

Development of Underground Sewerage Collection system for Zone I to VI
Constructing, Erecting, Testing and Commissioning of Sewage Treatment
modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth
Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission
Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
CIDCO (Airport). Providing, lowering, laying jointing and testing rising main
line from Golwadi SPS to Nakshrawadi (Kanchanwadi) STP and Ward No.98 to
Nagpur City.

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

Azad Chowk to Bajrang Chowk 0.6 x 0.9 MH Exc.

9th RA BILL MEASURMENTS DWC PIPE Azad Chowk to Bajrang Chowk

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 0.9m x 0.6m dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m										
	Bredth for chamber up to 1.5m=0.6+0.5+0.3+0.3=1.7m										
	A 01										
	CH0.00	591.120	589.775	589.525			1.595				
	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	0.000	5.100	
	(b) For Lift 1.5 to 3.0m	1			2.000	1.700	0.095	0.323	0.000	0.323	
	Item No. : 11 Transportation of earth Transportation charges							2.59	0.000	2.591	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.423			
	Deduction										
	Brick work	1			1.400	1.100	1.345	2.07			
	soling							0.00			
	PCC	1			1.600	1.300	0.250	0.52			
	Murrum bedding							0.00			
	Total (B)							2.59			
					Net Qty = A - B			2.83	0.00	2.83	
	A 02										
	CH5.60	591.255	590.235	589.985			1.270				
	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	1.270	4.318	5.100	9.418	
	(b) For Lift 1.5 to 3.0m	1			2.000	1.700	0.000	0.000	0.323	0.323	
	Item No. : 11 Transportation of earth Transportation charges							2.09	2.591	4.682	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.318			
	Deduction										
	Brick work	1			1.400	1.100	1.020	1.57			
	soling							0.00			
	PCC	1			1.600	1.300	0.250	0.52			
	Murrum bedding							0.00			
	Total (B)							2.09			
					Net Qty = A - B			2.23	2.83	5.06	



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9th RA BILL MEASUREMENTS

BRANCH SEWER AT Azad Chowk to Bajrang Chowk

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 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.5+0.5=3.20m Breadth for Manhole=3.2*3.2=10.24m AC 11 CH284.90	592.040	588.830	588.580				3.460			
	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	0.400	3.215		9.418	12.633
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000		0.323	0.323
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235		0.000	7.235
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.700	5.627		0.000	5.627
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		0.000	1.608
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.800	6.431		0.000	6.431
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.460	3.698		0.000	3.698
	Item No. : 11 Transportation of earth Transportation charges							9.967		4.682	14.650
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							27.813			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.210	4.938			
	PCC	1		0.785	1.540	1.540	2.000	3.723			
	Soling	1		0.785	2.580	2.580	0.250	1.306			
								9.967			
								Net Qty = A - B			
	AC 12							17.845		5.059	22.904
	CH308.70	592.315	588.990	588.740				3.575			
	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	0.300	2.412		12.633	15.045
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.000	8.038		7.235	15.273
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.300	2.412		5.627	8.038
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		1.608	3.215
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.100	8.842		6.431	15.273
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.100	0.804		0.000	0.804



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

Azad Chowk to Bajrang Chowk 1.5m MH Excavation

S.No.	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 3.0m to 4.5m	1			0.785	10.240	0.575	4.622	0.000	4.622	
	Item No. - 11 Transportation of earth Transportation charges							10.437	14.650	25.086	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.737			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.325	5.407			
	PCC	1		0.785	1.540	1.540	2.000	3.723			
	Soling	1		0.785	2.580	2.580	0.250	1.306			
		1		0.785	2.580	2.580	0.000	0.000			
								10.437			
	Net Qty = A - B							18.301	22.904	41.205	
AC 13	CH332.50	592.650	589.180	588.930			3.720				
	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	0.300	2.412	15.045	17.456	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.000	8.038	15.273	23.311	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.400	3.215	8.038	11.254	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	3.215	4.823	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.100	8.842	15.273	24.115	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.720	5.788	3.698	9.485	
	Item No. : 11 Transportation of earth Transportation charges							11.028	25.086	36.115	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							29.903			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.470	5.999			
	PCC	1		0.785	1.540	1.540	2.000	3.723			
	Soling	1		0.785	2.580	2.580	0.250	1.306			
		1		0.785	2.580	2.580	0.000	0.000			
								11.028			
	Net Qty = A - B							18.874	41.205	60.079	
AC 14	CH353.80	592.760	589.240	588.990			3.770				
	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	0.300	2.412	17.456	19.868	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.000	8.038	23.311	31.350	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.500	4.019	11.254	15.273	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	4.823	6.431	



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Azad Chowk to Bajrang Chowk 1.5m MH Excavation

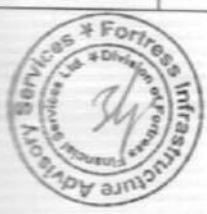
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.000	8.038		24.115	32.154
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.770	6.190		9.485	15.675
	Item No. : 11 Transportation of earth Transportation charges							11.232		36.115	47.347
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.305			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.520	6.203			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								11.232			
								19.072		60.079	79.152
	AC 15										
	CH380.10	592.900	589.320	589.070			3.830				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		19.868	22.279
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.000	8.038		31.350	39.388
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		15.273	27.331
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.200	1.608		0.000	1.608
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		6.431	8.038
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.630	5.064		15.675	20.739
	Item No. : 11 Transportation of earth Transportation charges							11.477		47.347	58.824
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.787			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.580	6.448			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								11.477			
								19.310		79.152	98.461
	AC 16										
	CH403.90	592.650	589.455	589.205			3.445				
	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	0.400	3.215		22.279	25.495
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.950	7.636		39.388	47.025
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		27.331	39.388
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



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Azad Chowk to Bajrang Chowk 1.5m MH Excavation

Sl. No.	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	10.240	0.150	1.206	8.038	9.244	
	(b) For Lift 1.5m to 4.5m	1			0.785	10.240	0.445	3.577	20.739	24.316	
	Item No. 10 - Transportation of earth Transportation charges							9.906	58.824	68.731	
	Item No. 11 - Refilling the excavated trenches										
	Total Excavation=							27.692			
	Deduction										
	Brick work	1			0.785	2.280	2.280	1.195	4.876		
		1			0.785	1.540	1.540	2.000	3.723		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soiling	1			0.785	2.580	2.580	0.000	0.000		
								9.906			
	Net Qty = A - B							17.786	98.461	116.247	
	AC 17										
	CH412.78	592.360	589.530	589.280			3.080				
	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	0.500	4.019	25.495	29.514	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.800	6.431	47.025	53.455	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.200	9.646	39.388	49.034	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	9.244	10.852	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.300	2.412	32.154	34.565	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.080	0.643	24.316	24.959	
	Item No. 11 Transportation of earth Transportation charges							8.417	68.731	77.147	
	Item No. 30 - Refilling the excavated trenches										
	Total Excavation=							24.758			
	Deduction										
	Brick work	1			0.785	2.280	2.280	0.830	3.387		
		1			0.785	1.540	1.540	2.000	3.723		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soiling	1			0.785	2.580	2.580	0.000	0.000		
								8.417			
	Net Qty = A - B							16.342	116.247	132.589	
	AC 18										
	CH414.00	592.315	589.715	589.465			2.850				
	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	0.900	7.235	29.514	36.749	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.350	10.852	0.323	11.175	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	53.455	55.867	
	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.

Book No. :- 005
Page No. :-

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Azad Chowk to Bajrang Chowk 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							
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		10.852	13.263
	Item No. : 11 Transportation of earth Transportation charges							7.478		77.147	84.626
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.909			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.600	2.448			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								7.478			
	Net Qty = A - B							15.431		132.589	148.020
	AC 20										
	CH523.80	593.325	590.785	590.535			2.790				
	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	0.900	7.235		36.749	43.983
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.290	10.370		11.175	21.544
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		55.867	58.278
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		13.263	15.675
	Item No. : 11 Transportation of earth Transportation charges							7.233		84.626	91.859
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.427			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.540	2.204			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								7.233			
	Net Qty = A - B							15.194		148.020	163.214
	AC 21										
	CH545.10	594.240	591.125	590.875			3.365				
	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	0.900	7.235		43.983	51.218
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058		21.544	33.602
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.365	2.934		0.000	2.934
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		58.278	60.690
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412		15.675	18.086



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Azad Chowk to Bajrang Chowk 1.5m MH Excavation

Sl. No.	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
Item No. 10	Transportation of earth						9.580		91.859	101.439
Item No. 30	Refilling the excavated trenches ...									
Total Excavation=							27.049			
Deduction										
	Brick work	1		0.785	2.280	2.280	1.115	4.550		
		1		0.785	1.540	1.540	2.000	3.723		
	PCC	1		0.785	2.580	2.580	0.250	1.306		
	Soling	1		0.785	2.580	2.580	0.000	0.000		
							9.580			
Net Qty = A - B							17.469		163.214	180.684
AC 22										
CHS30.40		596.115	591.800	591.550			4.565			
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	0.900	7.235	51.218	58.452
(b)	For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	33.602	45.660
(c)	For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	2.934	14.992
(d)	For Lift 4.5m to 6.0m	1			0.785	10.240	0.065	0.522	0.000	0.522
Item No. 2	Excavation for foundation/pipe trenches in Hard murrum etc complete.									
(a)	For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	60.690	63.101
Item No. 4	Excavation for foundation/pipe trenches in soft rock etc complete.									
(a)	For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	18.086	20.498
Item No. 11	Transportation of earth						14.477		101.439	115.915
Item No. 30	Refilling the excavated trenches ...									
Total Excavation=							36.695			
Deduction										
	Brick work	1		0.785	2.280	2.280	2.315	9.447		
		1		0.785	1.540	1.540	2.000	3.723		
	PCC	1		0.785	2.580	2.580	0.250	1.306		
	Soling	1		0.785	2.580	2.580	0.000	0.000		
							14.477			
Net Qty = A - B							22.219		180.684	202.902
AC 23										
CHS30.20		596.060	592.250	592.000			4.060			
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	0.900	7.235	58.452	65.687
(b)	For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	45.660	57.717
(c)	For Lift 3.0m to 4.5m	1			0.785	10.240	1.060	8.521	14.992	23.512
Item No. 2	Excavation for foundation/pipe trenches in Hard murrum etc complete.									
(a)	For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	63.101	65.513
Item No. 4	Excavation for foundation/pipe trenches in soft rock etc complete.									
(a)	For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	20.498	22.909



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Azad Chowk to Bajrang Chowk 1.5m MH Excavation

Book No: 307
 Page No: 009

Item	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=							29.421				
Deduction											
	Brick work	1		0.785	2.280	2.280	1.410	5.754			
		1		0.785	1.540	1.540	2.000	3.723			
	MCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
							10.784				
Net Qty = A - B							18.637		242.016	260.653	
AC 26	CR76.40	596.325	592.985	592.735			3.590				
Item No. 3 - Excavation for foundation/pipe trenches in earth soils, soft murrum etc complete.											
	(a) For Lift 0 to 1.5m	1		0.785	10.240	0.800	6.431		80.156	86.587	
	(b) For Lift 1.5m to 3.0m	1		0.785	10.240	1.500	12.058		81.832	93.890	
	(c) For Lift 3.0m to 4.5m	1		0.785	10.240	0.590	4.743		34.646	39.388	
Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1		0.785	10.240	0.300	2.412		70.336	72.748	
Item No. 4 - Excavation for foundation/pipe trenches in soft soil etc complete.											
	(a) For Lift 0 to 1.5m	1		0.785	10.240	0.400	3.215		27.732	30.948	
Item No. - 11 Transportation of earth Transportation charges											
							10.498		150.164	160.662	
Item No. 30 - Refilling the excavated trenches ...											
Total Excavation=							28.858				
Deduction											
	Brick work	1		0.785	2.280	2.280	1.340	5.468			
		1		0.785	1.540	1.540	2.000	3.723			
	MCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
							10.498				
Net Qty = A - B							18.360		260.653	279.013	
AC 27	CR76.40	596.435	593.105	592.855			3.580				
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	0.900	7.235		86.587	93.821	
	(b) For Lift 1.5m to 3.0m	1		0.785	10.240	1.400	11.254		93.890	105.144	
Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1		0.785	10.240	0.300	2.412		72.748	75.159	
	(b) For Lift 1.5m to 3.0m	1		0.785	10.240	0.100	0.804		49.034	49.838	
	(c) For Lift 3.0m to 4.5m	1		0.785	10.240	0.200	1.608		1.608	3.215	
Item No. 4 - Excavation for foundation/pipe trenches in soft											
	(a) For Lift 0 to 1.5m	1		0.785	10.240	0.300	2.412		30.948	33.359	
	(c) For Lift 3.0m to 4.5m	1		0.785	10.240	0.380	3.055		24.959	28.014	
Item No. - 11 Transportation of											
							10.457		160.662	171.119	
Item No. 30 - Refilling the excavated trenches ...											



Jay

Plant based on modern technology at Nakshtravadi (Kachanwadi), 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/SPS10, Nakshtravadi (Kachanwadi) STP and Ward No.98 to STP for Aurangabad City.

Name of Agency:- M/s Khilari Infrastructure Pvt Ltd & GECPL (Joint Venture)
 Authority No. AMC/Ward B&C/UIDSSMT/2014/183 Date: 01.07.2014

9 of 9

Azad Chowk to Bajrang Chowk 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							
	Total Excavation=							28.777			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.330	5.427			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								10.457			
								18.320	279.013	297.334	
	AC 28										
	CH781.70	596.615	593.325	593.075			3.540				
	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	0.900	7.235	93.821	101.056	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.100	8.842	105.144	113.986	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	39.388	39.388	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000	0.522	0.522	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	75.159	77.571	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.400	3.215	49.838	53.053	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	3.215	3.215	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.300	2.412	33.359	35.771	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	34.565	34.565	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.540	4.341	28.014	32.355	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	0.804	0.804	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	4.622	4.622	
	Item No. : 11 Transportation of earth Transportation charges							10.294	171.119	181.413	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							28.456			
	Deduction										
	Brick work	1		0.785	2.280	2.280	1.290	5.264			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								10.294			
								18.162	297.334	315.496	



Jay

Azad Chowk to Bajrang Chowk 1.2 MH Exc.

Bill & Bill Measurements of Chambers Azad Chowk to Bajrang Chowk

Sl. No.	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Sewer at Azad Chowk to Bajrang Chowk										
	Excavation of Chamber - For 1.2M dia chamber (upto 1.2m depth) 1.20-0.50-0.5-0.5-2.66m										
	Depth for chamber upto 1.20-0.50-2.66-7.875m										
	W. 15										
	ITEM NO. 1	592.525	590.275	590.025			2.500				
	Item No. 1 -> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1.000									
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.900	5.00	101.06	106.05	
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	1.000	5.55	113.99	119.54	
	(d) For Lift 4.5m to 6.0m	1.000			0.785	7.075	0.000	0.00	39.39	39.39	
					0.785	7.075	0.000	0.00	0.52	0.52	
	Item No. 2 -> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1.000									
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.300	1.67	77.57	79.24	
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00	53.05	53.05	
					0.785	7.075	0.000	0.00	3.22	3.22	
	Item No. 4 -> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1.000									
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.300	1.67	35.77	37.44	
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00	34.57	34.57	
					0.785	7.075	0.000	0.00	32.35	32.35	
	ITEM NO. 5 -> Excavation for foundation / pipe trenches in granite rock masses by chiseling etc. Completed.										
	(a) For Lift 1.5m to 3.0m	1.000									
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00	0.80	0.80	
					0.785	7.075	0.000	0.00	4.62	4.62	
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading							3.785	181.41	185.20	
	Item No. 30 -> Refilling the excavated trenches ...										
	Total Excavation(A)=							13.885			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.250	3.03			
	Brick work							0.00			
	PCJ	1.00		0.785	1.96	1.96	0.250	0.75			
	Warman bedding							0.00			
	Total (B)							3.78			
	Net Qty = A - B							10.10	315.50	325.60	
	CH 12.00	589.125	587.405	587.155			1.970				
	Item No. 1 -> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1.000									
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	1.500	8.33	106.05	114.39	
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.470	2.61	119.54	122.15	
					0.785	7.075	0.000	0.00	39.39	39.39	



Yaj

2 of 3

Azad Chowk to Bajrang Chowk 1.2 MH Exc.

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(d) For Lift 4.5m to 6.0m	1.000			0.785	7.075	0.000	0.00		0.52	0.52
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.000	0.00		79.24	79.24
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.000	0.00		53.05	53.05
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00		3.22	3.22
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.000	0.00		37.44	37.44
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.000	0.00		34.57	34.57
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00		32.35	32.35
	ITEM NO. 5 :- Excavation for foundation / pipe trenches in laterite rock masses by chhiseling etc. Completed.										
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.000	0.00		0.80	0.80
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00		4.62	4.62
	Item No. : 11 Transportation of earth Transportation charges							3.071		185.20	188.27
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							10.941			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.720	2.32			
	Brick work							0.00			
	PCC	1.00		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	Total (B)							3.07			
					Net Qty = A - B			7.87		325.60	333.47
	AZ 02										
	CH15.20	589.095	587.655	587.405			1.690				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	1.500	8.33		114.39	122.72
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.190	1.06		122.15	123.21
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00		39.39	39.39
	(d) For Lift 4.5m to 6.0m	1.000			0.785	7.075	0.000	0.00		0.52	0.52
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.000	0.00		79.24	79.24
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.000	0.00		53.05	53.05
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00		3.22	3.22
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.000	0.00		37.44	37.44
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.000	0.00		34.57	34.57
	(c) For Lift 3.0m to 4.5m	1.000			0.785	7.075	0.000	0.00		32.35	32.35
	ITEM NO. 5 :- Excavation for foundation / pipe trenches in laterite rock masses by chhiseling etc. Completed.										



Jey

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. :-

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

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

1 of 1

Azad Chowk to Bajrang Chowk MANHOLE

9th RA BILL MEASURMENTS

Sewer at Azad Chowk to Bajrang Chowk

Item No. : 23 Providing and constructing on sewer BBM manhole 1.5 m dia at bottom and 0.5 m dia at top and up to a depth of 5 M

Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1	CH 284.90	AC 11	592.040	588.830	3.210	-1.790	-28.645	-57.290
2	CH 308.70	AC 12	592.315	588.990	3.325	-1.675		
3	CH 332.50	AC 13	592.650	589.180	3.470	-1.530		
4	CH 353.80	AC 14	592.760	589.240	3.520	-1.480		
5	CH 380.10	AC 15	592.900	589.320	3.580	-1.420		
6	CH 403.90	AC 16	592.650	589.455	3.195	-1.805		
7	CH 432.70	AC 17	592.360	589.530	2.830	-2.170		
8	CH 459.00	AC 18	592.315	589.715	2.600	-2.400		
9	CH 523.80	AC 20	593.325	590.785	2.540	-2.460		
10	CH 545.10	AC 21	594.240	591.125	3.115	-1.885		
11	CH 583.90	AC 22	596.115	591.800	4.315	-0.685		
12	CH 630.20	AC 23	596.060	592.250	3.810	-1.190		
13	CH 679.00	AC 24	596.145	592.670	3.475	-1.525		
14	CH 707.80	AC 25	596.240	592.830	3.410	-1.590		
15	CH 736.60	AC 26	596.325	592.985	3.340	-1.660		
16	CH 760.40	AC 27	596.435	593.105	3.330	-1.670		
17	CH 781.70	AC 28	596.615	593.325	3.290	-1.710		
Total							-28.645	-57.290

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 M

Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 2 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1	CH 497.65	AC 19	592.525	590.275	2.250	0.250	-0.590	-1.180
2	CH 12.00	AZ 01	589.125	587.405	1.720	-0.280		
3	CH 15.20	AZ 02	589.095	587.655	1.440	-0.560		
Total							-0.590	-1.180

Extra Item No. : 03 Providing and constructing on sewer BBM manhole 0.6 x 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M

Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1	CH 0.00	A 01	591.120	589.775	1.345	-0.155	-0.635	-2.117
2	CH 5.60	A 02	591.255	590.235	1.020	-0.480		
Total							-0.635	-2.117



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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. :-
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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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contains f Arrears	Page No.	Quantity	
									10

SR NO	Description	MB/PG	ITEM 12	ITEM 13	ITEM 17	ITEM 21	ITEM 21.1	ITEM 23	ITEM 23.1	ITEM 30	EIRL3 Full Rate	EIRL 3.a Rebate
1	For Pipe		200mm 12.800	200mm 12.800	500mm 495.000 5.000	upto 2 m Full Rate 3.000	Rebate (1.180)	2-5 m 17.00	Rebate (57.290)	2,427.31 340.158	2.000	(2.117)
2	For Manhole		12.800	12.800	495.000 5.000	3.000	(1.180)	17.00	(57.290)	2,767.47	2.000	(2.117)
	Total											

Azad Chowk to Bajrang Chowk Quantity Node Abstract
9th R A BILL MEASUREMENTS
Branch Sewer - Azad Chowk to Bajrang Chowk

CLIENT
Dy. Engineer
Ex. Engineer

PROJECT MANAGER
Jr. Engineer

PMC
Project Engineer

CONTRACTOR
Khilari Infra Pvt. Ltd.
Authorized Signatory



Azad Chowk to Siddharth Chowk Meas 250mm RCC

RCC
Part R A BILL MEASUREMENTS DWT PIPE Azad Chowk to Siddharth Chowk

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	W.C. - 250 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.250+0.08+0.08+0.5=0.91m										
	For Lift 1.5 to 3.00m- 0.250+0.08+0.08+0.5+0.4=1.31m										
	For Lift 3.0 to 4.5m- 0.250+0.08+0.08+0.5+0.4+0.4=1.71m										
	AS 02 to AS 02/01										
	CR10.00	592.900	590.645	590.545			2.355	2.077			
	CR10.90	592.900	591.200	591.100			1.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.6	1.310	1.500	18.805	0.000	18.805	
	(b) For Lift 1.5m to 3.0m	1			9.6	0.910	0.577	5.029	0.000	5.029	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.6	1.310	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			9.6	1.310	0.000	0.000	0.000	0.000	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			9.6	0.910	0.100	0.871	0.000	0.871	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.689	0.000	1.689	
	Extra item 9.4 (b)- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			10.00			10.000	0.000	10.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							23.834			
	Deduction of 250mm dia pipe pipe area	1.00		0.785	9.57	0.330	0.330	0.82			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.87			
								1.69			
	Net Qty = A - B							22.15	0.00	22.15	



Jay P

9th R A BILL MEASUREMENTS
Branch Sewer at Azad Chowk to Siddharth Chowk

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 Branch at Azad Chowk to Siddharth Chowk										
	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										
29-Mar-16	AC 18 to AS 01	Branch line from Azad Chowk to Bajrang Chowk (CH-466.60, MH No. AC 18)									
	CH0.00	592.315	590.100	589.900			2.415	2.403			
	CH15.50	592.350	590.160	589.960			2.390				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.170	1.600	1.050	23.806	18.805	42.611	
	(b) For Lift 1.5m to 3.0m	1			14.170	1.200	0.160	2.721	5.029	7.750	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.170	1.600	0.300	6.802	0.000	6.802	
	(b) For Lift 1.5m to 3.0m	1			14.170	1.200	0.743	12.634	0.000	12.634	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.170	1.600	0.150	3.401	0.000	3.401	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.170	1.200	0.200	3.401	0.871	4.272	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							6.766	1.689	8.455	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000	0.000	15.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							49.363			
	Deduction										
	pipe area	1		0.785	14.170	0.550	0.550	3.365			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							3.401			
	Total = B							6.766			
	Net Qty = A - B							42.597	22.145	64.742	
1-Apr-16											
	CH15.50	592.350	590.160	589.960			2.390	2.440			
	CH31.00	592.550	590.260	590.060			2.490				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.170	1.600	1.050	23.806	42.611	66.416	
	(b) For Lift 1.5m to 3.0m	1			14.170	1.200	0.150	2.551	7.750	10.301	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



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... of Undergound Sewerage Collection system for Zone I to VI
... Constructing, Erecting, Testing and Commissioning of Sewage Treatment
... Technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth
... (CIDCO Airport), Construction, Erection, Testing and Commission
... Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
... and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main
... pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to
... for Aurangabad City.

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Azad Chowk to Siddharth Chowk 400mm

(a) For Lift 0 to 1.5m	1			14.170	1.600	0.300	6.802		6.802	13.603
(b) For Lift 1.5m to 3.0m	1			14.170	1.200	0.300	5.101		12.634	17.735
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			14.170	1.600	0.150	3.401		3.401	6.802
(b) For Lift 1.5m to 3.0m	1			14.170	1.200	0.490	8.332		0.000	8.332
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.170	1.200	0.200	3.401		4.272	7.672
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							6.766		8.455	15.220
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		15.000	30.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							49.992			
Deduction										
pipe area	1		0.785	14.170	0.550	0.550	3.365			
soling							0.000			
PCC							0.000			
Murum bedding							3.401			
Total = B							6.766			
							Net Qty = A - B	43.226	64.742	107.968
4-Apr-16 AS 01 to AS 02										
CH31.00	592.550	590.575	590.375			2.175	2.315			
CH44.50	592.900	590.645	590.445			2.455				
Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m	1			10.840	1.600	0.900	15.610		66.416	82.026
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(a) For Lift 0 to 1.5m	1			10.840	1.600	0.450	7.805		13.603	21.408
(b) For Lift 1.5m to 3.0m	1			10.840	1.200	0.815	10.602		17.735	28.337
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			10.840	1.600	0.150	2.602		6.802	9.403
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.840	1.200	0.200	2.602		7.672	10.274
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							5.176		15.220	20.396
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.500			12.500		30.000	42.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							36.618			
Deduction										
pipe area	1		0.785	10.840	0.550	0.550	2.574			
soling							0.000			
PCC							0.000			
Murum bedding							2.602			
Total = B							5.176			
							Net Qty = A - B	31.442	107.968	139.410



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Azad Chowk to Siddharth Chowk 400mm

CH172.70	595.380	592.195	591.995			3.385					
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.											
(a) For Lift 0 to 1.5m	1			24.050	2.000	0.300	14.430			158.317	172.747
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
(a) For Lift 0 to 1.5m	1			24.050	2.000	1.000	48.100			138.418	186.518
(b) For Lift 1.5m to 3.0m	1			24.050	1.600	1.500	57.720			113.561	171.281
(c) For Lift 3.0m to 4.5m	1			24.050	1.200	0.130	3.752			0.000	3.752
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
(a) For Lift 0 to 1.5m	1			24.050	2.000	0.200	9.620			37.286	46.906
Item No. 7 :- Filling in plinth and floors/ trenches etc	1			24.050	1.200	0.200	5.772			32.392	38.164
Item No. :- 11 Transportation of earth Transportation charges								11.483		64.399	75.882
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.000			25.000			141.000	166.000
Item No 30 :- Refilling the excavated trenches ...											
Total Excavation= A											
Deduction								133.622			
pipe area											
soling	1		0.785	24.050	0.550	0.550	5.711				
PCC										0.000	
Murrum bedding										0.000	
Total = B								5.772			
								11.483			
6-May-16 AS 06 to AS 07								122.139		432.146	554.285
CH172.70											
CH201.50	595.380	592.445	592.245			3.135					
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.	595.970	592.595	592.395			3.575	3.355				
(a) For Lift 0 to 1.5m	1										
(b) For Lift 1.5m to 3.0m	1			25.600	2.000	1.100	56.320			172.747	229.067
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				25.600	1.600	0.200	8.192			10.301	18.493
(a) For Lift 0 to 1.5m	1										
(b) For Lift 1.5m to 3.0m	1			25.600	2.000	0.250	12.800			186.518	199.318
(c) For Lift 3.0m to 4.5m	1			25.600	1.600	1.300	53.248			171.281	224.529
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.				25.600	1.200	0.355	10.906			3.752	14.657
(a) For Lift 0 to 1.5m	1										
Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			25.600	2.000	0.150	7.680			46.906	54.586
Item No. :- 11 Transportation of earth Transportation charges including loading & unloading				25.600	1.200	0.200	6.144			38.164	44.308
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.500			27.500			12.223	75.882
Item No 30 :- Refilling the excavated trenches ...										88.105	
Total Excavation= A										166.000	193.500
								149.146			



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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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Azad Chowk to Siddharth Chowk 400mm

	Deduction											
	pipe area	1		0.785	25.600	0.550	0.550		6.079			
	soling								0.000			
	PCC								0.000			
	Murum bedding								6.144			
	Total = B								12.223			
				Net Qty = A - B					136.923		554.285	691.207
7-May-16	AS 07 to AS 08											
	CH201.50	595.970	593.055	592.855				3.115				
	CH232.80	596.660	593.485	593.285				3.375	3.245			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc											
	(a) For Lift 0 to 1.5m	1			28.100	2.000	1.100		61.820	229.067	290.887	
	(b) For Lift 1.5m to 3.0m	1			28.100	1.600	1.500		67.440	18.493	85.933	
	(c) For Lift 3.0m to 4.5m	1			28.100	1.200	0.245		8.261	0.000	8.261	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			28.100	2.000	0.250		14.050	199.318	213.368	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			28.100	2.000	0.150		8.430	54.586	63.016	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			28.100	1.200	0.200		6.744	44.308	51.052	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading								13.417	88.105	101.522	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.000				30.000	193.500	223.500	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A								160.001			
	Deduction											
	pipe area	1		0.785	28.100	0.550	0.550		6.673			
	soling								0.000			
	PCC								0.000			
	Murum bedding								6.744			
	Total = B								13.417			
				Net Qty = A - B					146.585		691.207	837.792
10-May-16	AS 08 to AS 09											
	CH232.80	596.660	593.985	593.785				2.875				
	CH250.95	596.990	593.999	593.799				3.191	3.033			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc											
	(a) For Lift 0 to 1.5m	1			16.550	2.000	1.100		36.410	290.887	327.297	
	(b) For Lift 1.5m to 3.0m	1			16.550	1.600	1.200		31.776	85.933	117.709	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			16.550	2.000	0.200		6.620	213.368	219.988	
	(b) For Lift 1.5m to 3.0m	1			16.550	1.600	0.300		7.944	224.529	232.473	
	(c) For Lift 3.0m to 4.5m	1			16.550	1.200	0.033		0.655	14.657	15.313	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			16.550	2.000	0.200		6.620	63.016	69.636	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.550	1.200	0.200		3.972	51.052	55.024	



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Azad Chowk to Siddharth Chowk 400mm

	(a) For Lift 0 to 1.5m	1			16.550	2.000	0.300	9.930		512.267	522.192
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.550	2.000	1.000	33.100		453.176	486.276
	(b) For Lift 1.5m to 3.0m	1			16.550	1.600	0.800	21.184		571.087	592.271
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.550	2.000	0.200	6.620		133.968	140.588
	(b) For Lift 1.5m to 3.0m	1			16.550	1.600	0.700	18.536		32.831	51.367
	(c) For Lift 3.0m to 4.5m	1			16.550	1.200	0.185	3.674		0.000	3.674
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			16.550	1.200	0.200	3.972		98.608	102.580
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.902		196.131	204.033
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500			17.500		434.000	451.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							93.044			
	Deduction										
	pipe area	1		0.785	16.550	0.550	0.550	3.930			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							3.972			
	Total = B							7.902			
								Net Qty = A - B			
								85.142		1688.046	1773.189
1-Jun-16	AS 15 to AS 16										
	CH469.90	603.550	600.915	600.715				2.835			
	CH485.55	604.155	601.155	600.955				3.200	3.018		
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	0.300	8.430		522.197	530.627
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	1.000	28.100		486.276	514.376
	(b) For Lift 1.5m to 3.0m	1			14.050	1.600	1.000	22.480		592.271	614.751
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	0.200	5.620		140.588	146.208
	(b) For Lift 1.5m to 3.0m	1			14.050	1.600	0.500	11.240		51.367	62.607
	(c) For Lift 3.0m to 4.5m	1			14.050	1.200	0.018	0.303		3.674	3.978
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			14.050	1.200	0.200	3.372		102.580	105.952
	Item No. : 11 Transportation of earth Transportation charges							6.708		204.033	210.741
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		451.500	466.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							76.173			
	Deduction										
	pipe area	1		0.785	14.050	0.550	0.550	3.336			
	soling							0.000			
	PCC							0.000			



Yup

Azad Chowk to Siddharth Chowk 400mm

	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1				15.000			15.000		479.000	494.000	
	Item No 30 :- Refilling the excavated trenches ...												
	Total Excavation= A								55.941				
	Deduction												
	pipe area	1				0.785	14.050	0.550	0.550	3.336			
	soling									0.000			
	PCC									0.000			
	Murum bedding									3.372			
	Total = B									6.708			
7-Jun-16										Net Qty = A - B	49.233	1901.934	1951.167
	CH514.35	604.450	601.765	601.565					2.885	2.950			
	CH527.50	604.640	601.825	601.625				3.015					
	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				11.550	1.600	0.300		5.544	544.301	549.845	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.												
	(a) For Lift 0 to 1.5m	1				11.550	1.600	1.000		18.480	559.956	578.436	
	(b) For Lift 1.5m to 3.0m	1				11.550	1.200	1.450		20.097	652.101	672.198	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.												
	(a) For Lift 0 to 1.5m	1				11.550	1.600	0.200		3.696	155.324	159.020	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				11.550	1.200	0.200		2.772	112.096	114.868	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading									5.515	222.964	228.479	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1				12.500				12.500	494.000	506.500	
	Item No 30 :- Refilling the excavated trenches ...												
	Total Excavation= A												
	Deduction									47.817			
	pipe area	1				0.785	11.550	0.550	0.550	2.743			
	soling									0.000			
	PCC									0.000			
	Murum bedding									2.772			
	Total = B									5.515			
8-Jun-16	AS 17 to AS 18									Net Qty = A - B	42.302	1951.167	1993.470
	CH527.50	604.640	601.825	601.625					3.015	3.012			
	CH546.30	604.640	601.831	601.631				3.009					
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc												
	(a) For Lift 0 to 1.5m	1				15.600	2.000	0.700		21.840	549.845	571.685	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.												
	(a) For Lift 0 to 1.5m	1				15.600	2.000	0.600		18.720	578.436	597.156	
	(b) For Lift 1.5m to 3.0m	1				15.600	1.600	1.500		37.440	672.198	709.638	
	(c) For Lift 3.0m to 4.5m	1				15.600	1.200	0.012		0.225	38.254	38.479	



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work:- Development of Underground Sewerage Collection System for ...
 based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth ...
 Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission ...
 Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward ...
 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main ...
 from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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Azad Chowk to Siddharth Chowk 400mm

Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			15.600	2.000	0.200	6.240		159.020	165.260
Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			15.600	1.200	0.200	3.744		114.868	118.612
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.448		228.479	235.927
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500			17.500		506.500	524.000
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							84.465			
Deduction										
pipe area	1		0.785	15.600	0.550	0.550	3.704			
soiling							0.000			
PCC							0.000			
Murram bedding							3.744			
Total = B							7.448			
				Net Qty = A - B			77.016		1993.470	2070.486
8-Jun-16 AS 18 to AS 19										
CH546.30	604.640	602.071	601.871				2.769	2.887		
CH565.10	604.890	602.085	601.885				3.005			
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			15.600	1.600	0.700	17.472		571.685	589.157
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(a) For Lift 0 to 1.5m	1			15.600	1.600	0.600	14.976		597.156	612.132
(b) For Lift 1.5m to 3.0m	1			15.600	1.200	1.397	25.965		709.638	735.602
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			15.600	1.600	0.200	4.992		165.260	170.252
Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			15.600	1.200	0.200	3.744		118.612	122.356
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							7.448		235.927	243.376
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500			17.500		524.000	541.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation= A							63.405			
Deduction										
pipe area	1		0.785	15.600	0.550	0.550	3.704			
soiling							0.000			
PCC							0.000			
Murram bedding							3.744			
Total = B							7.448			
				Net Qty = A - B			55.956		2070.486	2126.442
11-Jun-16 AS 19 to AS 20										
CH565.10	604.890	602.335	602.135				2.755	2.863		
CH578.25	605.180	602.410	602.210				2.970			



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Azad Chowk to Siddharth Chowk 400mm

soling								0.000			
PCC								0.000			
Murram bedding								3.372			
Total = B								6.708			
Net Qty = A - B								69.499		2167.539	2237.037
18-Jun-16	AS 20 to AS 21										
	CH593.90	605.340	602.550	602.350			2.990				
	CH609.55	605.930	602.660	602.460			3.470	3.230			
	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			14.050	2.000	0.300	8.430		607.789	616.219
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	1.000	28.100		654.054	682.154
	(b) For Lift 1.5m to 3.0m	1			14.050	1.600	1.300	29.224		771.942	801.166
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	0.200	5.620		179.568	185.188
	(b) For Lift 1.5m to 3.0m	1			14.050	1.600	0.200	4.496		91.470	95.966
	(c) For Lift 3.0m to 4.5m	1			14.050	1.200	0.230	3.878		6.740	10.618
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.050	1.200	0.200	3.372		128.500	131.872
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							6.708		255.599	262.307
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		569.000	584.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A							79.748			
	Deduction										
	pipe area	1		0.785	14.050	0.550	0.550	3.336			
	soling							0.000			
	PCC							0.000			
	Murram bedding							3.372			
	Total = B							6.708			
Net Qty = A - B								73.039		2237.037	2310.077
21-Jun-16											
	CH609.55	605.930	602.660	602.460			3.470				
	CH625.20	606.210	602.720	602.520			3.690	3.580			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	0.500	14.050		616.219	630.269
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	0.800	22.480		682.154	704.634
	(b) For Lift 1.5m to 3.0m	1			14.050	1.600	1.500	33.720		801.166	834.886
	(c) For Lift 3.0m to 4.5m	1			14.050	1.200	0.100	1.686		38.479	40.165
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.050	2.000	0.200	5.620		185.188	190.808
	(c) For Lift 3.0m to 4.5m	1			14.050	1.200	0.480	8.093		10.618	18.711



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Azad Chowk to Siddharth Chowk 400mm

	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			14.050	1.200	0.200	3.372		131.872	135.244	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							6.708		262.307	269.015	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.000			15.000		584.000	599.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A							85.649				
	Deduction											
	pipe area	1			0.785	14.050	0.550	0.550	3.336			
	soling								0.000			
	PCC								0.000			
	Murum bedding								3.372			
	Total = B							6.708				
23-Jun-16	AS 21 to AS 22								Net Qty = A - B	78.940	2310.077	2389.017
	CH625.20	606.210	602.750	602.550				3.660				
	CH667.50	605.550	602.900	602.700				2.850	3.255			
	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			39.100	2.000	0.600	46.920		630.269	677.189	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			39.100	2.000	0.700	54.740		704.634	759.374	
	(b) For Lift 1.5m to 3.0m	1			39.100	1.600	1.500	93.840		834.886	928.726	
	(c) For Lift 3.0m to 4.5m	1			39.100	1.200	0.255	11.965		40.165	52.129	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			39.100	2.000	0.200	15.640		190.808	206.448	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			39.100	1.200	0.200	9.384		135.244	144.628	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							18.669		269.015	287.684	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			41.000			41.000		599.000	640.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A							223.105				
	Deduction											
	pipe area	1			0.785	39.100	0.550	0.550	9.285			
	soling								0.000			
	PCC								0.000			
	Murum bedding								9.384			
	Total = B							18.669				
25-Jun-16	AS 22 to AS 23								Net Qty = A - B	204.436	2389.017	2593.453
	CH667.50	605.550	602.950	602.750				2.800				
	CH703.80	605.360	603.090	602.890				2.470	2.635			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.											



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI
 at the 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
 of 400mm dia pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to
 STP at Anandnagar City.

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Azad Chowk to Siddharth Chowk 400mm

Item No. 12 Transportation of earth Transportation charges including loading & unloading							7.902		326.001	333.903
Item No.17 (a):- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.500			17.500		725.000	742.500
Item No.30:- Refilling the excavated trenches ...										
Total Excavation- A							62.261			
Deduction										
pipe area	1		0.785	16.550	0.550	0.550	3.930			
soling							0.000			
PCC							0.000			
Murum bedding							3.972			
Total = B							7.902			
							Net Qty = A - B		54.359	2847.479 2901.838
7-Jul-16										
CH773.90	606.150	603.740	603.540				2.610			
CH794.55	606.680	603.900	603.700				2.980	2.795		
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			19.050	1.600	1.100	33.528		847.557	881.085
(b) For Lift 1.5m to 3.0m	1			19.050	1.200	0.200	4.572		227.052	231.624
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(a) For Lift 0 to 1.5m	1			19.050	1.600	0.200	6.096		790.350	796.446
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1			19.050	1.600	0.200	6.096		237.424	243.520
(b) For Lift 1.5m to 3.0m	1			19.050	1.200	0.200	4.572		95.966	100.538
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(b) For Lift 1.5m to 3.0m	1			19.050	1.200	0.895	20.460		13.577	34.036
Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			19.050	1.200	0.200	4.572		167.860	172.432
Item No. : 11 Transportation of earth Transportation charges including loading & unloading							9.096		333.903	342.998
Item No.17 (a):- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.000			20.000		742.500	762.500
Item No.30:- Refilling the excavated trenches ...										
Total Excavation- A							75.324			
Deduction										
pipe area	1		0.785	19.050	0.550	0.550	4.524			
soling							0.000			
PCC							0.000			
Murum bedding							4.572			
Total = B							9.096			
							Net Qty = A - B		66.228	2901.838 2968.066
7-Jul-16										
CH794.55	606.680	603.900	603.700				2.980	2.855		
CH813.20	606.630	604.100	603.900				2.730			



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9th R A BILL MEASUREMENTS OF CHEMBERS Azad Chowk to Siddharth Chowk

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Sewer at Azad Chowk to Siddharth Chowk										
	Excavation of Chamber - For 1.20 dia chamber (upto 2.0m depth): 1.20*0.50*0.5+0.5=2.66m Width for chamber upto 2m=2.66*2.66=7.075m										
	AS 01										
	CH31.00	592.550	590.260	590.010			2.540				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	1.050	5.83	0.00	5.83	
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.150	0.83	0.00	0.83	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.300	1.67	0.00	1.67	
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.300	1.67	0.00	1.67	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.150	0.83	0.00	0.83	
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	0.590	3.28	0.00	3.28	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.839	0.00	3.84	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							14.107			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.290	3.08			
	PCC	1.00		0.785	1.96	1.96	0.250	0.75			
	Murrum bedding							0.00			
	Total (B)							3.84			
								10.27	0.00	10.27	
	AS 02										
	CH44.50	592.900	590.645	590.395			2.505				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.900	5.00	5.83	10.83	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.450	2.50	1.67	4.17	
	(b) For Lift 1.5m to 3.0m	1.000			0.785	7.075	1.005	5.58	1.67	7.25	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1.000			0.785	7.075	0.150	0.83	0.83	1.67	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.792	3.84	7.63	



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