	307.417
	CGR 7										
06/02/2016	CR174.10	576.515	574.915	574.715			1.800	1.550			
	CR200.20	576.055	574.955	574.755			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.44	0.960	1.100	24.753		236.000	260.753
	(b) For Lift 1.5m to 3.0m	1			23.44	0.960	0.050	1.125		44.532	45.657
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			23.44	0.960	0.300	6.751		64.364	71.114
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			23.44	0.960	0.100	2.250		21.455	23.705
	Item No. 7 :- Filling in plinth and floors/trenches etc complete.(bedding)	1			23.44	0.960	0.200	4.500		33.333	37.834
	Item No. : 11 Transportation of earth Transportation charges including							7.157		58.939	66.096
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			25.00			25.000		102.500	127.500



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

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Sewer M Branch at Chikalthana 400, 300mm Dia

Date	Particulars of work	DETAILS						Content of area	Last measurement	
		No			L	B	D		Page	Quantity
		GL	IL	EX.L						
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation= A						34.879			
	Deduction									
	pipe area	1		0.785	23.44	0.380	0.380	2.66		
	soling							0.00		
	PCC							0.00		
	Murum bedding							4.50		
	Total = B							7.16		
				Net Qty = A - B				27.72	307.432	
	CGH 8									
08/02/2016	CH200.20	576.055	574.955	574.755			1.300	1.150		
	CH243.80	575.825	575.025	574.825			1.000			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			40.94	0.960	1.150	45.198	37.724	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.94	0.960	0.200	7.860	37.724	
	Item No. : 11 Transportation of earth Transportation charges including							12.501	66.924	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			42.50			42.500	127.500	
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation= A							45.198		
	Deduction									
	pipe area	1		0.785	40.94	0.380	0.380	4.64		
	soling							0.00		
	PCC							0.00		
	Murum bedding							7.86		
	Total = B							12.50		
				Net Qty = A - B				32.70	335.133	
	CGH 9									
12/02/2016	CH243.80	575.825	575.025	574.825			1.000	0.950		
	CH262.40	575.755	575.055	574.855			0.900			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			15.94	0.960	0.950	14.537	305.950	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.94	0.960	0.200	3.060	45.694	
	Item No. : 11 Transportation of earth Transportation charges including							4.867	78.587	
	Extra item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			17.50			17.500	178.887	
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation= A							34.527		
	Deduction									
	pipe area	1		0.785	15.94	0.380	0.380	2.87		
	soling							0.00		
	PCC							0.00		
	Murum bedding							7.66		
	Total = B							10.53		
				Net Qty = A - B				24.00	367.829	
	CGH 10									
15/02/2016	CH262.40	575.755	575.055	574.855			0.900		377.4	



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

1 of 5

Sewer M Branch at Chikalthana 1.2m MH Excavation

9th R A BILL MEASUREMENTS
Sewer at Chikalthana

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Qty	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20m dia Manhole (upto a depth of 0.0m to 2.0m)- 1.20+0.23+0.23+0.5+0.5=2.66m Breadth for Manhole=2.66*2.66=7.075m 400mm/300mm Dia-Chikalthana near Ghati Hospital CGH 1										
27/01/2016	CH 0.00	575.850	574.650	574.400			1.450				
	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	7.075	1.050	5.832	0.000		
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666	0.000		
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555	0.000		
	Item No. : 11 Transportation of earth Transportation charges							2.168	0.000		
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.053			
	Deduction										
	Brick work	1		0.785	1.225	1.225	1.200	1.414	0.000		
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Soling	1		0.785	1.960	1.960	0.000	0.000			
								2.168			
								5.886	0.000	5.886	
	CGH 2										
28/01/2016	CH 41.10	576.210	574.710	574.460			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	7.075	1.100	6.109	5.832		
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.250	1.388	0.000		
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666	1.666	3.332	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555	0.555	1.1	
	Item No. : 11 Transportation of earth Transportation charges							2.521	2.521	4.421	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.739			
	Deduction										
	Brick work	1		0.785	1.225	1.225	1.200	1.767	0.000		
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Soling	1		0.785	1.960	1.960	0.000	0.000			
								2.521			



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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. :- 024
Page No. :-

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Sewer M Branch at Chikalhana 1.2m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
		Net Qty = A - B					7.198		5.886	13.084
	CGH 3									
30/01/2016	CH 67.20	576.350	574.750	574.500			1.850			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.100	6.109	11.941	18.050
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.350	1.944	1.388	3.332
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666	3.332	4.998
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555	1.111	1.666
	Item No. 11 Transportation of earth Transportation charges							2.639	4.688	7.327
	Item No. 30 :- Refilling the excavated trenches									
	Total Excavation=							10.275		
	Deduction									
	Brick work	1			0.785	1.225	1.225	1.600	1.885	0.000
	PCC	1			0.785	1.960	1.960	0.250	0.754	
	Soling	1			0.785	1.960	1.960	0.000	0.000	
								2.639		
		Net Qty = A - B					7.636		13.084	20.720
	CGH 4									
01/02/2016	CH 93.30	576.390	574.790	574.540			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	7.075	1.100	6.109	18.050	24.159
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.350	1.944	3.332	5.276
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666	4.998	6.665
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555	1.666	2.222
	Item No. 11 Transportation of earth Transportation charges							2.639	7.327	9.966
	Item No. 30 :- Refilling the excavated trenches									
	Total Excavation=							10.275		
	Deduction									
	Brick work	1			0.785	1.225	1.225	1.600	1.885	0.000
	PCC	1			0.785	1.960	1.960	0.250	0.754	
	Soling	1			0.785	1.960	1.960	0.000	0.000	
								2.639		
		Net Qty = A - B					7.636		20.720	28.356
	CGH 5									
03/02/2016	CH 116.90	576.530	574.830	574.580			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	7.075	1.100	6.109	24.159	30.269
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.450	2.499	5.276	7.775



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Name of work:- Development of Underground Sewerage Collection system for Zone 1 & 2 and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchairwadi), Banewadi Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, CIDCO (Airport). Providing, lowering, laying jointing and testing rising and GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchairwadi) STP and Ward No.98 to

3 of 5

Sewer M Branch at Chikalthana 1.2m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total lifts Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666		6.665	8.331
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555		2.222	2.777
	Item No. : 11 Transportation of earth Transportation charges							2.756		9.966	11.742
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.830			
	Deduction										
	Brick work	1		0.785	1.225	1.225	1.700	2.003			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Soling	1		0.785	1.960	1.960	0.000	0.000			
								2.756			
								Net Qty = A - B		8.074	28.356
	CGH 6										
05/02/2016	CH 150.50	576.675	574.875	574.625			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	7.075	1.100	6.109		30.269	36.378
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.550	3.055		7.775	44.153
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666		8.331	52.484
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555		2.777	55.261
	Item No. : 11 Transportation of earth Transportation charges							2.874		12.722	67.983
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.385			
	Deduction										
	Brick work	1		0.785	1.225	1.225	1.800	2.120			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Soling	1		0.785	1.960	1.960	0.000	0.000			
								2.874			
								Net Qty = A - B		8.511	36.429
	CGH 7										
06/02/2016	CH 174.10	576.515	574.915	574.665			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	7.075	1.100	6.229		36.278	42.507
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.350	3.944		40.222	82.729
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666		9.997	92.726
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555		3.332	96.058



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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. :-

026

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Sewer M Branch at Chikalhana 1.2m MH Excavation

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. : 11 Transportation of earth Transportation charges							2.639		15.597	18.235
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.275			
	Deduction										
	Brick work	1		0.785	1.225	1.225	1.600	1.885			
								0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Soling	1		0.785	1.960	1.960	0.000	0.000			
								2.639			
								Net Qty = A - B			
	CGH 8							7.636		44.941	52.577
08/02/2016	CH 200.20	576.055	574.955	574.705			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	7.075	1.350	7.498		42.487	49.985
	Item No. : 11 Transportation of earth Transportation charges							2.050		18.235	20.285
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.498			
	Deduction										
	Brick work	1		0.785	1.225	1.225	1.100	1.296			
								0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Soling	1		0.785	1.960	1.960	0.000	0.000			
								2.050			
								Net Qty = A - B			
	CGH 9							5.448		52.577	58.025
12/02/2016	CH 243.80	575.825	575.025	574.775			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			0.785	7.075	1.050	5.832		49.985	55.816
	Item No. : 11 Transportation of earth Transportation charges							1.696		20.285	21.981
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.832			
	Deduction										
	Brick work	1		0.785	1.225	1.225	0.800	0.942			
								0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Soling	1		0.785	1.960	1.960	0.000	0.000			
								1.696			
								Net Qty = A - B			
	CGH 10							4.135		58.025	62.160
15/02/2016	CH 262.40	575.785	575.055	574.805			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.950	5.276		55.816	61.093
	Item No. : 11 Transportation of earth Transportation charges							1.579		21.981	23.560
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.276			
	Deduction										
	Brick work	1		0.785	1.225	1.225	0.700	0.825			
								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 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 Gohwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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030

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

Sewer M Branch at Chikalthana Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Of Sewer M - Chikalthana

SR NO	Description	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 17	ITEM 21	ITEM 21.1		ITEM 30	EIRL 9.3	EIRL 9.4
		0-1.5	1.5-3.0							Rebato	300mm			
1	For Pipe	336.556	40.667	71.114	23.705	51.815	281.370	65.000	Full Rate			388.70	300mm	205.00
2	For Manhole	68.036	12.774	11.663	3.888		25.492		11.000	(11.200)		70.868		
	Total	404.590	58.431	82.778	27.593	51.815	306.862	65.000	11.000	(11.200)	459.57	205.000	205.000	205.00

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CONTRACTOR



PMC



Project Engineer



Project Manager

(Signature)

Jr. Engineer

CLIENT

(Signature)

Ex. Engineer

(Signature)

Dy. Engineer

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

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Page No. -

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

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

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ChikalhanaMeas. Chikalhana

9th R A BILL MEASUREMENTS DWC PIPE CHIKALTHANA

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	DWC - 250mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.5=0.750m										
	For Lift 1.5 to 3.00m- 0.250+0.5+0.4=1.150m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.4+0.4=1.550m										
	CT 01 To CT 02										
	CH0.00	577.380	576.285	576.185			1.195	1.135			
	CH10.50	577.295	576.320	576.220			1.075				
	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	0.750	0.935	5.961	0.000	5.961	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	0.750	0.150	0.956	0.000	0.956	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.500	0.750	0.050	0.319	0.000	0.319	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)										
		1			9.100	0.750	0.100	0.683	0.000	0.683	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.129	0.000	1.129	
	Item No. 13 :- (c) Lowering & Laying of Polyethylene DWC pipe of 250mm Dia										
		1			9.600			9.600	0.000	9.600	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.236			
	Deduction of 250mm dia pipe										
	pipe area	1.000			0.785	9.100	0.250	0.250	0.445		
	soiling							0.000			
	PCC							0.000			
	Murrum bedding							0.000			
								1.129			
								0.987	0.000	6.107	
	CT 02 To CT 03										
	CH0.50	577.295	576.320	576.220			1.075	1.077			
	CH10.50	577.330	576.350	576.250			1.080				



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M. K. M. S. Construction Pvt. Ltd. & GECPL (Joint Venture)

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Chikalthana Meas. Chikalthana

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	1.000		0.785	5.600	0.250	0.250	0.275			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.410			
								0.695			
		Net Qty = A - B						3.205		11.231	14.436
	CT 04 To CT 05										
	CH27.10	577.280	576.380	576.280			1.000	0.975			
	CH32.35	577.250	576.400	576.300			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.250	0.750	0.975	2.377	14.862	17.239	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.850	0.750	0.100	0.289	1.718	2.007	
	Item No. : 11 Transportation of earth Transportation charges							0.478	2.841	3.319	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			4.350			4.350	24.400	28.750	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.377			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	3.850	0.250	0.250	0.189			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.289			
								0.478			
		Net Qty = A - B						1.899		14.436	16.335
	CT 05 To CT 06										
	CH32.35	577.250	576.400	576.300			0.950	0.925			
	CH40.35	577.230	576.430	576.330			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			6.000	0.750	0.925	4.163	17.299	21.462	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.600	0.750	0.100	0.495	2.006	2.501	
	Item No. : 11 Transportation of earth Transportation charges							0.809	3.309	4.137	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			7.100			7.100	28.750	35.850	



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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 Gobwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Page No. :-

Chikalthana Meas. Chikalthana

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Chikalthana Meas. Chikalthana

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. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						4.163				
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	6.600	0.250	0.250	0.324			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.495			
								0.819			
								3.344	16.335	19.679	
	Net Qty = A - B										
	CT 06 To CT 07										
	CH40.35	577.230	576.430	576.330			0.900	0.950			
	CH51.15	577.380	576.480	576.380			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			8.800	0.750	0.950	6.270	21.401	27.671	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.400	0.750	0.100	0.705	2.501	3.206	
	Item No. : 11 Transportation of earth Transportation charges							1.166	4.137	5.304	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			9.900			9.900	35.850	45.750	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.270			
	Deduction of 250mm dia pipe										
	pipe area	1.000		0.785	9.400	0.250	0.250	0.461			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.705			
								1.166			
	Net Qty = A - B							5.104	19.679	24.783	
	CT 07 To CT 08										
	CH51.15	577.380	576.480	576.380			1.000	0.935			
	CH62.75	577.380	576.530	576.430			0.870				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.600	0.750	0.935	6.732	27.671	34.403	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.200	0.750	0.100	0.765	3.206	3.971	
	Item No. : 11 Transportation of earth Transportation charges							1.265	5.304	6.569	



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Book No. :-

036

Page No. :-

9th R A BILL MEASUREMENTS OF CHEMBERS CHIKALTHANA

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	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									
	CT 01									
	CH0.00	577.380	576.285	576.035			1.345			
	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	1.145	3.595	0.000	3.595
	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	0.150	0.471	0.000	0.471
	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	0.000	0.157
	Item No. : 11 Transportation of earth Transportation charges							1.634	0.000	1.634
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=							4.223		
	Deduction									
	Brick work	1		0.785	1.160	1.160	1.095	1.157		
	soling							0.000		
	PCC	1		0.785	1.560	1.560	0.250	0.478		
	Murrum bedding							0.000		
	Total (B)							1.634		
	Net Qty = A - B							2.589	0.000	2.589
	CT 02									
	CH10.50	577.295	576.320	576.070			1.225			
	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	1.025	3.218	3.595	6.814
	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	0.150	0.471	0.471	0.942
	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	0.157	0.314
	Item No. : 11 Transportation of earth Transportation charges							1.507	1.634	3.142
	Item No. 30 :- Refilling the excavated trenches ...									



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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. :-

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ChikalthanaChember Chikalthana

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
CT 05											
CH32.35		577.250	576.400	576.150			1.100				
Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.											
(a) For Lift 0 to 1.5m		1			0.785	4.000	1.100	3.454	13.659	17.113	
Item No. : 11 Transportation of earth Transportation charges								1.375	6.083	7.458	
Item No. 30 :- Refilling the excavated trenches ...											
Total Excavation(A)=								3.454			
Deduction								3.454			
Brick work		1		0.785	1.160	1.160	0.850	0.898			
soling								0.000			
PCC		1		0.785	1.560	1.560	0.250	0.478			
Murrum bedding								0.000			
Total (B)								1.375			
								2.079	9.460	11.539	
CT 06											
CH40.35		577.230	576.430	576.180			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			0.785	4.000	1.050	3.297	17.113	20.410	
Item No. : 11 Transportation of earth Transportation charges								1.323	7.458	8.781	
Item No. 30 :- Refilling the excavated trenches ...											
Total Excavation(A)=								3.297			
Deduction								3.297			
Brick work		1		0.785	1.160	1.160	0.800	0.845			
soling								0.000			
PCC		1		0.785	1.560	1.560	0.250	0.478			
Murrum bedding								0.000			
Total (B)								1.323			
								1.974	11.539	13.513	
CT 07											
CH51.15		577.380	576.480	576.230			1.150				
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	1.150	3.611	20.410	24.021	
Item No. : 11 Transportation of earth Transportation charges								1.428	8.781	10.209	
Item No. 30 :- Refilling the excavated trenches ...											
Total Excavation(A)=								3.611			
Deduction								3.611			
Brick work		1		0.785	1.160	1.160	0.900	0.951			
soling								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 Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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

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

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Date	Particulars of work	DETAILS						Content of returns	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.428			
		Net Qty = A - B								13.513	15.696
	CT 08										
	CH62.75	577.300	576.530	576.280			1.020				
	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	1.020	3.203		24.021	27.224
	Item No. : 11 Transportation of earth Transportation charges							1.291		10.209	11.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.203			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.770	0.813			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.291			
		Net Qty = A - B								15.696	17.608
	CT 09										
	CH74.45	577.280	576.580	576.330			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			0.785	4.000	0.950	2.983		27.224	30.207
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000		1.413	1.413
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.000	0.000		0.471	0.471
	Item No. : 11 Transportation of earth Transportation charges							1.217		11.500	12.717
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.983			
	Deduction										
	Brick work	1		0.785	1.160	1.160	0.700	0.734			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.217			
		Net Qty = A - B								17.608	19.374



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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 Naksharwadi (Kanchanwadi), Banerwadi, Siddharth Garden, Zalta, Padegaon. CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banerwadi, 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 Naksharwadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Page No. :- 043

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

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

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ChikalhanaCHEMBER

9th R A BILL MEASUREMENTS CHEMBER DETAILS

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr	Total Rebate Qty for 30 cm
		No				
		GL	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	CHIKALTHANA					
1	CT 01	577.380	576.285	1.095	1.500	-0.405
2	CT 02	577.295	576.320	0.975	1.500	-0.525
3	CT 03	577.330	576.350	0.980	1.500	-0.520
4	CT 04	577.280	576.380	0.900	1.500	-0.600
5	CT 05	577.250	576.400	0.850	1.500	-0.650
6	CT 06	577.230	576.430	0.800	1.500	-0.700
7	CT 07	577.380	576.480	0.900	1.500	-0.600
8	CT 08	577.300	576.530	0.770	1.500	-0.730
9	CT 09	577.280	576.580	0.700	1.500	-0.800
	TOTAL					-5.530
						-18.433



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Name of work:- Development of Underground Sewerage Collection system for Zone 98 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 Commissioning 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
Author

Date of
Measuremen

ChikalathanaQuantity Abstract Chikalathana

QUANTITY ABSTRACT

CHIKALATHANA

Sr. No.	Discription	MB/PG	ITEM 1		ITEM 2	ITEM 4		ITEM 7	ITEM 11	ITEM 12		ITEM 13	ITEM 30	ITEM 35	Extra Item 2 0-1.5 m RR (1420)	Extra Item 2.a Robate
			0-1.5	1.5-3.0		0-1.5	0-1.5			250mm	250mm					
1	For Pipe		40.478		1.811	0.604	4.744	7.847		67.250	67.250	67.250	35.046	0.000		
2	For Manhole		30.207		1.413	0.471		12.717					19.374		9.000	-18.433
			70.685	0.000	3.224	1.075	4.744	20.564		67.250	67.250	67.250	54.420	0.000	9.000	-18.433
		Total														

CONTRACTOR



Authorized Signatory

PMC



Project Engineer



Project Manager

[Signature]

Jr. Engineer

CLIENT

[Signature]

Dy. Engineer

[Signature]

Ex. Engineer