

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

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Sadeef Colony CHAMBER Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Brick work	1.00		0.785	1.16	1.16	0.84	0.89			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.36			
		Net Qty = A - B						2.06		14.80	16.86
	SC1.3										
	CH24.90	581.338	580.528	580.278			1.060				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.710	2.229		19.185	21.415
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		5.024	5.652
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		3.768	4.239
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.333		11.120	12.453
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.328			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.81	0.86			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.33			
		Net Qty = A - B						2.00		16.86	18.85
	SC1.4										
	CH33.30	581.588	580.728	580.478			1.110				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.760	2.386		21.415	23.801
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		5.652	6.280
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		4.239	4.710
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.386		12.453	13.839
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.485			
	Deduction										



**Measurement Book**

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

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Sadef Colony CHAMBER Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Brick work	1.00		0.785	1.16	1.16	0.86	0.91			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.39			
		Net Qty = A - B						2.10		18.85	20.95





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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Sadef Colony CHAMBER

9th R A BILL MEASUREMENTS CHEMBER DETAILS SADEF COLONY

9th R A BILL MEASUREMENTS CHEMBER							
SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr		Total Rebate Qty for 30 cm
		No			For per 30 cm		
		GL	IL	DEPTH			
A	Extra Item. No.02: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete						
1	SADEF COLONY						
1	SC1	581.208	580.278	0.930	1.5	-0.570	-21.400
2	SC2	581.373	580.433	0.940	1.5	-0.560	
3	SC3	581.463	580.623	0.840	1.5	-0.660	
4	SC4	581.593	580.713	0.880	1.5	-0.620	
5	SC5	581.783	580.883	0.900	1.5	-0.600	
6	SC6	582.033	581.283	0.750	1.5	-0.750	
7	SC1.1	581.288	580.458	0.830	1.5	-0.670	
8	SC1.2	581.328	580.488	0.840	1.5	-0.660	
9	SC1.3	581.338	580.528	0.810	1.5	-0.690	
10	SC1.4	581.588	580.728	0.860	1.5	-0.640	
	Total					-6.420	-21.400



Branch Of Sewer SADEF COLONY

SR NO	Description	MB/PG	ITEM 1	ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 13	ITEM 30	EIRL 2	EIRL 2.a	EIRL 9.4
			0-1.5	0-1.5	0-1.5			160mm		Full Rate	Rebate	250mm
1	For Pipe		31.070	9.035	6.777	8.672	12.375	7.700	34.507			57.200
2	For Manhole		23.801	6.280	4.710		13.839		20.952	10.000	(21.400)	
	Total		54.872	15.315	11.487	8.672	26.214	7.700	55.459	10.000	(21.400)	57.200

CONTRACTOR



Authorized Signatory



Project Engineer



Project Manager

PMC



Mr. Engineer

By Engineer

Dr. Engineer

CLIENT

CLIENT
Ex. Engineer

Ex. Engineer

[illegible]

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SR NO	Description	MB/P/G	ITEM 1	ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 12	ITEM 13	ITEM 30	EIRL 2	EIRL 2.a	EIRL 9.3	EIRL 9.4	
			0-1.5	0-1.5	0-1.5				160mm		160mm	Full Rate	Rebate	250mm	250mm
1	For Pipe		31.070	9.035	6.777	8.672	12.375	7.700	7.700	34.507			57.200	57.200	
2	For Manhole		23.801	6.280	4.710		13.839			20.952	10.000	(21.400)			
	Total		54.872	15.315	11.487	8.672	26.214	7.700	7.700	55.459	10.000	-21.400	57.200	57.200	

Ex Engineer


Jr. Engineer

Dy. Engineer

~~Ex~~ Engineer

[illegible]

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

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Near Katkat Gate Nala-Measurment

9th R A BILL MEASURMENTS DWC PIPE NEAR KATKAT GATE NALLA

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	DWC - 315 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m-										
	0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m-										
	0.315+0.5+0.4+0.4=1.615m										
	K 1 to K 2										
	CH0.00	578.088	576.068	575.968			2.120	1.770			
	CH5.50	578.318	576.998	576.898			1.420				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.840	1.215	1.250	4.313		0.000	4.313
	(b) For Lift 1.5m to 3.0m	1			2.840	0.815	0.270	0.625		0.000	0.625
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.840	1.215	0.150	0.518		0.000	0.518
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.840	1.215	0.100	0.345		0.000	0.345
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.840	0.815	0.100	0.313		0.000	0.313
	Item No. : 11 Transportation of earth Transportation charges							0.612		0.000	0.612
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			4.340			4.340		0.000	4.340
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.801			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	3.840	0.315	0.315	0.30			
	soling							0.00			
	POC							0.00			
	Murrum bedding							0.31			
								0.61			
	Net Qty = A - B							5.19		0.00	5.19



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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Near Katkat Gate Nala-Measurment

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	K 2 to K 3										
	CH5.50	578.318	576.998	576.898			1.420	1.440			
	CH16.00	578.558	577.198	577.098			1.460				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.470	0.815	1.190	8.215		4.313	12.528
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.470	0.815	0.150	1.035		0.518	1.553
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.470	0.815	0.100	0.690		0.345	1.035
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.970	0.815	0.100	0.731		0.313	1.044
	Item No. : 11 Transportation of earth Transportation charges							1.430		0.612	2.042
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			9.470			9.470		4.340	13.810
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.940			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	8.970	0.315	0.315	0.70			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.73			
								1.43			
		Net Qty = A - B						8.51		5.19	13.70
	K 2 to K 2.1										
	CH0.00	578.318	576.998	576.898			1.420	1.420			
	CH5.20	578.320	577.000	576.900			1.420				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.650	0.815	1.170	3.480		12.528	16.008
	(b) For Lift 1.5m to 3.0m	1			3.650	0.815	0.000	0.000		0.625	0.625
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.650	0.815	0.150	0.446		1.553	1.999



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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Near Katkat Gate Nala-Measurment

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.650	0.815	0.100	0.297		1.035	1.333
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.950	0.815	0.100	0.322		1.044	1.366
	Item No. : 11 Transportation of earth Transportation charges							0.630		2.042	2.671
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			4.450			4.450		13.810	18.260
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.224			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	3.950	0.315	0.315	0.31			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.32			
								0.63			
		Net Qty = A - B						3.59		13.70	17.29
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.017			0			0.017



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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Near Katkat Gate Nala-CHEMBER Measurment

9th R A BILL MEASUREMENTS DWC CHEMBER NEAR KATKAT GATE NALLA

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	DWC - 315mm Dia										
	Excavation of Chember - For 1.20 dia chamber (upto 2.0m depth)- 1.20+0.50+0.5+0.5=2.66m										
	Area for chember upto 2m=2.66*2.66=7.075m										
	K1										
	CH0.00	578.088	576.068	575.818			2.270				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.250	6.942		0.000	6.942
	(b) For Lift 1.5 to 3.0m	1			0.785	7.075	0.770	4.276		0.000	4.276
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.150	0.833		0.000	0.833
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555		0.000	0.555
	Item No. : 11 Transportation of earth Transportation charges							3.475		0.000	3.475
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							12.607			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	2.020	2.72			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murrum bedding							0.00			
	Total (B)							3.48			
	Net Qty = A - B							9.13		0.00	9.13
	K2										
	CH5.50	578.318	576.998	576.748			1.570				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	1.250	6.942		6.942	13.885
	(b) For Lift 1.5 to 3.0m	1			0.785	7.075	0.070	0.389		4.276	4.665
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.150	0.833		0.833	1.666



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Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.100	0.555		0.555	1.111
	Item No. : 11 Transportation of earth Transportation charges							2.532		3.475	6.007
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							8.720			
	Deduction										
	Brick work	1.00		0.785	1.31	1.31	1.32	1.78			
	soling							0.00			
	PCC	1.00		0.785	1.96	1.96	0.25	0.75			
	Murum bedding							0.00			
	Total (B)							2.53			
		Net Qty = A - B						6.19		9.13	15.32



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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Near Katkat Gate Nala-MH WORK

9th R A BILL MEASUREMENTS OF CHEMBER NEAR KATKAT GATE NALA

Date	Particulars of work	DETAILS				Content of arrears	Last measurement		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
A	Extra Item No:4 (Square MH 0.30x0.45)								
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.								
	(a) Long Wall	2	0.950	0.230	1.210	0.529		0.000	0.529
	(b) Short Wall	2	0.300	0.230	1.210	0.167		0.000	0.167
						0.696		0.000	0.696
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.								
	(a) Long Wall	2	0.450	0.000	1.210	1.089		0.000	1.089
	(b) Short Wall	2	0.300	0.000	1.210	0.726		0.000	0.726
						1.815		0.000	1.815
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.								
	(a) Long Wall	2	0.950	0.000	1.210	2.299		0.000	2.299
	(b) Short Wall	2	0.760	0.000	1.210	1.839		0.000	1.839
						4.138		0.000	4.138
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.								
	(a) Long Wall Internal	2	0.450	0.000	1.210	1.089		0.000	1.089
	(b) Short Wall Internal	2	0.300	0.000	1.210	0.726		0.000	0.726
	(c) Long Wall External	2	0.950	0.000	1.210	2.299		0.000	2.299
	(d) Short Wall External	2	0.760	0.000	1.210	1.839		0.000	1.839
						5.953		0.000	5.953
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for	1	0.96	1.11	0.15	0.160		0.000	0.160





Measurement Book

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

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Near Katkat Gate Nala-CHEMBER

9th R A BILL MEASUREMENTS CHEMBER DETAILS NEAR KATKAT GATE NALLA

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total
		No			Depth of 2.0		
		GL	IL	DEPTH	For per 50 cm		
							for 50 cm
B	Item No. 21: Providing and constructing on sewer.BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2.0 M etc., complete						
	NEAR KATKAT GATE NALLA						
1	K1	578.088	576.068	2.020	2	0.020	-1.320
2	K2	578.318	576.998	1.320	2	-0.680	
	Total					-0.660	-1.320



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22/8/16

Venture)

Measurement Book

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

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Baijipura-2-DWC MB

9th R A BILL MEASUREMENTS DWC PIPE " BAIJIPURA-02"

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	DWC - 315 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m-										
	0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m-										
	0.315+0.5+0.4+0.4=1.615m										
	IB11 TO IB12	Part-I						Indira Nagar to Baijipura Site CH 108.30(IB11)			
	CH108.30	585.170	584.370	584.270			0.900	1.005			
	CH120.30	585.580	584.570	584.470			1.110				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.845	6.887		0.000	6.887
	(b) For Lift 1.5m to 3.0m	1			10.000	0.815	0.000	0.000		0.000	0.000
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.060	0.489		0.000	0.489
	(b) For Lift 1.5m to 3.0m	1			10.000	0.815	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			10.000	0.815	0.100	0.815		0.000	0.815
	(b) For Lift 1.5m to 3.0m	1			10.000	0.815	0.000	0.000		0.000	0.000
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.600	0.815	0.100	0.864		0.000	0.864
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.690		0.000	1.690
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.100			11.100		0.000	11.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							8.191			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	10.600	0.315	0.315	0.83			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.86			
								1.69			
	Net Qty = A - B							6.50		0.000	6.501



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

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Baijipura-2-DWC MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	IL	EX.L	L	B	D		Page	Quantity	
	IB12 TO IB13										
	CH120.30	585.580	584.570	584.470			1.110	1.110			
	CH132.30	585.700	584.690	584.590			1.110				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.950	7.743		6.887	14.629
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.060	0.489		0.489	0.978
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.100	0.815		0.815	1.630
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.600	0.815	0.100	0.864		0.864	1.728
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.690		1.690	3.379
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.100			11.100		11.100	22.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.047			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	10.600	0.315	0.315	0.83			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.86			
								1.69			
	Net Qty = A - B							7.36		6.501	13.858
	IB13 TO IB14										
	CH132.30	585.700	584.690	584.590			1.110	1.115			
	CH144.30	585.760	584.740	584.640			1.120				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.955	7.783		14.629	22.413
	Item No. 2 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.060	0.489		0.978	1.467
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.815	0.100	0.815		1.630	2.445
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			10.600	0.815	0.100	0.864		1.728	2.592



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

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Baijipura-2-DWC MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.690		3.379	5.069
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.100			11.100		22.200	33.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.087			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	10.600	0.315	0.315	0.83			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.86			
								1.69			
		Net Qty = A - B						7.40		13.858	21.256
	IB14 TO IB15										
	CH144.30	585.760	584.740	584.640			1.120	1.205			
	CH156.80	586.010	584.820	584.720			1.290				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.815	1.045	8.943		22.413	31.355
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.815	0.060	0.513		1.467	1.980
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.815	0.100	0.856		2.445	3.301
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.100	0.815	0.100	0.905		2.592	3.496
	Item No. : 11 Transportation of earth Transportation charges							1.769		5.069	6.838
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			11.600			11.600		33.300	44.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.312			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.100	0.315	0.315	0.86			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.90			
								1.77			
		Net Qty = A - B						8.54		21.256	29.798



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

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Balijipura-2-DWC MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	SW PIPE - 300 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.300+0.02+0.02+0.5=0.84m										
	For Lift 1.5 to 3.00m- 0.300+0.02+0.02+0.5+0.4=1.24 m										
	For Lift 3.0 to 4.5m- 0.300+0.5+0.02+0.02+0.4+0.4=1.64m										
	IB15 TO IB16										
	CH156.80	586.010	584.820	584.720			1.290	1.220			
	CH170.80	586.040	584.990	584.890			1.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.000	0.840	1.060	10.685		31.355	42.040
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.000	0.840	0.060	0.605		1.980	2.585
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			12.000	0.840	0.100	1.008		3.301	4.309
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.600	0.840	0.100	1.058		3.496	4.555
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.071		6.838	8.909
	Extra Item No 9.2(e) Lowering, Laying & jointing of S.W. pipe of 300mm Dia	1			13.100			13.100		0.000	13.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.298			
	Deduction										
	pipe area	1.00		0.785	12.600	0.320	0.320	1.01			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.06			
								2.07			
	Net Qty = A - B							10.23		29.798	40.025



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 CIDCO for Aurangabad City.

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Balijipura-2-DWC MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	IB16 TO IB17										
	CH170.80	586.040	584.990	584.890			1.150	1.180			
	CH184.30	586.270	585.160	585.060			1.210				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.500	0.840	1.020	9.853		42.040	51.893
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.500	0.840	0.060	0.580		2.585	3.165
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.500	0.840	0.100	0.966		4.309	5.275
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.100	0.840	0.100	1.016		4.555	5.571
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.989		8.909	10.898
	Extra Item No 9.2(e).Lowering,Laying & Jointing of S.W. pipe of 300mm Dia	1			12.600			12.600		13.100	25.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.399			
	Deduction										
	pipe area	1.00		0.785	12.100	0.320	0.320	0.97			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							1.02			
								1.99			
								9.41		40.025	49.435
	IB17 TO IB18										
	CH184.30	586.270	585.160	585.060			1.210	1.160			
	CH196.40	586.310	585.300	585.200			1.110				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			10.100	0.840	1.000	8.484		51.893	60.377
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.100	0.840	0.060	0.509		3.165	3.674
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.100	0.840	0.100	0.848		5.275	6.123



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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Baijipura-2-DWC MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.700	0.840	0.100	0.899		5.571	6.470
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.759		10.898	12.657
	Extra Item No 9.2(e).Lowering.Laying & Jointing of S.W. pipe of 300mm Dia	1			11.200			11.200		25.700	36.900
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.841			
	Deduction										
	pipe area	1.00		0.785	10.700	0.320	0.320	0.86			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.90			
								1.76			
	Net Qty = A - B							8.08		49.435	57.517
	IB18 TO IB19										
	CH196.40	586.310	585.300	585.200			1.110	1.155			
	CH208.40	586.620	585.520	585.420			1.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.840	0.995	8.358		60.377	68.735
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.840	0.060	0.504		3.674	4.178
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.000	0.840	0.100	0.840		6.123	6.963
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.600	0.840	0.100	0.890		6.470	7.360
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.742		12.657	14.400
	Extra Item No 9.2(e).Lowering.Laying & Jointing of S.W. pipe of 300mm Dia	1			11.100			11.100		36.900	48.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.702			
	Deduction										
	pipe area	1.00		0.785	10.600	0.320	0.320	0.85			



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

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Baijipura-2-DWC MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.89			
								1.74			
		Net Qty = A - B						7.96		57.517	65.477
	IB19 TO IB20										
	CH208.40	586.620	585.520	585.420			1.200	1.225			
	CH220.90	586.850	585.700	585.600			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.840	1.065	9.393		68.735	78.128
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.840	0.060	0.529		4.178	4.707
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.500	0.840	0.100	0.882		6.963	7.845
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.100	0.840	0.100	0.932		7.360	8.293
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.825		14.400	16.224
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia									44.900	44.900
	Extra Item No 9.2(e).Lowering,Laying & Jointing of S.W. pipe of 300mm Dia	1			11.600			11.600		48.000	59.600
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.805			
	Deduction										
	pipe area	1.00		0.785	11.100	0.320	0.320	0.89			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.93			
								1.82			
		Net Qty = A - B						8.98		65.477	74.456
	Extra Item no9.1(c)200mm Supply (SW Pipe)				6.000	0.600					3.600
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.116					0.000	0.116



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim AE. 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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Baijipura-2-DWC 200mm

9th R A BILL MEASUREMENTS DWC PIPE " BAIJIPURA-02"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	DWC - 200mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m- 0.200+0.5+0.4=1.100m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.500m										
	BA10 TO BA11	Part-II									
	CH0.00	595.560	595.030	594.930			0.630	0.740			
	CH9.00	595.890	595.140	595.040			0.850				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.340	0.700	0.560	2.485		78.128	80.614
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.340	0.700	0.080	0.355		4.707	5.062
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.340	0.700	0.100	0.444		7.845	8.289
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.340	0.700	0.100	0.514		8.293	8.807
	Item No. : 11 Transportation of earth Transportation charges							0.744		16.224	16.969
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			7.840			7.840		0.000	7.840
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.284			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	7.340	0.200	0.200	0.23			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.51			
								0.74			
		Net Qty = A - B						2.54		74.456	76.996
	BA11 TO BA12										
	CH9.00	595.890	595.140	595.040			0.850	0.950			
	CH23.00	596.140	595.190	595.090			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			11.340	0.700	0.770	6.112		80.614	86.726



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

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Baijipura-2-DWC 200mm

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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.340	0.700	0.080	0.635		5.062	5.697
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.340	0.700	0.100	0.794		8.289	9.083
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.340	0.700	0.100	0.864		8.807	9.670
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.251		16.969	18.220
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			12.840			12.840		7.840	20.680
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.541			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	12.340	0.200	0.200	0.39			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.86			
								1.25			
	Net Qty = A - B							6.29		76.996	83.286
	BAI2 TO BAI3										
	CH23.00	596.140	595.190	595.090			1.050	1.035			
	CH26.70	596.140	595.220	595.120			1.020				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.040	1.100	0.855	0.978		86.726	87.704
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.040	1.100	0.080	0.092		5.697	5.789
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.040	1.100	0.100	0.114		9.083	9.197
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			2.040	0.700	0.100	0.143		9.670	9.813
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.207		18.220	18.427
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			2.540			2.540		20.680	23.220



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

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Baijipura-2-DWC 200mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches --										
	Total Excavation:-							1.184			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	2.040	0.200	0.200	0.06			
	soling							0.00			
	PCC							0.00			
	Murram bedding							0.14			
								0.21			
		Net Qty = A - B						0.98		83.286	84.263
	SW PIPE - 200 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	$0.200+0.02+0.02+0.5=0.74m$										
	For Lift 1.5 to 3.00m-										
	$0.200+0.02+0.02+0.5+0.4=1.14m$										
	For Lift 3.0 to 4.5m-										
	$0.200+0.5+0.02+0.02+0.4+0.4=1.54m$										
	BAI3 TO BAI4										
	CH26.70	596.140	595.220	595.120			1.020	0.970			
	CH33.55	596.130	595.310	595.210			0.920				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			4.190	0.740	0.790	2.449		87.704	90.154
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			4.190	0.740	0.080	0.248		5.789	6.037
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.190	0.740	0.100	0.310		9.197	9.507
	Item No. 7 :- Filling in plinth and floors/trenches etc complete (bedding)	1			5.190	0.740	0.100	0.384		9.813	10.197
	Item No. 11 Transportation of earth Transportation charges including loading & unloading							0.581		18.427	19.008
	Extra Item No 9.2(C) :- Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.690			5.690		0.000	5.690
	Item No. 30 :- Refilling the excavated trenches --										
	Total Excavation:-							3.008			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	5.190	0.220	0.220	0.20			



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

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Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.38			
								0.58			
		Net Qty = A - B						2.43		84.263	86.690
	BAI4 TO BAI5										
	CH33.55	596.130	595.310	595.210			0.920	0.825			
	CH40.10	596.120	595.490	595.390			0.730				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.890	0.740	0.645	1.857		90.154	92.010
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.890	0.740	0.080	0.230		6.037	6.267
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.890	0.740	0.100	0.288		9.507	9.795
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.890	0.740	0.100	0.362		10.197	10.559
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.548		19.008	19.556
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia									23.220	23.220
	Extra Item No 9.2(c) :- Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			5.390			5.390		5.690	11.080
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.375			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	4.890	0.220	0.220	0.19			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.36			
								0.55			
		Net Qty = A - B						1.83		86.690	88.520
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.034					0.116	0.116



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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9th RA BILL MEASUREMENTS OF CHEMBERS " BAIJIPURA-02 "

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9-0.5-0.3-0.3-2m										
	Area for chamber up to 1.5m=2 X 2=4m										
	IB11										
	CH108.30	585.170	584.370	584.120			1.050				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.890	2.795		0.000	2.795
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000		0.000	0.000
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		0.000	0.188
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		0.000	0.314
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.323		0.000	1.323
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.297			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	0.800	0.845			
	soling							0.000			
	POC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.323			
	Net Qty = A - B							1.974		0.000	1.974
	IB12										
	CH120.30	585.580	584.570	584.320			1.260				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.100	3.454		2.795	6.249
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		0.188	0.377
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		0.314	0.628



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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Baijipura-2-0.9m Dia MH

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.544		1.323	2.867
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.956			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.010	1.067			
	soling							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.544			
		Net Qty = A - B						2.412		1.974	4.386
	IB13										
	CH132.30	585.700	584.690	584.440			1.260				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.100	3.454		6.249	9.703
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		0.377	0.565
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		0.628	0.942
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.544		2.867	4.412
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.956			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.010	1.067			
	soling							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.544			
		Net Qty = A - B						2.412		4.386	6.798
	IB14										
	CH144.30	585.760	584.740	584.490			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			0.785	4.000	1.110	3.485		9.703	13.188
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		0.565	0.754



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 Ahmednagar City.

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Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		0.942	1.256
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading							1.555		4.412	5.967
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.988			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.020	1.077			
	slab							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.555			
		Net Qty = A - B						2.433		6.798	9.231
	BRS										
	CH 156.80	586.010	584.820	584.570			1.440				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth with Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.280	4.019		13.188	17.207
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		0.754	0.942
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		1.256	1.570
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading							1.735		5.967	7.701
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.522			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.190	1.257			
	slab							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murum bedding							0.000			
	Total (B)							1.735			
		Net Qty = A - B						2.787		9.231	12.018
	BRS										
	CH 171.20	586.040	584.990	584.740			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth with Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.140	3.580		17.207	20.787



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

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Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		0.942	1.130
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		1.570	1.884
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.587		7.701	9.288
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.082			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.050	1.109			
	soling							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.587			
		Net Qty = A - B						2.495		12.018	14.513
	IB17										
	CH184.30	586.270	585.160	584.910			1.360				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.200	3.768		20.787	24.555
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		1.130	1.319
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		1.884	2.198
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.650		9.288	10.938
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.270			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.110	1.172			
	soling							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.650			
		Net Qty = A - B						2.620		14.513	17.134
	IB18										
	CH185.40	586.310	585.300	585.050			1.260				



and Zone Salim AH. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GSP 18 pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Ahmednagar City.

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Baijipura-2-0.9m Dia MH

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.100	3.454		24.555	28.009
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		1.319	1.507
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		2.198	2.512
	Item No. :- 11 Transportation of earth Transportation charges including loading & unloading							1.544		10.938	12.482
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.956			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.010	1.067			
	soling							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.544			
		Net Qty = A - B						2.412		17.134	19.546
	CH208.40	586.620	585.520	585.270			1.350				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.190	3.737		28.009	31.745
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		1.507	1.696
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		2.512	2.826
	Item No. :- 11 Transportation of earth Transportation charges including loading & unloading							1.640		12.482	14.122
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.239			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.100	1.162			
	soling							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.640			



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

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Bajjipura-2-0.9m Dia MH

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						2.599		19.546	
	IB20										
	CH220.90	586.850	585.700	585.450			1.400				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.240	3.894		31.745	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.060	0.188		1.696	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		2.826	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.692		14.122	15.814
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.396			
	Deduction										
	Brick work	1.000		0.785	1.160	1.160	1.150	1.215			
	soling							0.000			
	PCC	1.000		0.785	1.560	1.560	0.250	0.478			
	Murrum bedding							0.000			
	Total (B)							1.692			
		Net Qty = A - B						2.704		22.145	24.849
	Excavation of Chamber - For 0.9m x 0.6m Size chamber up to 1.5 mt depth -0.9+0.5+0.3+0.3=2m										
	Bredth for chember up to 1.5m=0.6+0.5+0.3+0.3=1.7m										
	IB11.1										
	CH0.00	585.170	584.930	584.680			0.490				
	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	0.330	1.122		35.639	36.761
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.060	0.204		1.884	2.088
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.100	0.340		3.140	3.480
	Item No. : 11 Transportation of earth Transportation charges							0.89		15.814	16.704

