

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

Book No :-

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9th FA BILL MEASUREMENTS

Branch Sewer - Azad Chowk Botni Garden

SR NO	Description	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 12		ITEM 13	ITEM 21	ITEM 21.1	ITEM 30	EIRL 2	EIRL 2.a	EIRL 3	EIRL 3.a	EIRL 3.b	EIRL 3.c	EIRL 3.d							
		0-1.8	1.8-3.0					200mm	200mm												Full Rate	Rebate	Full Rate	Rebate			
1	For Pipe	203.892	66.149	11.370	4.548	20.986	33.327	2.400	2.400	2.400	upto 2 m	251.73															
2	For Manholes	64.056	26.742	1.368	0.555		28.109					0.630	2.000	2.000	(2.967)	2.000	2.000	(4.000)									
Total		267.948	92.891	12.738	5.103	20.986	61.436	2.400	2.400	2.400	6.000	0.630	2.000	2.000	(2.967)	2.000	2.000	(4.000)									
													Rebate Pipes		120.000			120.000									
													Full Rate					6.000	0.630	2.000	2.000	(4.000)					
													Rebate					6.000	0.630	2.000	2.000	(4.000)					
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													Full Rate					6.000	0.630	2.000	2.000	(4.000)					

Branch Sewer at roshan gate to VIP hall 400mm-MB

9th R A BILL MEASUREMENTS
Branch Sewer of "C" at Roshan Gate to VIP Function Hall

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	400mm Dia										
	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										
	RG 8.15.00										
17.05.2016	CH0.00	584.815	581.890	581.690							
	CH25.05	586.690	581.935	581.735			3.13				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						4.96	4.040			
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			21.85	2.000	1.200	52.440	0.000	52.440	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.				21.85	1.600	0.300	10.488	0.000	10.488	
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			21.85	2.000	0.200	8.740	0.000	8.740	
	(c) For Lift 3.0m to 4.5m	1			21.85	1.600	1.200	41.952	0.000	41.952	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.				21.85	1.200	1.040	27.269	0.000	27.269	
	(a) For Lift 0 to 1.5m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.85	2.000	0.100	4.370	0.000	4.370	
		1			21.85	1.200	0.200	5.244	0.000	5.244	
	Item No. : 11 Transportation of earth Transportation charges including							10.433	0.000	10.433	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			23.75			23.750	0.000	23.750	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A										
	Deduction							145.259			
	pipe area	1									
	soling		0.785	21.85	0.550	0.550		5.19			
	PCC							0.00			
	Murum bedding							0.00			
	Total = B							5.24			
								10.43			
	RG 8.15.01							134.83	0.000	134.826	
18.05.2016	CH25.05	586.690	582.535	582.335							
	CH38.20	587.290	582.585	582.385			4.36				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						4.90	4.630			
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			11.55	2.400	1.200	33.264	52.440	85.704	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.				11.55	2.000	0.300	6.930	10.488	17.418	
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			11.55	2.400	0.200	5.544	8.740	14.284	
	(c) For Lift 3.0m to 4.5m	1			11.55	2.000	1.200	27.720	41.952	69.672	
					11.55	1.600	1.500	27.720	27.269	54.989	



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

Book No. :- 085
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Branch Sewer at roshan gate to VIP hall 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 4.5m to 6.0m Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.	1			11.55	1.200	0.130	1.802		0.000	1.802
	(a) For Lift 0 to 1.5m Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			11.55	2.400	0.100	2.772		4.370	7.142
	Item No. : 11 Transportation of earth Transportation charges including							5.515		10.433	15.947
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.5			12.500		23.750	36.250
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							105.752			
	Deduction										
	pipe area	1		0.785	11.55	0.550	0.550	2.74			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							2.77			
	Total = B							5.51			
					Net Qty = A - B			100.24		134.826	235.063
29.05.2016	CH38.20	587.290	582.585	582.385			4.90	4.865			
	CH53.20	587.270	582.645	582.445			4.83				
	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			15.00	2.400	1.200	43.200		85.704	128.904
	(b) For Lift 1.5m to 3.0m	1			15.00	2.000	0.300	9.000		17.418	26.418
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.00	2.400	0.200	7.200		14.284	21.484
	(b) For Lift 1.5m to 3.0m	1			15.00	2.000	1.200	36.000		69.672	105.672
	(c) For Lift 3.0m to 4.5m	1			15.00	1.600	1.500	36.000		54.989	90.989
	(d) For Lift 4.5m to 6.0m	1			15.00	1.200	0.365	6.570		1.802	8.372
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.00	2.400	0.100	3.600		7.142	10.742
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			15.00	1.200	0.200	3.600		8.016	11.616
	Item No. : 11 Transportation of earth Transportation charges including							7.162		15.947	23.109
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.00			15.000		36.250	51.250
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							141.570			
	Deduction										
	pipe area	1		0.785	15.00	0.550	0.550	3.56			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							3.60			
	Total = B							7.16			
					Net Qty = A - B			134.41		235.063	369.471
	CH53.20	587.270	582.645	582.445			4.83				



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 G.R.P. line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Branch Sewer at roshan gate to VIP hall 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
20.05.2016	CH76.35	588.495	582.735	582.535			5.96				
	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			21.55	2.400	1.200	62.064	128.904	190.968	
	(b) For Lift 1.5m to 3.0m	1			21.55	2.000	0.100	4.310	26.418	30.728	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.55	2.400	0.200	10.344	21.484	31.828	
	(b) For Lift 1.5m to 3.0m	1			21.55	2.000	1.400	60.340	105.672	166.012	
	(c) For Lift 3.0m to 4.5m	1			21.55	1.600	1.500	51.720	90.989	142.709	
	(d) For Lift 4.5m to 6.0m	1			21.55	1.200	0.893	23.093	8.372	31.465	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			21.55	2.400	0.100	5.172	10.742	15.914	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.55	1.200	0.200	5.172	11.616	16.788	
	Item No. : 11 Transportation of earth Transportation charges including							10.289	23.109	33.399	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.5			22.500	51.250	73.750	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							217.043			
	Deduction										
	pipe area	1		0.785	21.55	0.550	0.550	5.12			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							5.17			
	Total = B							10.29			
	Net Qty = A - B							206.75	369.471	576.225	
29.05.2016	RG 8.15.02										
	CH76.35	588.495	583.385	583.185			5.31				
	CH94.50	589.200	583.595	583.395			5.81	5.558			
	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			16.55	2.400	1.200	47.664	190.968	238.632	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.55	2.400	0.200	7.944	31.828	39.772	
	(b) For Lift 1.5m to 3.0m	1			16.55	2.000	1.500	49.650	166.012	215.662	
	(c) For Lift 3.0m to 4.5m	1			16.55	1.600	1.500	39.720	142.709	182.429	
	(d) For Lift 4.5m to 6.0m	1			16.55	1.200	1.058	21.012	31.465	52.477	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.55	2.400	0.100	3.972	15.914	19.886	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.55	1.200	0.200	3.972	16.788	20.760	
	Item No. : 11 Transportation of earth Transportation charges including							7.902	33.399	41.301	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.5			17.500	73.750	91.250	



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BOOK No. :- 001
Page No. :-

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Branch Sewer at roshan gate to VIP hall 400mm-MB

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 30 :- Refilling the excavated trenches										
	Total Excavation = A						169.962				
	Deduction										
	pipe area	1		0.785	16.55	0.550	0.550	3.93			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							3.97			
	Total = B							7.90			
				Net Qty = A - B				162.06		576.225	738.285
31.05.2016	CR94.50	589.200	583.595	583.395			5.81	5.838			
	CR115.15	509.505	583.835	583.635			5.87				
	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			19.05	2.400	1.200	54.864		238.632	293.496
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.05	2.400	0.200	9.144		39.772	48.916
	(b) For Lift 1.5m to 3.0m	1			19.05	2.000	1.500	57.150		215.662	272.812
	(c) For Lift 3.0m to 4.5m	1			19.05	1.600	1.500	45.720		182.429	228.149
	(d) For Lift 4.5m to 6.0m	1			19.05	1.200	1.338	30.587		52.477	83.063
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			19.05	2.400	0.100	4.572		19.886	24.458
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			19.05	1.200	0.200	4.572		20.760	25.332
	Item No. : 11 Transportation of earth Transportation charges including							9.096		41.301	50.396
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000		91.250	111.250
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation = A							202.037			
	Deduction										
	pipe area	1		0.785	19.05	0.550	0.550	4.52			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							4.57			
	Total = B							9.10			
				Net Qty = A - B				192.94		738.285	931.226
03.06.2016	BC 8.15.03										
	CR115.85	589.505	584.420	584.220			5.29	5.465			
	CR128.30	590.015	584.570	584.370			5.64				
	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			11.55	2.400	0.700	19.404		293.496	312.900
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.55	2.400	0.700	19.404		48.916	68.320
	(b) For Lift 1.5m to 3.0m	1			11.55	2.000	1.500	34.650		272.812	307.462
	(c) For Lift 3.0m to 4.5m	1			11.55	1.600	0.400	7.392		228.149	235.541



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Branch Sewer at roshan gate to VIP hall 400mm-MB

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. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.55	2.400	0.100	2.772			
	(c) For Lift 3.0m to 4.5m	1			11.55	1.600	1.100	20.328		24.458	
	(d) For Lift 4.5m to 6.0m	1			11.55	1.200	0.965	13.375		0.000	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.55	1.200	0.200	2.772		25.332	
	Item No. : 11 Transportation of earth Transportation charges including							5.515		50.396	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.5			12.500		111.250	
	Item No 30 :- Refilling the excavated trenches ...									123.750	
	Total Excavation = A							117.325			
	Deduction										
	pipe area	1		0.785	11.55	0.550	0.550	2.74			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.77			
	Total = B							5.51			
	Net Qty = A - B							111.81		931.226	
07.06.2016	CH128.30	590.015	584.570	584.370							
	CH143.30	590.425	584.750	584.550			5.64	5.760			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						5.88				
	(a) For Lift 0 to 1.5m	1			15.00	2.400	0.700	25.200		312.900	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									338.100	
	(a) For Lift 0 to 1.5m	1			15.00	2.400	0.700	25.200		68.320	
	(b) For Lift 1.5m to 3.0m	1			15.00	2.000	1.500	45.000		307.462	
	(c) For Lift 3.0m to 4.5m	1			15.00	1.600	0.600	14.400		235.541	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									249.941	
	(a) For Lift 0 to 1.5m	1			15.00	2.400	0.100	3.600		27.230	
	(c) For Lift 3.0m to 4.5m	1			15.00	1.600	0.900	21.600		20.328	
	(d) For Lift 4.5m to 6.0m	1			15.00	1.200	1.260	22.680		13.375	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.00	1.200	0.200	3.600		28.104	
	Item No. : 11 Transportation of earth Transportation charges including							7.162		55.911	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.00			15.000		123.750	
	Item No 30 :- Refilling the excavated trenches ...									138.750	
	Total Excavation = A							157.680			
	Deduction										
	pipe area	1		0.785	15.00	0.550	0.550	3.56			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.60			
	Total = B							7.16			
	Net Qty = A - B							150.52		1043.036	
										1193.554	



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Branch Sewer at roshan gate to VIP hall 400mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
01.06.2016	CR043.38	590.425	584.750	584.550			5.88				
	CR043.45	590.540	584.950	584.750			5.79				
	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			11.55	2.400	0.600	16.632		338.100	354.732
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.55	2.400	0.800	22.176		93.520	115.696
	(b) For Lift 1.5m to 3.0m	1			11.55	2.000	0.300	6.930		352.462	359.392
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.55	2.400	0.100	2.772		30.830	33.602
	(b) For Lift 1.5m to 3.0m	1			11.55	2.000	1.200	27.720		0.000	27.720
	(c) For Lift 3.0m to 4.5m	1			11.55	1.600	1.500	27.720		41.928	69.648
	(d) For Lift 4.5m to 6.0m	1			11.55	1.200	0.500	6.930		36.055	42.985
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(d) For Lift 4.5m to 6.0m	1			11.55	1.200	0.832	11.532		0.000	11.532
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			11.55	1.200	0.200	2.772		31.704	34.476
	Item No. : 11 Transportation of earth Transportation charges including							5.515		63.073	68.587
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			12.50			12.500		138.750	151.250
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							122.412			
	Deduction										
	pipe area	1		0.785	11.55	0.550	0.550	2.74			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.77			
	Total = B							5.51			
								Net Qty = A - B			
								116.90		1193.554	1310.451
01.06.2016	CR054.45	590.540	585.850	585.650			4.89				
	CR077.88	591.150	586.250	586.050			5.10	4.995			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			19.05	2.400	0.600	27.432		354.732	382.164
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.05	2.400	0.800	36.576		115.696	152.272
	(b) For Lift 1.5m to 3.0m	1			19.05	2.000	0.300	11.430		359.392	370.822
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			19.05	2.400	0.100	4.572		33.602	38.174
	(b) For Lift 1.5m to 3.0m	1			19.05	2.000	1.200	45.720		27.720	73.440
	(c) For Lift 3.0m to 4.5m	1			19.05	1.600	1.300	39.624		69.648	109.272
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										



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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Branch Sewer at roshan gate to VIP hall 400mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	CR218.49	592.110	587.470	587.270			4.84				
	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			16.55	2.400	0.700	27.804		418.368	446.172
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.55	2.400	0.700	27.804		188.476	216.280
	(b) For Lift 1.5m to 3.0m	1			16.55	2.000	0.200	6.620		383.752	390.372
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.55	2.400	0.100	3.972		43.346	47.318
	(b) For Lift 1.5m to 3.0m	1			16.55	2.000	1.300	43.030		125.160	168.190
	(c) For Lift 3.0m to 4.5m	1			16.55	1.600	0.600	15.888		160.992	176.880
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			16.55	1.600	0.900	23.832		6.096	29.928
	(d) For Lift 4.5m to 6.0m	1			16.55	1.200	0.223	4.429		41.079	45.507
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			16.55	1.200	0.200	3.972		44.220	48.192
	Item No. : 11 Transportation of earth Transportation charges including							7.902		87.972	95.874
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.50			17.500		193.750	211.250
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							153.379			
	Deduction										
	pipe area	1		0.785	16.55	0.550	0.550	3.93		0.00	
	soiling									0.00	
	PCC									3.97	
	Murrum bedding									7.90	
	Total = B							145.48		1686.013	1831.490
					Net Qty = A - B						
	CR218.49	592.110	587.470	587.270			4.84	5.105			
22.06.2016	CR218.49	592.720	587.550	587.350			5.37				
	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			20.00	2.400	0.800	38.400		446.172	484.572
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.00	2.400	0.600	28.800		216.280	245.080
	(b) For Lift 1.5m to 3.0m	1			20.00	2.000	0.200	8.000		390.372	398.372
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.00	2.400	0.100	4.800		47.318	52.118
	(b) For Lift 1.5m to 3.0m	1			20.00	2.000	1.300	52.000		168.190	220.190
	(c) For Lift 3.0m to 4.5m	1			20.00	1.600	0.200	6.400		176.880	183.280
	(d) For Lift 4.5m to 6.0m	1			20.00	1.200	0.605	14.520		42.985	57.505
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			20.00	1.600	1.300	41.600		29.928	71.528



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. 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 GRP/PI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Branch Sewer at roshan gate to VIP hall 400mm-MB

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			20.00	1.200	0.200	4.800		48.192	52.992	
	Item No. : 11 Transportation of earth Transportation charges including							9.549		95.874	105.424	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000		211.250	231.250	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							194.520				
	Deduction											
	pipe area	1		0.785	20.00	0.550	0.550	4.75				
	soling							0.00				
	PCC							0.00				
	Murum bedding							4.80				
	Total = B							9.55				
		Net Qty = A - B							184.97		1831.490	2016.461
30.06.2016	CH238.40	592.720	587.550	587.350			5.37	5.720				
	CH259.05	593.500	587.630	587.430			6.07					
	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			19.05	2.400	0.800	36.576		484.572	521.148	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			19.05	2.400	0.600	27.432		245.080	272.512	
	(b) For Lift 1.5m to 3.0m	1			19.05	2.000	0.100	3.810		398.372	402.182	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			19.05	2.400	0.100	4.572		52.118	56.690	
	(b) For Lift 1.5m to 3.0m	1			19.05	2.000	0.700	26.670		220.190	246.860	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.											
	(b) For Lift 1.5m to 3.0m	1			19.05	2.000	0.700	26.670		0.000	26.670	
	(c) For Lift 3.0m to 4.5m	1			19.05	1.600	1.500	45.720		71.528	117.248	
	(d) For Lift 4.5m to 6.0m	1			19.05	1.200	1.220	27.889		45.507	73.397	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.05	1.200	0.200	4.572		52.992	57.564	
	Item No. : 11 Transportation of earth Transportation charges including							9.096		105.424	114.519	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000		231.250	251.250	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							199.339				
	Deduction											
	pipe area	1		0.785	19.05	0.550	0.550	4.52				
	soling							0.00				
	PCC							0.00				
	Murum bedding							4.57				
	Total = B							9.10				
		Net Qty = A - B							190.24		2016.461	2206.704
	RG 8.15.08	Work Between CH 257.8 to CH 337.8 is in Progress = 80 Rmt										
17.06.2016	CH337.80	594.355	589.850	589.650			4.71	4.598				
	CH353.45	594.170	589.880	589.680			4.49					



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Branch Sewer at roshan gate to VIP hall 400mm-MB

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. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.05	2.000	0.900	27.090	652.110	679.200	
	(b) For Lift 1.5m to 3.0m	1			15.05	1.600	0.800	19.264	103.576	122.840	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.05	2.000	0.300	9.030	340.894	349.924	
	(b) For Lift 1.5m to 3.0m	1			15.05	1.600	0.700	16.856	530.364	547.220	
	(c) For Lift 3.0m to 4.5m	1			15.05	1.200	0.100	1.806	315.203	317.009	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.05	2.000	0.300	9.030	106.526	115.556	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			15.05	1.200	0.200	3.612	76.824	80.436	
	Item No. : 11 Transportation of earth Transportation charges including							7.186	152.836	160.022	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			16.00			16.000	336.250	352.250	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							83.076			
	Deduction										
	pipe area	1		0.785	15.05	0.550	0.550	3.57			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.61			
	Total = B							7.19			
	Net Qty = A - B							75.89	2711.022	2786.912	
	RG 8.15.11										
01.07.2016	CH442.70	593.220	590.380	590.180			3.04				
	CH458.35	593.115	590.436	590.236			2.88	2.960			
	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			14.05	1.600	0.900	20.232	679.200	699.432	
	(b) For Lift 1.5m to 3.0m	1			14.05	1.200	0.700	11.802	122.840	134.642	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.05	1.600	0.300	6.744	349.924	356.668	
	(b) For Lift 1.5m to 3.0m	1			14.05	1.200	0.760	12.814	547.220	560.034	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.05	1.600	0.300	6.744	115.556	122.300	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			14.05	1.200	0.200	3.372	80.436	83.808	
	Item No. : 11 Transportation of earth Transportation charges including							6.708	160.022	166.730	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.00			15.000	352.250	367.250	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							58.336			



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

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Branch Sewer at roshan gate to VIP hall 400mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No	L	B	D	Page		Quantity			
		GL	IL	EX.L							
	Deduction										
	pipe area	1		0.785	14.05	0.550	0.550	3.34			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.37			
	Total = B							6.71			
		Net Qty = A - B							51.63	2786.912	2838.539
01.07.2016	CH458.35	593.115	590.436	590.236			2.88	2.827			
	CH484.00	593.075	590.500	590.300			2.78				
	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			24.05	1.600	0.900	34.632	699.432	734.064	
	(b) For Lift 1.5m to 3.0m	1			24.05	1.200	0.700	20.202	134.642	154.844	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.05	1.600	0.300	11.544	356.668	368.212	
	(b) For Lift 1.5m to 3.0m	1			24.05	1.200	0.627	18.095	560.034	578.129	
	(c) For Lift 3.0m to 4.5m	1			24.05	1.200	0.000	0.000	317.009	317.009	
	(d) For Lift 4.5m to 6.0m	1			24.05	1.200	0.000	0.000	83.063	83.063	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			24.05	1.600	0.300	11.544	122.300	133.844	
	(b) For Lift 1.5m to 3.0m	1			24.05	1.200	0.000	0.000	246.860	246.860	
	(c) For Lift 3.0m to 4.5m	1			24.05	1.200	0.000	0.000	208.789	208.789	
	(d) For Lift 4.5m to 6.0m	1			24.05	1.200	0.000	0.000	59.157	59.157	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.05	1.200	0.000	0.000	26.670	26.670	
	(c) For Lift 3.0m to 4.5m	1			24.05	1.200	0.000	0.000	117.248	117.248	
	(d) For Lift 4.5m to 6.0m	1			24.05	1.200	0.000	0.000	73.397	73.397	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			24.05	1.200	0.200	5.772	83.808	89.580	
	Item No. : 11 Transportation of earth Transportation charges including							11.483	166.730	178.213	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000	367.250	392.250	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							96.017			
	Deduction										
	pipe area	1		0.785	24.05	0.550	0.550	5.71			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.77			
	Total = B							11.48			
		Net Qty = A - B							84.53	2838.539	2923.074
	Item No. : 35 Shifting of Existing Utilities Length considered up to 400 mm including all and as directed by Engineer In-Charge	1						0.38	0.38	0.38	



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

5th RA BILL MEASUREMENTS (Excavation of BBM Manhole)

Branch Sewer of "C" at Roshan Gate to VIP Function Hall

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										
	RG R.15.01										
	CH25.05	586.690	581.935	581.685			5.005				
	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	1.200	9.646	0.000	9.646	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.300	2.412	0.000	2.412	
	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	0.200	1.608	0.000	1.608	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.200	9.646	0.000	9.646	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	0.000	12.058	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.505	4.059	0.000	4.059	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804	0.000	0.804	
	Item No. : 11 Transportation of earth Transportation charges							16.272	0.000	16.272	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							40.232			
	Deduction										
	Brick work	1		0.785	2.280	2.280	2.755	11.242			
		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			
								16.272			
								23.960	0.000	23.960	
	RG R.15.02										
	CH76.35	588.495	582.735	582.485			6.010				
	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	1.200	9.646	9.646	19.292	
	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	0.200	1.608	1.608	3.215	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	9.646	21.704	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.500	12.058	12.058	24.115	
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	1.500	12.058	4.059	16.117	
	Extra Item- for lift 6.0m to 7.5m	1			0.785	10.240	0.010	0.080	0.000	0.080	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804	0.804	1.608	
	Item No. : 11 Transportation of earth Transportation charges							20.373	16.272	36.646	
	Item No. 30 :- Refilling the excavated trenches ...										



Branch Sewer at roshan gate to VIP hall 1.5m MH BBM Excvn

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Total Excavation=									
	Deduction						48.311			
	Brick work	1		0.785	2.280	2.280	3.760	15.344		
	PCC	1		0.785	1.540	1.540	2.000	3.723		
	Soling	1		0.785	2.580	2.580	0.250	1.306		
				0.785	2.580	2.580	0.000	0.000		
							20.373			
	RG 8.15.03						27.937		23.960	51.897
	CH115.15	589.505	583.835	583.585			5.920			
	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	0.700	5.627	19.292	24.919
	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	0.700	5.627	3.215	8.842
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	21.704	33.761
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.400	3.215	24.115	27.331
	Item No. 4 :- Excavation for foundation/pipe trenches in soft									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804	1.608	2.412
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.100	8.842	0.000	8.842
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	1.420	11.415	0.000	11.415
	Item No. : 11 Transportation of earth Transportation charges							20.006	36.646	56.652
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=							47.587		
	Deduction									
	Brick work	1		0.785	2.280	2.280	3.670	14.976		
	PCC	1		0.785	1.540	1.540	2.000	3.723		
	Soling	1		0.785	2.580	2.580	0.250	1.306		
				0.785	2.580	2.580	0.000	0.000		
							20.006			
	RG 8.15.04						27.581		51.897	79.479
	CH156.45	590.540	584.950	584.700			5.840			
	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	0.600	4.823	24.919	29.742
	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	8.842	15.273
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.300	2.412	33.761	36.173
	Item No. 4 :- Excavation for foundation/pipe trenches in soft									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804	2.412	3.215
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.200	9.646	0.000	9.646
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.300	10.450	8.842	19.292
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete									
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.200	1.608	0.000	1.608
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	1.340	10.771	0.000	10.771



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 Nakshatravadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Constructing, 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 GSP/DI pipe line from Golwadi SPS to Nakshatravadi (Kanchanwadi) STP and Ward No.98 to

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

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Branch Sewer at roshan gate to VIP hall 1.5m MH BBM Excvn

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Item No. - 11 Transportation of earth Transportation charges						19.680		56.652	76.331
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=						46.944			
	Deduction									
	Brick work	1		0.785	2.280	2.280	3.590	14.650		
		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		
							19.680			
	Net Qty = A - B						27.265	79.479	106.743	
	NC-8.15.05									
	CR200.25	591.810	586.700	586.450			5.360			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth with Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.700	5.627	29.742	35.369
	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	0.700	5.627	15.273	20.900
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.200	1.608	36.173	37.780
	Item No. 4 :- Excavation for foundation/pipe trenches in soft									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.100	0.804	3.215	4.019
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.300	10.450	9.646	20.096
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.600	4.823	19.292	24.115
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete									
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.900	7.235	1.608	8.842
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.860	6.913	10.771	17.684
	Item No. : 11 Transportation of earth Transportation charges							17.721	76.331	94.052
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=						43.086			
	Deduction									
	Brick work	1		0.785	2.280	2.280	3.110	12.691		
		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		
							17.721			
	Net Qty = A - B						25.365	106.743	132.108	
	NC-8.15.09									
	CR200.20	594.045	589.910	589.660			4.385			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth with Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.900	7.235	35.369	42.604
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.900	7.235	2.412	9.646
	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	20.900	23.311
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.600	4.823	37.780	42.604
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	1.385	11.133	27.331	38.464
	(d) For Lift 4.5m to 6.0m	1			0.785	10.240	0.000	0.000	16.117	16.117



and Zone Sahm A. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Vencure)
Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

		Details		Last Measurement
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1 of 1

Branch Sewer at roshan gate to VIP hall Dewatering RA9

up to te

9th R A BILL MEASURMENTS
Branch Sewer of "C" at Roshan Gate to VIP Function Hall

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
At Roshan Gate to VIP function Hall - 400mm Dia.							
1	23/06/2016	5	1	8:40	9:30	0:50	4:10:00
		5	1	12:00	13:30	1:30	7:30:00
		5	1	14:00	15:45	1:45	8:45:00
2	24/06/2016	5	1	9:00	11:30	2:30	12:30:00
		5	1	13:30	15:15	1:45	8:45:00
3	25/06/2016	5	1	8:40	9:50	1:10	5:50:00
		5	1	13:00	14:30	1:30	7:30:00
		5	1	15:15	16:30	1:15	6:15:00
4	27/06/2016	5	1	9:15	10:45	1:30	7:30:00
		5	1	12:05	13:50	1:45	8:45:00
		5	1	13:15	14:30	1:15	6:15:00
5	28/06/2016	5	1	8:30	9:30	1:00	5:00:00
		5	1	11:00	12:15	1:15	6:15:00
		5	1	14:00	15:45	1:45	8:45:00
		5	1	16:00	16:20	0:20	1:40:00
6	29/06/2016	5	1	8:40	9:50	1:10	5:50:00
		5	1	12:15	13:15	1:00	5:00:00
		5	1	14:30	15:45	1:15	6:15:00
7	30/06/2016	5	1	16:30	17:50	1:20	6:40:00
		5	1	9:00	10:45	1:45	8:45:00
		5	1	12:10	14:10	2:00	10:00:00
8	01/07/2016	5	1	16:15	17:05	0:50	4:10:00
		5	1	8:45	10:30	1:45	8:45:00
		5	1	11:30	12:50	1:20	6:40:00
9	02/07/2016	5	1	16:00	17:30	1:30	7:30:00
		5	1	9:30	11:30	2:00	10:00:00
		7.5	1	14:00	15:50	1:50	9:10:00
		7.5	1	11:15	12:45	1:30	11:15:00
10	04/07/2016	5	1	14:30	16:50	2:20	17:30:00
		5	1	8:40	11:40	3:00	15:00:00
		7.5	1	14:10	15:30	1:20	6:40:00
		7.5	1	8:45	12:45	4:00	30:00:00
		7.5	1	14:10	16:30	2:20	17:30:00
						53:20:00	292:05:00
							292.05



Branch Sewer at Roshan Gate to VIP Hall Quantity Made Abstract

900 R A BILL MEASUREMENTS

Branch Sewer - Roshan Gate to VIP Function Hall

SR NO	Description	MB/PG	ITEM 1			ITEM 2			ITEM 4			ITEM 6			
			0-1.5	1.5-3.0	3.0-4.5	0-1.5	1.5-3.0	3.0-4.5	0-1.5	1.5-3.0	3.0-4.5	4.5-6	1.5-3.0	3-4.5	4.5-6
1	For Pipe		734.064	154.844	317.009	368.212	578.129	317.009	133.844	246.860	208.789	59.157	26.670	117.248	73.397
2	For Manhole		42.604	9.646	38.464	23.311	42.604	38.464	6.431	20.096	24.115	11.415		8.842	17.664
	Total		776.668	164.490	355.473	391.523	620.732	355.473	140.275	266.956	232.904	70.572	26.670	126.090	91.061

CONTRACTOR


 Authorised Signatory

PMC

 Project Engineer

PROJECT MANAGER

 Project Manager

CLIENT

 DW Engineer

EX-ENGINEER

 Ex-Engineer

up to	
ate	
19/01/17	
0	

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

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

Authority No. AMC/Ward R&C/4HDSSMT/2014/184 Date 01.07.2014

Branch Sewer at roshan gate to VIP hall Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer - Roshan Gate to VIP Function Hall

SR NO	Description	MB/PG	ITEM 7	ITEM 10	ITEM 11	ITEM 17		ITEM 23	ITEM 23.1		ITEM 30	ITEM 35	EIRL 5
						400mm	2-5 m		Rebate				
1	For Pipe		89.580	292.050	178.213	392.250			6.00	0.800	2,923.07	0.380	0.080
2	For Manhole				107.794			6.00	0.800		153.615		
Total			89.580	292.050	286.007	392.250	6.00	6.00	0.800	0.800	3,076.69	0.380	0.080

CONTRACTOR
Khilari Infra Pvt.Ltd.
Mumbai
Authorized Signatory

PMC
Fortress Infrastructure Advisory Services Ltd
Division of Fortreas Financial Services
Mumbai

Project Engineer

Project Manager
Jr. Engineer

CLIENT
Dy. Engineer

Ex. Engineer

Total up to Date

10

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Seven A&B Construction, Erection, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zaha, Padegaon, CIDCO (Aerators), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zaha, Ward No.98 and CIDCO (Aerators), Providing, lowering, laying jointing and testing rising main GPP 10 pipe line from Gahkadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City

Book No. :-

Page No. :- 107

Roshan Gate, Champa Chowk 450mm-MB

9th R A BILL MEASUREMENTS
Sewer at Roshan Gate Champa Chowk

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	450mm Dia.										
	Width of Trench- For										
	Bottom Lift 1.00-1.50m- 0.40+0.15+0.15+0.5=1.25m										
	From Bottom Lift 1.50m-3.00m- 0.40+0.15+0.15+0.5+0.4=1.65m										
	From Bottom Lift 3.00m-4.50m- 0.40+0.15+0.15+0.5+0.4+0.4=2.05m										
	RC 8.3										
24/02/2018	CRSL 70	580.885	578.650	578.450			2.44	2.548			
	CR75.50	581.235	578.775	578.575			2.66				
	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			20.60	1.650	0.380	12.916		0.000	12.916
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	1.650	0.970	32.970		0.000	32.970
	(b) For Lift 1.5m to 3.0m	1			20.60	1.250	0.070	1.803		0.000	1.803
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	1.650	0.150	5.099		0.000	5.099
	(b) For Lift 1.5m to 3.0m	1			20.60	1.250	0.978	25.184		0.000	25.184
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.60	1.250	0.200	5.150		0.000	5.150
	Item No. : 11 Transportation of earth Transportation charges including loading							10.972		0.000	10.972
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			22.50			22.500		0.000	22.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							77.971			
	Deduction										
	pipe area	1		0.785	20.60	0.600	0.600	5.82			
	filling							0.00			
	PCC							0.00			
	Murrum bedding							5.15			
	Total = B							10.97			
	Net Qty = A - B							67.00		0.000	66.999
	RC 8.4										
24/02/2018	CR75.50	581.235	578.875	578.675			2.56	2.685			
	CR94.30	581.605	578.995	578.795			2.81				
	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			15.60	1.650	0.800	20.592		12.916	33.508
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.60	1.650	0.550	14.157		32.970	47.127
	(b) For Lift 1.5m to 3.0m	1			15.60	1.250	0.100	1.950		1.803	3.753
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.60	1.650	0.150	3.861		5.099	8.960
	(b) For Lift 1.5m to 3.0m	1			15.60	1.250	0.740	14.430		25.184	39.614
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 1.5m to 3.0m	1			15.60	1.250	0.345	6.728		0.000	6.728



Roshan Gate, Champa Chowk 450mm-MB

	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.60	1.250	0.200	3.900		5.150	9.050
	Item No. : 11 Transportation of earth Transportation charges including loading							8.309		10.972	19.280
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			17.50			17.500		22.500	40.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A										
	Deduction										
	pipe area									61.718	
	soling	1			0.785	15.60	0.600	0.600		4.41	
	PCC									0.00	
	Murum bedding									0.00	
	Total = B									3.90	
										8.31	
	RG 8.5									Net Qty = A - B	
	CH94.30									53.41	
24/02/2016	CH118.10		581.605	579.045	578.845						
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.		581.970	579.150	578.950			2.76		2.890	
	(a) For Lift 0 to 1.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.					20.60	1.650	0.600	20.394	33.508	53.902
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1				20.60	1.650	0.750	25.493	47.127	72.620
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.					20.60	1.250	0.250	6.438	3.753	10.190
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1				20.60	1.650	0.150	5.099	8.960	14.058
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.					20.60	1.250	0.850	21.888	39.614	61.501
	(b) For Lift 1.5m to 3.0m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				20.60	1.250	0.290	7.468	6.728	14.195
	Item No. : 11 Transportation of earth Transportation charges including loading					20.60	1.250	0.200	5.150	9.050	14.200
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1							10.972	19.280	30.252
	Item No 30 :- Refilling the excavated trenches ...					22.50			22.500	40.000	62.500
	Total Excavation = A										
	Deduction										
	pipe area									86.778	
	soling	1				0.785	20.60	0.600	0.600	5.82	
	PCC									0.00	
	Murum bedding									0.00	
	Total = B									5.15	
										10.97	
	RG 8.6									Net Qty = A - B	
	CH118.10									75.81	
24/02/2016	CH159.40		581.970	579.550	579.350						
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.		582.565	579.675	579.475			2.62		2.855	
	(a) For Lift 0 to 1.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.					38.10	1.650	0.600	37.719	53.902	91.621
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1				38.10	1.650	0.750	47.149	72.620	119.769
						38.10	1.250	0.100	4.763	10.190	14.953



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Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1				38.10	1.650	0.150	9.430	14.058	23.488
(b) For Lift 1.5m to 3.0m	1				38.10	1.250	0.960	45.720	61.501	107.221
Item No. 5 - Excavation for foundation/pipe trenches in Hard rock etc complete.										
(a) For Lift 1.5m to 3.0m	1				38.10	1.250	0.295	14.049	14.195	28.244
Item No. 7 - Filling in plinth and floors/ trenches etc complete.(bedding)										
	1				38.10	1.250	0.200	9.525	14.200	23.725
Item No. 11 Transportation of earth Transportation charges including loading										
								20.292	30.252	50.544
Item No.17 (b) - Lowering & Laying RCC NPS class pipe of 450mm Dia										
	1				40.00			40.000	62.500	102.500
Item No 30 - Refilling the excavated trenches ...										
Total Excavation = A								158.829		
Deduction										
pipe area	1			0.785	38.10	0.600	0.600	10.77		
soiling								0.00		
PCC								0.00		
Murum bedding								9.53		
Total = B								20.29		
Net Qty = A - B								138.54	196.214	334.752
RG 8.7										
02/03/2016	CR159.40	582.565	579.975	579.775			2.79	2.608		
	CR188.20	582.360	580.135	579.935			2.43			
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	1.650	0.600	25.344	91.621	116.965
Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.										
(a) For Lift 0 to 1.5m	1				25.60	1.650	0.500	21.120	119.769	140.889
Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.										
(a) For Lift 0 to 1.5m	1				25.60	1.650	0.400	16.896	23.488	40.384
(b) For Lift 1.5m to 3.0m	1				25.60	1.250	0.530	16.960	107.221	124.181
Item No. 5 - Excavation for foundation/pipe trenches in Hard rock etc complete.										
(a) For Lift 1.5m to 3.0m	1				25.60	1.250	0.578	18.496	28.244	46.740
Item No. 7 - Filling in plinth and floors/ trenches etc complete.(bedding)										
	1				25.60	1.250	0.200	6.400	23.725	30.125
Item No. 11 Transportation of earth Transportation charges including loading										
								13.635	50.544	64.178
Item No.17 (b) - Lowering & Laying RCC NPS class pipe of 450mm Dia										
	1				27.50			27.500	102.500	130.000
Item No 30 - Refilling the excavated trenches ...										
Total Excavation = A								98.816		
Deduction										
pipe area	1			0.785	25.60	0.600	0.600	7.23		
soiling								0.00		
PCC								0.00		
Murum bedding								6.40		
Total = B								13.63		
Net Qty = A - B								85.18	334.752	419.933
RG 8.8										
02/03/2016	CR188.20	582.360	580.235	580.035			2.33	2.165		
	CR204.50	582.065	580.260	580.060			2.01			
Item No. 1 - Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										



and Zone Salim. It. 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)

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	(a) For Lift 0 to 1.5m	1				23.10	1.650	0.500	19.058		116.965	136.023
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(a) For Lift 0 to 1.5m	1				23.10	1.650	0.550	20.963		140.889	161.852
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1				23.10	1.650	0.450	17.152		40.384	57.536
	(b) For Lift 1.5m to 3.0m	1				23.10	1.250	0.665	19.202		124.181	143.383
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				23.10	1.250	0.200	5.775		30.125	35.900
	Item No. : 11 Transportation of earth Transportation charges including loading								12.303		64.178	76.481
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1				25.00			25.000		130.000	155.000
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A								76.374			
	Deduction											
	pipe area											
	soling	1				0.785	23.10	0.600	0.600		6.53	
	PCC										0.00	
	Murrum bedding										0.00	
	Total = B								5.78			
									12.30			
									64.07		419.933	484.004
	RG 8.9											
02/03/2016	CH214.50	582.065	580.260	580.060					2.01			
	CH243.30	581.825	580.370	580.170					1.66		1.830	
	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										
	(b) For Lift 1.5m to 3.0m	1				25.60	1.650	1.150	48.576		136.023	184.599
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.					25.60	1.250	0.330	10.560		0.000	10.560
	(a) For Lift 0 to 1.5m	1										
	(b) For Lift 1.5m to 3.0m	1				25.60	1.650	0.200	8.448		161.852	170.300
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.					25.60	1.250	0.000	0.000		14.953	14.953
	(a) For Lift 0 to 1.5m	1										
	(b) For Lift 1.5m to 3.0m	1				25.60	1.650	0.150	6.336		57.536	63.872
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.					25.60	1.250	0.000	0.000		143.383	143.383
	(b) For Lift 1.5m to 3.0m	1										
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1				25.60	1.250	0.000	0.000		46.740	46.740
	Item No. : 11 Transportation of earth Transportation charges including loading								6.400		35.900	42.300
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1							13.635		76.481	90.116
	Item No 30 :- Refilling the excavated trenches ...					27.50			27.500		155.000	182.500
	Total Excavation = A											
	Deduction								73.920			
	pipe area											
	soling	1				0.785	25.60	0.600	0.600		7.23	
	PCC										0.00	
	Murrum bedding										0.00	
	Total = B								6.40			
									13.63			
									60.29		484.004	544.290



Name of work: Supply of Sewerage Collection system for Zone I to VI and Zone VII. Construction, Erection, Testing and Commissioning of Sewerage Treatment Plant based on anaerobic 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 CRP 18 pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aarangaabad City.

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Roshan Gate, Champa Chowk 400mm-MB

9th RA BILL MEASUREMENTS
Sewer at Roshan Gate Champa 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										
	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										
	RG 8.10										
	CH243.30	581.825	580.470	580.270			1.56	1.555			
	CH277.10	581.955	580.600	580.400			1.56				
	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	1.200	1.150	42.228	184.599	226.827	
	(b) For Lift 1.5m to 3.0m	1			30.60	1.200	0.055	2.020	10.560	12.580	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.200	0.200	7.344	170.300	177.644	
	Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.200	0.150	5.508	63.872	69.380	
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			30.60	1.200	0.200	7.344	42.300	49.644	
	Item No. : 11 Transportation of earth Transportation charges including							14.610	90.116	104.726	
	Item No.17 (a) - Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500	0.000	32.500	
	Item No 30 - Refilling the excavated trenches -										
	Total Excavation = A							57.100			
	Deduction										
	pipe area	1		0.785	30.60	0.550	0.550	7.27			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							7.34			
	Total = B							14.61			
	Net Qty = A - B							42.49	544.290	586.779	
	RG 8.11										
	CH277.10	581.955	580.600	580.400			1.56	1.515			
	CH318.90	582.005	580.730	580.530			1.48				
	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	1.200	1.150	42.228	226.827	269.055	
	(b) For Lift 1.5m to 3.0m	1			30.60	1.200	0.015	0.551	12.580	13.130	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.200	0.200	7.344	177.644	184.988	
	Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.200	0.150	5.508	69.380	74.888	
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			30.60	1.200	0.200	7.344	49.644	56.980	



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Roshan Gate, Champa Chowk 400mm-MB

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. : 11 Transportation of earth Transportation charges including							14.610		104.726	119.337
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500		32.500	65.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							55.631			
	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			
								41.02		586.779	627.800
	RG 8.12										
	CH310.90	582.005	580.730	580.530							
	CH352.20	582.430	580.865	580.665			1.48	1.620			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.						1.76				
	(a) For Lift 0 to 1.5m	1			38.10	1.600	1.350	82.296		184.988	267.284
	(b) For Lift 1.5m to 3.0m	1			38.10	1.200	0.120	5.486		14.953	20.439
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			38.10	1.600	0.150	9.144		74.888	84.032
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.10	1.200	0.200	9.144		56.988	66.132
	Item No. : 11 Transportation of earth Transportation charges including							18.191		119.337	137.528
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.00			40.000		65.000	105.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							96.926			
	Deduction										
	pipe area	1		0.785	38.10	0.550	0.550	9.05			
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.14			
	Total = B							18.19			
								78.74		627.800	706.535
	RG 8.13										
07/03/2016	CH352.20	582.430	580.865	580.665			1.76	2.133			
	CH396.00	583.230	580.930	580.730			2.50				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			40.60	1.500	1.150	74.704		269.055	343.759
	(b) For Lift 1.5m to 3.0m	1			40.60	1.200	0.633	30.840		13.130	43.970
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			40.60	1.600	0.200	12.992		267.284	280.276
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			40.60	1.600	0.150	9.744		84.032	93.776
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			40.60	1.200	0.200	9.744		66.132	75.876



Name of work:- Development of 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 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 G.P.M pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Anandnagar City.

Rohan Gate, Champa Chowk 400mm-MB

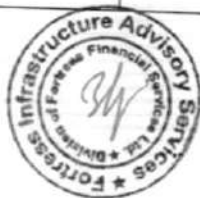
Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EXL							
	Item No. 10 Transportation of earth Transportation charges including						19.385		137.528	156.913	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			42.50		42.500		105.000	147.500	
	Item No.30 :- Refilling the excavated trenches										
	Total Excavation = A						128.280				
	Deduction										
	pipe area	1		0.785	40.60	0.550	0.550	9.64			
	soiling							0.00			
	PCC							0.00			
	Warman bedding							9.74			
	Total = B						19.38				
	Net Qty = A - B						108.89		706.535	815.429	
	NC 8.14										
07/03/2015	CR295.00	583.230	581.330	581.130			2.10				
	CR424.80	584.815	581.390	581.190			3.63				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard warman etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.600	1.350	66.096	280.276	346.372	
	(b) For Lift 1.5m to 3.0m	1			30.60	1.200	0.150	5.508	20.439	25.947	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.600	0.150	7.344	93.776	101.120	
	(b) For Lift 1.5m to 3.0m	1			30.60	1.200	1.213	44.541	143.383	187.924	
	Item No. 7 :- Filling in plinth and basins/ trenches etc complete (bedding)	1			30.60	1.200	0.200	7.344	75.876	83.220	
	Item No. : 11 Transportation of earth Transportation charges including						14.610		156.913	171.523	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500	147.500	180.000	
	Item No.30 :- Refilling the excavated trenches										
	Total Excavation = A						123.489				
	Deduction										
	pipe area	1		0.785	30.60	0.550	0.550	7.27			
	soiling							0.00			
	PCC							0.00			
	Warman bedding							7.34			
	Total = B						14.61				
	Net Qty = A - B						108.88		815.429	924.308	
	NC 8.15										
07/03/2015	CR424.80	584.815	581.790	581.590			3.23				
	CR444.00	584.985	581.980	581.780			3.21				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard warman etc complete.										
	(a) For Lift 0 to 1.5m	1			13.10	2.000	1.350	35.370	346.372	381.742	
	(b) For Lift 1.5m to 3.0m	1			13.10	1.600	0.650	13.624	25.947	39.571	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.10	2.000	0.150	3.930	101.120	105.050	
	(b) For Lift 1.5m to 3.0m	1			13.10	1.600	0.850	17.816	187.924	205.740	
	(c) For Lift 3.0m to 4.5m	1			13.10	1.200	0.215	3.380	0.000	3.380	
	Item No. 7 :- Filling in plinth and basins/ trenches etc complete (bedding)	1			13.10	1.200	0.200	3.144	83.220	86.364	
	Item No. : 11 Transportation of earth Transportation charges including						6.255		171.523	177.778	



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Roshan Gate, Champa Chowk 400mm-MB

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			15.00			15.000		180.000	195.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							74.120			
	Deduction										
	pipe area	1		0.785	13.10	0.550	0.550	3.11			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.14			
	Total = B							6.25			
								67.87			
	RG 8.16 to RG 8.16A									924.308	992.173
	CH0.00	584.985	581.980	581.780							
07/03/2016	CH19.80	584.810	582.075	581.875			3.21	3.070			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.60	1.600	1.350	35.856		381.742	417.598
	(b) For Lift 1.5m to 3.0m	1			16.60	1.200	0.750	14.940		39.571	54.511
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.60	1.600	0.150	3.984		105.050	109.034
	(b) For Lift 1.5m to 3.0m	1			16.60	1.200	0.750	14.940		205.740	220.680
	(c) For Lift 3.0m to 4.5m	1			16.60	1.200	0.070	1.394		3.380	4.774
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.60	1.200	0.200	3.984		86.364	90.348
	Item No. : 11 Transportation of earth Transportation charges including							7.926		177.778	185.704
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			18.50			18.500		195.000	213.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							71.114			
	Deduction										
	pipe area	1		0.785	16.60	0.550	0.550	3.94			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.98			
	Total = B							7.93			
								63.19		992.173	1055.362
	RG 8.16										
	CH446.10	584.985	581.980	581.780			3.21	3.178			
18/03/2016	CH474.90	585.205	582.255	582.055			3.15				
	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	0.980	40.141		343.759	383.900
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.60	1.600	0.370	15.155		417.598	432.753
	(b) For Lift 1.5m to 3.0m	1			25.60	1.200	1.500	46.080		54.511	100.591
	(c) For Lift 3.0m to 4.5m	1			25.60	1.200	0.178	5.468		0.000	5.468
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			25.60	1.600	0.150	6.144		109.034	115.178
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.60	1.200	0.200	6.144		90.348	96.492



and Zone Salim Ali Centre for the Excavation, Lowering, 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 GSP Di pipe line from Golwadi STP to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aarambhad City.

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Roshan Gate, Champs Chowk 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Item No. - 10 Transportation of earth Transportation charges including							12.223		185.704	197.927
	Item No.17 (a) - Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			27.50			27.500		213.500	241.000
	Item No 30 - Refilling the excavated trenches										
	Total Excavation = A							112.988			
	Deductions										
	pipe area	1		0.785	25.60	0.550	0.550	6.08			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							6.14			
	Total = B							12.22			
				Net Qty = A - B				100.77		1055.362	1156.127
	RG 8.17										
18/02/2016	CR474.90	585.205	582.255	582.055			3.15	3.015			
	CR508.70	585.235	582.555	582.355			2.88				
	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	1.600	1.150	56.304		383.900	440.204
	(b) For Lift 1.5m to 3.0m	1			30.60	1.200	0.650	23.868		43.970	67.838
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.600	0.200	9.792		432.753	442.545
	(b) For Lift 1.5m to 3.0m	1			30.60	1.200	0.850	31.212		100.591	131.803
	(c) For Lift 3.0m to 4.5m	1			30.60	1.200	0.015	0.551		5.468	6.019
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.60	1.600	0.150	7.344		115.178	122.522
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			30.60	1.200	0.200	7.344		96.492	103.836
	Item No. : 11 Transportation of earth Transportation charges including							14.610		197.927	212.537
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			32.50			32.500		241.000	273.500
	Item No 30 - Refilling the excavated trenches										
	Total Excavation = A							129.071			
	Deductions										
	pipe area	1		0.785	30.60	0.550	0.550	7.27			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							7.34			
	Total = B							14.61			
				Net Qty = A - B				114.46		1156.127	1270.588
	RG 8.18										
18/02/2016	CR508.70	585.235	582.555	582.355			2.88	2.993			
	CR508.90	585.595	582.690	582.490			3.11				
	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			24.10	1.600	1.150	44.344		440.204	484.548
	(b) For Lift 1.5m to 3.0m	1			24.10	1.200	0.150	4.338		67.838	72.176
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.10	1.600	0.200	7.712		442.545	450.257
	(b) For Lift 1.5m to 3.0m	1			24.10	1.200	1.343	38.840		131.803	170.642



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Roshan Gate, Champa Chowk 400mm-MB

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. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			24.10	1.600	0.150	5.784		122.522	128.306
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			24.10	1.200	0.200	5.784		103.836	109.620
	Item No. : 11 Transportation of earth Transportation charges including							11.507		212.537	224.044
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			26.00			26.000		273.500	299.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							101.018			
	Deduction										
	pipe area	1		0.785	24.10	0.550	0.550	5.72			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.78			
	Total = B							11.51			
	Net Qty = A - B							89.51		1270.588	1360.098
	RG 8.19										
05/04/2016	CH536.00	585.595	582.690	582.490							
	CH557.30	585.520	582.815	582.615			3.11	3.005			
							2.90				
	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	1.150	33.304		484.548	517.852
	(b) For Lift 1.5m to 3.0m	1			18.10	1.200	0.650	14.118		72.176	86.294
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.10	1.600	0.200	5.792		450.257	456.049
	(b) For Lift 1.5m to 3.0m	1			18.10	1.200	0.850	18.462		170.642	189.104
	(c) For Lift 3.0m to 4.5m	1			18.10	1.200	0.005	0.109		6.019	6.128
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.10	1.600	0.150	4.344		128.306	132.650
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			18.10	1.200	0.200	4.344		109.620	113.964
	Item No. : 11 Transportation of earth Transportation charges including							8.642		224.044	232.686
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000		299.500	319.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							76.129			
	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							67.49		1360.098	1427.585
	RG 8.20										
05/04/2016	CH557.30	585.520	582.815	582.615							
	CH576.10	585.605	582.880	582.680			2.90	2.915			
							2.93				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										



Name of work:- Devision of Underground Sewerage Collection system for Zone 1 to 4 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 STP to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. 117
Page No. :-

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Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			15.60	1.600	1.150	28.704	517.852	546.556	
	(b) For Lift 1.5m to 3.0m	1			15.60	1.200	0.150	2.808	86.294	89.102	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			15.60	1.600	0.200	4.992	456.049	461.041	
	(b) For Lift 1.5m to 3.0m	1			15.60	1.200	1.265	23.681	189.104	212.785	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			15.60	1.600	0.150	3.744	132.650	136.394	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			15.60	1.200	0.200	3.744	113.964	117.708	
	Item No. : 11 Transportation of earth Transportation charges including							7.448	232.686	240.135	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.50			17.500	319.500	337.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							63.929			
	Deduction										
	pipe area	1		0.785	15.60	0.550	0.550	3.70			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							3.74			
	Total = B							7.45			
					Net Qty = A - B			56.48	1427.585	1484.065	
	RG 8.21										
28/04/2015	CH576.10	585.605	582.980	582.780			2.83	2.815			
	CH593.40	585.715	583.110	582.910			2.81				
	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			14.10	1.600	1.150	25.944	546.556	572.500	
	(b) For Lift 1.5m to 3.0m	1			14.10	1.200	0.650	10.998	89.102	100.100	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			14.10	1.600	0.200	4.512	461.041	465.553	
	(b) For Lift 1.5m to 3.0m	1			14.10	1.200	0.665	11.252	212.785	224.037	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.10	1.600	0.150	3.384	136.394	139.778	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			14.10	1.200	0.200	3.384	117.708	121.092	
	Item No. : 11 Transportation of earth Transportation charges including							6.732	240.135	246.867	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			16.00			16.000	337.000	353.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							56.090			
	Deduction										
	pipe area	1		0.785	14.10	0.550	0.550	3.35			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							3.38			
	Total = B							6.73			
					Net Qty = A - B			49.36	1484.065	1533.423	
	RG 8.22										



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. 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 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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Page No. :-

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Roshan Gate, Champa Chowk 400mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
29/04/2016	CH593.40	585.715	583.210	583.010			2.71	2.782			
	CH617.20	585.990	583.331	583.131			2.86				
	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	1.600	1.150	37.904		572.500	610.404
	(b) For Lift 1.5m to 3.0m	1			20.60	1.200	1.282	31.691		100.100	131.791
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	1.600	0.200	6.592		465.553	472.145
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	1.600	0.150	4.944		139.778	144.722
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.60	1.200	0.200	4.944		121.092	126.036
	Item No. : 11 Transportation of earth Transportation charges including							9.836		246.867	256.703
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.50			22.500		353.000	375.500
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							81.131			
	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			71.30		1533.423	1604.718
29/04/2016	CH617.20	585.990	583.331	583.131			2.86	2.895			
	CH641.00	586.105	583.375	583.175			2.93				
	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	1.600	1.150	37.904		610.404	648.308
	(b) For Lift 1.5m to 3.0m	1			20.60	1.200	1.395	34.484		131.791	166.276
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	1.600	0.200	6.592		472.145	478.737
	(b) For Lift 1.5m to 3.0m	1			20.60	1.200	0.000	0.000		224.037	224.037
	(c) For Lift 3.0m to 4.5m	1			20.60	1.200	0.000	0.000		6.128	6.128
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			20.60	1.600	0.150	4.944		144.722	149.666
	(b) For Lift 1.5m to 3.0m	1			20.60	1.200	0.000	0.000		220.680	220.680
	(c) For Lift 3.0m to 4.5m	1			20.60	1.200	0.000	0.000		4.774	4.774
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			20.60	1.200	0.000	0.000		46.740	46.740
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.60	1.200	0.200	4.944		126.036	130.980
	Item No. : 11 Transportation of earth Transportation charges including							9.836		256.703	266.538



9th RA BILL MEASUREMENTS
Sewer at Roshan Gate Champa Chowk

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	DWC - 315mm Dia										
	Width of Trench - For Lift 0 to 1.50m-0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	RG 8.2 to RG 8.2.1										
	CH0.00	580.885	579.925	579.825			1.060				
	CH4.55	581.085	580.025	579.925			1.160	1.11			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			1.95	0.815	0.760	1.208		648.308	649.515
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.95	0.815	0.200	0.318		478.737	479.055
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.95	0.815	0.150	0.238		149.666	149.904
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			1.95	0.815	0.100	0.159		130.980	131.139
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated										
	(a) For Lift 0 to 1.5m	1						0.311		266.538	266.849
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia										
	(a) For Lift 0 to 1.5m	1			3.50			3.500		0.000	3.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.764			
	Deduction of 315mm dia pipe										
	pipe area	1.00			0.785	1.95	0.315	0.315		0.15	
	soling									0.00	
	PCC									0.00	
	Murrum bedding									0.16	
										0.31	
										1.45	
	RG 8.5 to old Manhole									1678.807	1680.260
	CH0.00	581.605	580.615	580.515			1.090				
	CH6.60	581.805	580.715	580.615			1.190	1.14			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			5.00	0.815	0.600	2.445		649.515	651.960
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.00	0.815	0.390	1.589		479.055	480.644
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			5.00	0.815	0.150	0.611		149.904	150.515
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			5.00	0.815	0.100	0.408		131.139	131.546



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Roshan Gate, Champa Chowk 300mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.95	0.815	0.100	0.159		131.828	131.987
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.311		268.196	268.507
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			3.50			3.500		14.500	18.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction of 315mm dia pipe							1.605			
	pipe area										
	soling	1.00		0.785	1.95	0.315	0.315	0.15			
	PCC							0.00			
	Murrum bedding							0.00			
								0.16			
								0.31			
	Net Qty = A - B							1.29		1686.792	1688.086
	RG 8.10 to RG 8.10.2										
	CH0.00										
	CH6.55	581.825	580.945	580.845				0.980			
		581.995	581.095	580.995				1.000			
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.95	0.815	0.840	2.704		483.417	486.121
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.95	0.815	0.150	0.483		151.175	151.658
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.95	0.815	0.100	0.322		131.987	132.308
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.630		268.507	269.136
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			5.50			5.500		18.000	23.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction of 315mm dia pipe							3.187			
	pipe area										
	soling	1.00		0.785	3.95	0.315	0.315	0.31			
	PCC							0.00			
	Murrum bedding							0.00			
								0.32			
								0.63			
	Net Qty = A - B							2.56		1688.086	1690.644
	RG 8.10 to RG 8.10.3										
	CH0.00										
	CH23.90	581.825	581.070	580.970				0.855			
		582.020	581.170	581.070				0.950		0.90	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.45	0.815	0.750	13.111		486.121	499.232
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			21.45	0.815	0.150	2.622		151.658	154.280

