

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

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Sewer F-800- MB

9th RA BILL MEASUREMENTS

SEWER "F"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	H	EX.L							
	Branch of F Sewer-800mm Dia										
	Width of trench- For Bottom Lift 0.00-1.50m- 0.8+0.19+0.19+0.5=1.68m										
	From Bottom Lift 1.50-3.00m- 0.8+0.19+0.19+0.5+0.4=2.08m										
	From Bottom Lift 3.00-4.50m- 0.8+0.19+0.19+0.5+0.4+0.4 = 2.48m										
	From Bottom Lift 4.50-6.0m- 0.8+0.19+0.19+0.5+0.4+0.4+0.4 = 2.88m										
03/02/2016	CH1206.40	563.210	559.360	559.065			4.145	4.595			
	CH1239.85	564.200	559.450	559.153			5.045				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			31.85	2.480	1.500	118.482	0.000	118.482	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			31.85	2.080	0.900	59.623	0.000	59.623	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			31.85	2.080	0.600	39.749	0.000	39.749	
	(c) For Lift 3.0m to 4.5m	1			31.85	1.680	0.000	0.000	0.000	0.000	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			31.85	1.680	1.500	80.262	0.000	80.262	
	(d) For Lift 4.5m to 6.0m	1			31.85	1.680	0.095	5.083	0.000	5.083	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			31.85	1.680	0.200	10.702	0.000	10.702	
	Item No 17 (I) :- Lowering & Laying RCC NPS class pipe of 800mm Dia	1			32.50			32.500	0.000	32.500	
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation = A =							303.199			
	Deduction										
	pipe area	1.00		0.785	31.85	0.990	0.990	24.50			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							10.70			
	Total = B							35.21			
								Net Qty = A - B			
	F 22							267.99	0.000	267.99	
04/02/2016	CH1239.85	564.200	559.850	559.555			4.645	5.065			
	CH1268.30	565.100	559.910	559.615			5.485				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			26.85	2.880	1.050	81.194	118.482	199.676	
	(b) For Lift 1.5m to 3.0m	1			26.85	2.480	1.500	99.882	0.000	99.882	



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

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	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1		26.85	2.880	0.150	11.599		0.000	11.599
	(c) For Lift 3.0m to 4.5m	1		26.85	2.080	1.500	83.772		0.000	83.772
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1		26.85	2.880	0.300	23.198		0.000	23.198
	(d) For Lift 4.5m to 6.0m	1		26.85	1.680	0.565	25.486		0.000	25.486
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1		26.85	1.680	0.200	9.022		10.702	19.723
	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1		27.5			27.500		32.500	60.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavations = A						325.132			
	Deduction									
	pipe area	1.00		0.785	26.85	0.990	0.990	20.66		
	soiling							0.00		
	PCC							0.00		
	Murrum bedding							9.02		
	Total = B						29.68			
							Net Qty = A - B		295.45	267.993
05/02/2016	CH1268.30	565.100	559.910	559.615			3.485	5.050		
	CH1290.25	564.320	560.000	559.705			4.615			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc.									
	(a) For Lift 0 to 1.5m	1		20.35	2.880	1.500	87.912		199.676	287.588
	(b) For Lift 1.5m to 3.0m	1		20.35	2.480	1.500	75.702		99.882	175.584
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(c) For Lift 3.0m to 4.5m	1		20.35	2.080	1.500	63.492		83.772	147.264
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(d) For Lift 4.5m to 6.0m	1		20.35	1.680	0.550	18.803		25.486	44.289
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1		20.35	1.680	0.200	6.838		19.723	26.561
	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1		21.0			21.000		60.000	81.000
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation = A						245.909			
	Deduction									
	pipe area	1.00		0.785	20.35	0.990	0.990	15.66		
	soiling							0.00		
	PCC							0.00		
	Murrum bedding							6.84		
	Total = B						22.49			
							Net Qty = A - B		223.41	563.446



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

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		Net Qty = A - B					117.86	1003.740	1121.69	
	F 24									
07/02/2016	CH1339.65	563.920	560.570	560.275		3.645				
	CH1368.10	564.110	560.610	560.315		3.795	3.720			
	Item No. 1 -> Excavation for foundation/pipe trenches in all types of soil & soft murum etc									
	(a) For Lift 0 to 1.5m	1		26.85	2.480	1.500	99.882	459.452	559.334	
	Item No. 2 -> Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(b) For Lift 1.5m to 3.0m	1		26.85	2.080	0.900	50.263	141.994	192.258	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete									
	(b) For Lift 1.5m to 3.0m	1		26.85	2.000	0.600	33.509	101.522	135.030	
	(c) For Lift 3.0m to 4.5m	1		26.85	1.680	0.720	32.478	69.799	102.277	
	Item No. 7 -> Filling in plinth and floors/ trenches etc	1		26.85	1.600	0.200	9.022	42.084	51.106	
	Item No 17 (F) -> Lowering & Laying RCC NP3 class pipe of 800mm Dia	1		27.5			27.500	128.500	156.000	
	Item No 30 -> Refilling the excavated trenches ...									
	Total Excavation* A=						216.132			
	Deduction									
	pipe area	1.00		0.785	26.85	0.990	0.990	20.56		
	soiling							0.00		
	PCC							0.00		
	Murum bedding							9.02		
	Total = B						29.68			
							Net Qty = A - B	186.45	1121.599	1308.05
07/02/2016	CH1368.10	564.110	560.610	560.315		3.795				
	CH1393.10	564.250	560.650	560.355		3.895	3.845			
	Item No. 1 -> Excavation for foundation/pipe trenches in all types of soil & soft murum etc									
	(a) For Lift 0 to 1.5m	1		25.00	2.400	1.500	93.000	559.334	652.334	
	Item No. 2 -> Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(b) For Lift 1.5m to 3.0m	1		25.00	2.080	1.250	65.000	192.258	257.258	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete									
	(b) For Lift 1.5m to 3.0m	1		25.00	2.080	0.250	13.000	135.030	148.030	
	(c) For Lift 3.0m to 4.5m	1		25.00	1.680	0.845	35.490	102.277	137.767	
	Item No. 7 -> Filling in plinth and floors/ trenches etc complete (bedding)	1		25.00	1.680	0.200	8.400	51.106	59.506	
	Item No 17 (F) -> Lowering & Laying RCC NP3 class pipe of 800mm Dia	1		25.0			25.000	156.000	191.000	
	Item No 30 -> Refilling the excavated trenches ...									
	Total Excavation* A=						206.490			
	Deduction									
	pipe area	1.00		0.785	25.00	0.990	0.990	19.23		
	soiling							0.00		
	PCC							0.00		
	Murum bedding							8.40		
	Total = B						27.63			



	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			25.00	1.680	0.200	8.400		80.909	89.309
	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			25.0			25.000		246.000	271.000
	Item No 30 :- Refilling the excavated trenches ...								221.484		
	Total Excavation = A =										
	Deduction								19.23		
	pipe area	1.00			0.785	25.00	0.990	0.990	0.00		
	soling								0.00		
	PCC								8.40		
	Murrum bedding								27.63		
	Total = B								193.85	1960.232	2154.092
					Net Qty = A - B						
18/02/2016	CH1485.00		565.340	561.290	560.995			4.345	4.385		
	CH1510.00		565.450	561.320	561.025			4.425			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.480	0.300	18.600		67.394	85.994
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			25.00	2.480	1.200	74.400		914.904	989.304
	Item No. 2 :- Excavation for foundation/pipe trenches in hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	2.080	1.200	62.400		477.478	539.878
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	2.080	0.300	15.600		204.554	220.154
	(c) For Lift 3.0m to 4.5m	1			25.00	1.680	0.790	33.180		224.787	257.967
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			25.00	1.680	0.595	24.990		151.756	176.746
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			25.00	1.680	0.200	8.400		89.309	97.709
	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			25.0			25.000		271.000	296.000
	Item No 30 :- Refilling the excavated trenches ...								229.170		
	Total Excavation = A =										
	Deduction								19.23		
	pipe area	1.00			0.785	25.00	0.990	0.990	0.00		
	soling								0.00		
	PCC								8.40		
	Murrum bedding								27.63		
	Total = B								201.54	2154.082	2355.618
					Net Qty = A - B						
22/07/2016	CH1510.00		565.450	561.320	561.025			4.425	4.460		
	CH1525.00		565.560	561.360	561.065			4.495			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.480	0.300	18.600		65.994	104.594



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Name of work:- Development of Underground Sewerage collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zaita, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zaita, 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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	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			25.00	2.480	1.200	74.400		989.304	1063.704
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	2.080	1.300	67.600		539.878	607.478
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	2.080	0.200	10.400		220.154	230.554
	(c) For Lift 3.0m to 4.5m	1			25.00	1.680	1.000	42.000		257.967	299.967
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			25.00	1.680	0.460	19.320		176.746	196.066
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)										
		1			25.00	1.680	0.200	8.400		97.799	106.109
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia										
		1			25.0			25.000		296.000	321.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A*							232.320			
	Deduction										
	pipe area	1.00			0.785	25.00	0.990	0.990	19.23		
	soiling								0.00		
	PCC								0.00		
	Murrum bedding								8.40		
	Total = B								27.63		
	Net Qty = A - B							204.69		2355.618	2560.30
27/02/2016	CH1535.00	565.560	561.360	561.065				4.495		4.485	
	CH1548.45	565.350	561.370	561.075				4.275			
	Item No. 3 :- Excavation for foundation/pipe trenches in shah etc complete.										
	(a) For Lift 0 to 1.5m	1			11.85	2.490	0.200	5.878		104.594	110.472
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			11.85	2.490	1.300	38.204		1063.704	1101.909
	(b) For Lift 1.5m to 3.0m	1			11.85	2.080	0.600	14.789		175.584	190.373
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			11.85	2.080	0.700	17.254		607.478	624.731
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			11.85	2.080	0.200	4.930		230.554	235.484
	(c) For Lift 3.0m to 4.5m	1			11.85	1.680	1.000	19.908		299.967	319.875
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			11.85	1.680	0.385	7.665		196.066	203.731
	Item No. 7 :- Filling in plinth and floors/ trenches etc										
		1			11.85	1.680	0.200	3.962		106.109	110.090



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	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			12.5			12.500	321.000	333.500
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation* A*							108.627		
	Deduction									
	pipe area	1.00			0.785	11.85	0.990	0.990	9.12	
	soling								0.00	
	PCC								0.00	
	Murram bedding								3.98	
	Total = B							13.10		
								Net Qty = A - B	95.53	2560.303
	F 26									
03/03/2016	CH1548.45	565.350	561.970	561.675			3.675	3.840		
	CH1574.40	565.720	562.010	561.715			4.005			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.									
	(a) For Lift 0 to 1.5m	1			24.35	2.480	0.200	12.078	110.472	122.549
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murram etc									
	(a) For Lift 0 to 1.5m	1			24.35	2.480	1.300	78.504	1101.999	1180.413
	(b) For Lift 1.5m to 3.0m	1			24.35	2.000	0.700	35.454	190.373	225.896
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.									
	(b) For Lift 1.5m to 3.0m	1			24.35	2.080	0.600	30.389	624.731	655.120
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(b) For Lift 1.5m to 3.0m	1			24.35	2.080	0.200	10.130	235.484	245.614
	(c) For Lift 3.0m to 4.5m	1			24.35	1.680	0.600	24.545	319.075	344.419
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.									
	(c) For Lift 3.0m to 4.5m	1			24.35	1.680	0.240	9.818	203.731	213.549
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
		1			24.35	1.680	0.200	8.182	110.090	118.272
	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			25.0			25.000	333.500	358.500
	Item No 30 :- Refilling the excavated trenches ...									
	Total Excavation* A*							200.917		
	Deduction									
	pipe area	1.00			0.785	24.35	0.990	0.990	18.73	
	soling								0.00	
	PCC								0.00	
	Murram bedding								8.18	
	Total = B							26.92		
								Net Qty = A - B	174.00	2655.831
	F 26									
05/03/2016	CH1574.40	565.720	562.010	561.715			4.005	4.100		
	CH1595.40	565.950	562.050	561.755			4.195			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.									
	(a) For Lift 0 to 1.5m	1			25.00	2.480	0.200	12.400	122.549	134.949



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	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc									
	(a) For Lift 0 to 1.5m	1		25.00	2.480	1.300	80.600		1180.413	1261.018
	(b) For Lift 1.5m to 3.0m	1		25.00	2.080	0.800	41.600		225.826	267.426
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(a) For Lift 0 to 1.5m	1		25.00	2.400	0.000	0.000		11.599	11.599
	(b) For Lift 1.5m to 3.0m	1		25.00	2.000	0.500	26.000		655.120	681.120
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(b) For Lift 1.5m to 3.0m	1		25.00	2.000	0.200	10.400		245.614	256.024
	(c) For Lift 3.0m to 4.5m	1		25.00	1.680	0.800	33.600		344.419	378.019
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.									
	(c) For Lift 3.0m to 4.5m	1		25.00	1.680	0.300	12.600		213.549	226.149
	Item No. 7 :- Filling in piloth and floors/ trenches etc complete.(bedding)	1		25.00	1.680	0.200	8.400		118.272	126.672
	Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1		25.0			25.000		358.500	383.500
	Item No 30 :- Refilling the excavated trenches --									
	Total Excavation= A=						217.200			
	Deduction									
	pipe area	1.00		0.785	25.00	0.990	19.23			
	soiling						0.00			
	PCC						0.00			
	Murum bedding						8.40			
	Total = B						27.63			
	Net Qty = A - B						189.57		2829.832	3019.397
08/03/2016	CH1599.40		565.950	562.050	561.755		4.195		4.230	
	CH1627.85		566.070	562.100	561.805		4.265			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.									
	(a) For Lift 0 to 1.5m	1		26.85	2.480	0.150	9.988		134.949	144.937
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc									
	(a) For Lift 0 to 1.5m	1		26.85	2.480	1.350	89.894		1261.013	1350.907
	(b) For Lift 1.5m to 3.0m	1		26.85	2.080	0.900	50.263		267.426	317.690
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(b) For Lift 1.5m to 3.0m	1		26.85	2.080	0.600	33.509		681.120	714.629
	(c) For Lift 3.0m to 4.5m	1		26.85	1.680	0.200	9.022		147.264	156.286
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(c) For Lift 3.0m to 4.5m	1		26.85	1.680	0.700	31.576		378.019	409.595
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.									
	(c) For Lift 3.0m to 4.5m	1		26.85	1.680	0.330	14.886		226.149	241.035



2

	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			26.85	1.680	0.200	9.022		126.672	135.694	
	Item No 17 (f) :- Lowering & Laying RCC NPS class pipe of 800mm Dia	1			27.50			27.500		383.500	411.000	
	Item No 30 :- Refilling the excavated trenches ...							239.137				
	Total Excavation= A=											
	Deduction											
	pipe area	1.00			0.705	26.85	0.990	0.990	20.66			
	soiling								0.00			
	PCC								0.00			
	Murum bedding								5.02			
	Total = B							29.68				
					Net Qty = A - B				209.46		3019.397	3228.858
	F 27											
10/03/2016	CH1627.85	566.070	562.600	562.305				3.765	1815			
	CH1648.00	566.190	562.620	562.325				3.865				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											
	(a) For Lift 0 to 1.5m	1			19.35	2.480	0.200	9.598		144.987	154.535	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc.											
	(a) For Lift 0 to 1.5m	1			19.35	2.480	1.300	62.384		1350.907	1413.291	
	(b) For Lift 1.5m to 3.0m	1			19.35	2.080	1.000	40.248		317.690	357.930	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(b) For Lift 1.5m to 3.0m	1			19.35	2.000	0.500	20.124		714.629	734.753	
	(c) For Lift 3.0m to 4.5m	1			19.35	1.600	0.100	3.251		156.286	159.536	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(c) For Lift 3.0m to 4.5m	1			19.35	1.680	0.300	9.752		409.595	419.347	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.											
	(c) For Lift 3.0m to 4.5m	1			19.35	1.680	0.415	13.491		241.035	254.525	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.35	1.680	0.200	6.502		126.672	133.174	
	Item No 17 (f) :- Lowering & Laying RCC NPS class pipe of 800mm Dia	1			20.00			20.000		411.000	431.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A=									158.048		
	Deduction											
	pipe area	1.00			0.705	19.35	0.990	0.990	14.89			
	soiling								0.00			
	PCC								0.00			
	Murum bedding								6.50			
	Total = B							21.39				
					Net Qty = A - B				137.46		3228.855	3366.314
	F 27											
14/03/2016	CH1648.80	566.190	562.620	562.325				3.865	3875			
	CH1662.25	566.230	562.640	562.345				3.885				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											



2

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchunwadi), 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 (Kanchunwadi) 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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Sewer F-800- M3

(a) For Lift 0 to 1.5m	1			11.85	2.480	0.200	5.876		154.535	160.413
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
(a) For Lift 0 to 1.5m	1			11.85	2.480	1.300	38.204		1413.291	1451.496
(b) For Lift 1.5m to 3.0m	1			11.85	2.000	1.000	24.648		357.930	382.580
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(b) For Lift 1.5m to 3.0m	1			11.85	2.080	0.500	12.324		734.753	747.077
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			11.85	1.680	0.500	9.954		419.347	429.301
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			11.85	1.680	0.375	7.466		254.525	261.991
Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)										
	1			11.85	1.680	0.200	3.982		133.174	137.155
Item No 17 (f) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia										
	1			12.5			12.500		431.000	443.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation = A =										
Deduction										
pipe area									90.474	
soling	1.00		0.785	11.85	0.990	0.990			9.12	
PCC									0.00	
Murum bedding									0.00	
Total = B									3.98	
									13.10	
									85.37	
15/03/2016 F 28									3366.314	3451.688
CH1662.25	566.230	562.840	562.545				3.685			
CH1688.20	566.940	562.900	562.605				4.335	4.010		
Item No. 3 :- Excavation for foundation/pipe trenches in shaft etc complete										
(a) For Lift 0 to 1.5m	1			24.35	2.480	0.150	9.058		160.413	169.471
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
(a) For Lift 0 to 1.5m	1			24.35	2.480	1.350	81.524		1451.496	1533.020
(b) For Lift 1.5m to 3.0m	1			24.35	2.080	1.100	55.713		382.586	438.299
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
(b) For Lift 1.5m to 3.0m	1			24.35	2.080	0.400	20.259		747.077	767.336
Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			24.35	1.680	0.600	24.545		429.301	453.846
Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
(c) For Lift 3.0m to 4.5m	1			24.35	1.680	0.410	16.771		261.991	278.763
Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)										
	1			24.35	1.680	0.200	8.182		137.155	145.337



2

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Name of work:- Development of Underground Sewerage Collection system for Zone 1 to V1 and Zone Saffan Ab. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banowadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banowadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DE pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aareangabad City.

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

	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			25.0			25.000		443.500	468.500	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A=							207.871				
	Deduction											
	pipe area	1.00			0.785	24.35	0.990	0.990		18.73		
	soiling									0.00		
	PCC									0.00		
	Murum bedding									8.18		
	Total = B							26.92				
					Net Qty = A - B					180.95	3451.688	3632.643
17/03/2016	CH1688.20	566.940	562.900	562.605				4.335	4.435			
	CH1701.65	567.170	562.930	562.635				4.535				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											
	(a) For Lift 0 to 1.5m	1			11.85	2.480	0.200	5.878		169.471	175.348	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc											
	(a) For Lift 0 to 1.5m	1			11.85	2.480	1.300	38.204		1533.029	1571.224	
	(b) For Lift 1.5m to 3.0m	1			11.85	2.000	1.000	24.640		438.298	462.946	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(b) For Lift 1.5m to 3.0m	1			11.85	2.000	0.500	12.324		767.336	779.660	
	(c) For Lift 3.0m to 4.5m	1			11.85	1.680	0.400	7.963		159.536	167.500	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(c) For Lift 3.0m to 4.5m	1			11.85	1.680	0.600	11.945		453.846	465.791	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.											
	(c) For Lift 3.0m to 4.5m	1			11.85	1.680	0.435	8.660		278.763	287.428	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.85	1.680	0.200	3.982		145.337	149.318	
	Item No 17 (F) :- Lowering & Laying RCC NP3 class pipe of 800mm Dia	1			12.5			12.500		468.500	481.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation= A=							109.622				
	Deduction											
	pipe area	1.00			0.785	11.85	0.990	0.990		9.12		
	soiling									0.00		
	PCC									0.00		
	Murum bedding									3.98		
	Total = B							13.10				
					Net Qty = A - B					96.52	3632.643	3729.167
	F 29											
18/03/2016	CH1701.65	567.170	563.030	562.735				4.435	4.525			
	CH1723.55	567.380	563.060	562.765				4.615				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											
	(a) For Lift 0 to 1.5m	1			18.70	2.480	0.000	0.000		175.348	175.348	



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

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

9th RA BILL MEASUREMENTS

SEWER "F"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	F-700mm Dia at Dashmeshnagar										
	Width of trench- For Bottom Lift 0.00-1.50m- 0.7+0.17+0.17+0.5=1.54m										
	From Bottom Lift 1.50-3.00m- 0.7+0.17+0.17+0.5+0.4=1.94m										
	From Bottom Lift 3.00-4.50m- 0.7+0.17+0.17+0.5+0.4+0.4 = 2.34m										
	From Bottom Lift 4.50-6.0m- 0.7+0.17+0.17+0.5+0.4+0.4+0.4 = 2.74m										
	F 30	junction of 800mm & 700mm Dia									
	CH1723.55	567.380	563.260	563.060			4.320	4.145			
	CH1764.50	567.100	563.330	563.130			3.970				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			39.35	2.340	1.500	138.119	1640.788	1778.907	
	(b) For Lift 1.5m to 3.0m	1			39.35	1.940	1.300	99.241	509.622	608.662	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			39.35	1.940	0.200	15.268	791.329	806.597	
	(c) For Lift 3.0m to 4.5m	1			39.35	1.540	0.500	30.300	183.208	213.507	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			39.35	1.540	0.300	18.180	481.499	499.679	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			39.35	1.540	0.345	20.907	303.131	324.038	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			39.35	1.540	0.200	12.120	155.602	167.721	
	Item No. 17 (e) :- Lowering & Laying RCCNP3 class pipe of 700mm Dia	1			40.00			40.000	0.000	40.000	
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation= A							322.013			
	Deduction										
	pipe area	1		0.785	39.35	0.870	0.870	23.38			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							12.12			
	Total = B							35.50			
					Net Qty = A - B			286.51	3884.314	4170.826	
	CH1764.50	567.100	563.330	563.130			3.970	3.810			
	CH1789.50	566.830	563.380	563.180			3.650				
	Item No. 3 :- Excavation for foundation/pipe trenches in slash etc										
	(a) For Lift 0 to 1.5m	1			25.00	2.340	0.200	11.700	175.348	187.048	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			25.00	2.340	1.300	76.050	1778.907	1854.957	



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

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M. S. Infrastructure Pvt. Ltd. & GECPL (Joint Venture)

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Sewer F-700mm-MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	1.940	1.500	72.750			
	(c) For Lift 3.0m to 4.5m	1			25.00	1.540	0.650	25.025	806.597	879.347	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.								213.507	238.532	
	(c) For Lift 3.0m to 4.5m	1			25.00	1.540	0.160	6.160	499.679	505.838	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			25.00	1.540	0.200	7.700	167.721	175.421	
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			25.00			25.000	40.000	65.000	
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation= A							191.685			
	Deduction										
	pipe area	1		0.785	25.00	0.870	0.870	14.05			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							7.70			
	Total = B							22.55			
	Net Qty = A - B							169.13	4170.826	4339.957	
	CH1789.50	566.830	563.380	563.180			3.650	3.660			
	CH1814.50	566.900	563.430	563.230			3.670				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	2.340	0.200	11.700	107.048	198.748	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			25.00	2.340	1.300	76.050	1854.957	1931.007	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			25.00	1.940	1.500	72.750	879.347	952.097	
	(c) For Lift 3.0m to 4.5m	1			25.00	1.540	0.450	17.325	238.532	255.057	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			25.00	1.540	0.210	8.085	505.839	513.924	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			25.00	1.540	0.200	7.700	175.421	183.121	
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			25.00			25.000	65.000	90.600	
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation= A							185.910			
	Deduction										
	pipe area	1		0.785	25.00	0.870	0.870	14.85			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							7.70			
	Total = B							22.55			
	Net Qty = A - B							163.36	4339.957	4503.317	



2

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

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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity	
		No			L	B	D		Page	Quantity		
		GL	IL	EX.L								
	CH1814.50	566.900	563.430	563.230			3.670	3.685				
	CH1827.60	566.950	563.450	563.250			3.700					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											
	(a) For Lift 0 to 1.5m	1			11.65	2.340	0.200	5.452		198.748	204.201	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc.											
	(a) For Lift 0 to 1.5m	1			11.65	2.340	1.300	35.439		1931.007	1966.446	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(b) For Lift 1.5m to 3.0m	1			11.65	1.940	1.500	33.901		952.097	985.998	
	(c) For Lift 3.0m to 4.5m	1			11.65	1.540	0.500	8.970		255.857	264.828	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(c) For Lift 3.0m to 4.5m	1			11.65	1.540	0.185	3.319		513.924	517.243	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			11.65	1.540	0.200	3.588		183.121	186.710	
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			12.50			12.500		90.000	102.500	
	Item No 30 :- Refilling the excavated trenches											
	Total Excavation = A							87.083				
	Deduction											
	pipe area	1		0.785	11.65	0.870	0.870	6.92				
	soiling							0.00				
	PCC							0.00				
	Murrum bedding							3.59				
	Total = B							10.51				
								Net Qty = A - B		76.57	4503.313	4579.895
	F 31											
	CH1827.60	566.950	563.550	563.350			3.600	3.805				
	CH1848.26	567.400	563.590	563.390			4.010					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.											
	(a) For Lift 0 to 1.5m	1			19.15	2.340	0.200	8.962		204.201	213.163	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc.											
	(a) For Lift 0 to 1.5m	1			19.15	2.340	1.300	58.254		1966.446	2024.700	
	(b) For Lift 1.5m to 3.0m	1			19.15	1.940	0.300	11.145		688.862	620.008	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(b) For Lift 1.5m to 3.0m	1			19.15	1.940	1.290	44.581		985.998	1030.579	
	(c) For Lift 3.0m to 4.5m	1			19.15	1.540	0.790	28.644		264.828	285.471	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(c) For Lift 3.0m to 4.5m	1			19.15	1.540	0.105	3.097		517.243	520.339	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.15	1.540	0.200	5.898		186.710	192.608	
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			20.00			20.000		102.500	122.500	



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Name of work:- Design & construction of Underground Sewerage collection system for Zone I to VI and Zone Sahm Ak, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshirawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegam, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegam, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing existing main GRP DI pipe line from Golwadi SPS to Nakshirawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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

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

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Sewer F-700mm-MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A										
	Deduction						146.683				
	pipe area	1		0.785	19.15	0.870	0.870	11.38			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							5.90			
	Total = B							17.28			
								129.41	4579.885	4709.292	
	CH1848.20	567.400	563.590	563.390			4.010				
	CH1865.70	567.850	563.620	563.420			4.430	4.220			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			17.50	2.340	0.200	8.190	213.163	221.353	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			17.50	2.340	1.300	53.235	2024.700	2077.935	
	(b) For Lift 1.5m to 3.0m	1			17.50	1.940	0.300	10.185	620.008	630.193	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			17.50	2.340	0.000	0.000	11.599	11.599	
	(b) For Lift 1.5m to 3.0m	1			17.50	1.940	1.200	40.740	1030.579	1071.319	
	(c) For Lift 3.0m to 4.5m	1			17.50	1.540	0.900	24.255	285.471	309.726	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			17.50	2.340	0.000	0.000	23.198	23.198	
	(b) For Lift 1.5m to 3.0m	1			17.50	1.940	0.000	0.000	256.014	256.014	
	(c) For Lift 3.0m to 4.5m	1			17.50	1.540	0.320	8.624	520.339	528.963	
	(d) For Lift 4.5m to 6.0m	1			17.50	1.540	0.000	0.000	44.289	44.289	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			17.50	1.540	0.000	0.000	324.038	324.038	
	(d) For Lift 4.5m to 6.0m	1			17.50	1.540	0.000	0.000	5.869	5.869	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			17.50	1.540	0.200	5.390	192.608	197.998	
	Item No. 17 (e) :- Lowering & Laying RCC NP3 class pipe of 700mm Dia	1			17.50			17.500	122.500	140.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A										
	Deduction							145.229			
	pipe area	1		0.785	17.50	0.870	0.870	10.40			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							3.39			
	Total = B							15.79			
								129.44	4709.292	4838.733	



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9th RA BILL MEASUREMENTS											
SEWER "F"											
Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Branch of F Sewer-600mm Dia-Near Ropikar Hospital										
	Width of trench-										
	For Bottom Lift 0.00-1.50m- 0.6+0.17+0.17+0.5=1.44m										
	From Bottom Lift 1.50-3.00m- 0.6+0.17+0.17+0.5+0.4=1.84m										
	From Bottom Lift 3.00-4.50m- 0.6+0.17+0.17+0.5+0.4+0.4 = 2.24m										
	From Bottom Lift 4.50-6.0m- 0.6+0.17+0.17+0.5+0.4+0.4+0.4 = 2.64m										
	F 42										
29/02/2016	CH2520.00	574.790	571.015	570.835			3.975	4.718			
	CH2593.70	576.350	571.090	570.890			5.460				
	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			70.80	2.640	0.540	100.932		2077.935	2178.868
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			70.80	2.640	0.600	112.147		11.599	123.746
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			70.80	2.640	0.380	67.288		23.198	90.487
	(b) For Lift 1.5m to 3.0m	1			70.80	2.240	0.740	117.358		256.014	373.372
	Item No. 5 - Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			70.80	2.240	0.760	120.530		0.000	120.530
	(c) For Lift 3.0m to 4.5m	1			70.80	1.840	1.500	195.408		324.038	519.446
	(d) For Lift 4.5m to 6.0m	1			70.80	1.440	0.210	22.226		5.069	28.094
	Item No. 7 - Filling in plinth and floors/trenches etc complete (bedding)										
		1			70.80	1.440	0.200	20.390		197.998	218.388
	Item No 17 (d) - Lowering & Laying RCC NP3 class pipe of 600mm Dia										
		1			72.50			72.500		0.000	72.500
	Item No 30 - Refilling the excavated trenches										
	Total Excavation= A-							735.890			
	Deduction										
	pipe area	1.00		0.785	70.80	0.770	0.770	32.95			
	voiling							0.00			
	PCC							0.00			
	Murrum bedding							20.39			
	Total = B							53.34			
	Net Qty = A - B							682.55		4838.733	5521.28
	F 43										
11/03/2016	CH2593.70	576.350	571.090	571.090			4.660	5.473			
	CH2652.40	578.030	571.945	571.745			6.285				
	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			55.80	2.640	0.730	107.538		2178.868	2286.405
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			55.80	2.640	0.770	113.430		123.746	237.173



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

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

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	(b) For Lift 1.5m to 3.0m	1			55.80	2.240	0.230	28.748		1071.319	1100.067
	Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			55.80	2.240	1.200	149.990		373.372	523.362
	Item No. 5- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			55.80	2.240	0.070	8.749		120.530	129.279
	(c) For Lift 3.0m to 4.5m	1			55.80	1.840	1.500	154.000		514.446	673.454
	(d) For Lift 4.5m to 6.0m	1			55.80	1.440	0.973	78.182		28.094	106.277
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			55.80	1.440	0.200	16.070		218.385	234.454
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			57.50			37.500		72.500	130.000
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation= A=							640.646			
	Deduction										
	pipe area	1.00			0.785	55.80	0.770	25.97			
	soling							0.00			
	POC							0.00			
	Murrum bedding							15.07			
	Total = B							42.04			
								Net Qty = A - B		598.61	5521.200
	F 44										
14/03/2016	CH2652.40	578.030	572.647	572.447				5.583	4.942		
	CH2683.00	576.820	572.719	572.519				4.301			
	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			29.15	2.640	1.500	115.434		2286.405	2401.839
	(b) For Lift 1.5m to 3.0m	1			29.15	2.240	1.500	97.944		630.193	728.137
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			29.15	1.840	0.600	32.182		309.726	341.900
	Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			29.15	1.840	0.242	12.900		528.563	541.943
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(c) For Lift 3.0m to 4.5m	1			29.15	1.840	0.658	35.292		673.454	708.744
	(d) For Lift 4.5m to 6.0m	1			29.15	1.440	0.442	18.553		106.277	124.830
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			29.15	1.440	0.200	8.305		234.459	242.854
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			30.00			30.000		130.000	180.000
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation= A=							312.385			
	Deduction										
	pipe area	1.00			0.785	29.15	0.770	13.57			
	soling							0.00			
	POC							0.00			
	Murrum bedding							8.40			
	Total = B							21.96			
								Net Qty = A - B		290.42	6119.885
15/03/2016	CH2683.00	576.820	572.719	572.519				4.301	4.245		
	CH2713.00	576.780	572.791	572.591				4.189			



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

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	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		30.00	2.240	1.500	100.800	2401.839	2502.639	
	(b) For Lift 1.5m to 3.0m	1		30.00	1.840	1.500	82.800	728.137	810.937	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(c) For Lift 3.0m to 4.5m	1		30.00	1.440	0.700	39.240	341.908	372.148	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.									
	(c) For Lift 3.0m to 4.5m	1		30.00	1.440	0.340	14.688	541.943	556.631	
	Item No. 5 - Excavation for foundation/pipe trenches in Hard rock etc complete.									
	(c) For Lift 3.0m to 4.5m	1		30.00	1.440	0.205	8.956	708.746	717.602	
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1		30.00	1.440	0.280	8.640	242.854	251.494	
	Item No 17 (d) - Lowering & Laying RCC MP3 class pipe of 600mm Dia	1		30.00			30.000	160.000	190.000	
	Item No 30 - Refilling the excavated trenches									
	Total Excavations A=						237.384			
	Deduction									
	pipe area	1.00		0.785	38.00	0.770	0.770	13.96		
	soling							0.00		
	PCC							0.00		
	Murum bedding							8.64		
	Total = B						22.60			
							Net Qty = A - B	214.78	6410.308	6625.09
17/03/2016	CH2713.00	576.780	572.791	572.591			4.189	4.323		
	CH2743.00	577.120	572.863	572.663			4.457			
	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		30.00	2.240	1.500	100.800	2502.639	2603.439	
	(b) For Lift 1.5m to 3.0m	1		30.00	1.840	1.200	66.240	810.937	877.177	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(b) For Lift 1.5m to 3.0m	1		30.00	1.840	0.300	16.560	1100.067	1116.627	
	(c) For Lift 3.0m to 4.5m	1		30.00	1.440	0.600	25.920	372.148	398.068	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.									
	(c) For Lift 3.0m to 4.5m	1		30.00	1.440	0.723	31.234	556.631	587.865	
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1		30.00	1.440	0.280	8.640	251.494	260.134	
	Item No 17 (d) - Lowering & Laying RCC MP3 class pipe of 600mm Dia	1		30.00			30.000	190.000	220.000	
	Item No 30 - Refilling the excavated trenches									
	Total Excavation= A=						248.754			
	Deduction									
	pipe area	1.00		0.785	38.00	0.770	0.770	13.96		
	soling							0.00		
	PCC							0.00		
	Murum bedding							8.64		
	Total = B						22.60			
							Net Qty = A - B	218.15	6625.089	6843.24
18/03/2016	CH2743.00	577.120	572.863	572.663			4.457	4.690		



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Name of work:- Construction 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, Zaha, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zaha, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP 18 pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

	CH2766.10	577.500	572.917	572.717			4.783			
	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			21.65	2.640	1.500	65.734	2603.439	2609.172
	(b) For Lift 1.5m to 3.0m	1			21.65	2.240	1.500	72.744	877.177	949.921
	Item No. 2 :- Excavation for foundation/pipe trenches in hard murrum etc complete.									
	(c) For Lift 3.0m to 4.5m	1			21.65	1.840	1.500	59.754	398.668	457.822
	(d) For Lift 4.5m to 6.0m	1			21.65	1.440	0.120	3.741	0.000	3.741
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			21.65	1.440	0.200	6.235	260.134	266.369
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			22.50			22.500	220.000	242.800
	Item No 30 :- Refilling the excavated trenches									
	Total Excavation= A=							221.973		
	Deduction									
	pipe area	1.00		0.785	21.65	0.770	0.770	10.00		
	soiling							0.00		
	PCC							0.00		
	Murrum bedding							6.24		
	Total = B							16.31		
	F 45							205.66	6813.240	7048.90
19/03/2016	CH2766.10	577.500	573.607	573.407			4.093			
	CH2784.20	578.080	573.649	573.449			4.631	4.362		
	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			16.65	2.240	1.500	55.944	2089.173	2745.117
	(b) For Lift 1.5m to 3.0m	1			16.65	1.840	1.500	45.954	949.921	995.875
	Item No. 2 :- Excavation for foundation/pipe trenches in hard murrum etc complete.									
	(c) For Lift 3.0m to 4.5m	1			16.65	1.440	1.362	32.655	457.822	490.477
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			16.65	1.440	0.200	4.795	266.369	271.164
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			17.50			17.500	242.500	260.000
	Item No 30 :- Refilling the excavated trenches									
	Total Excavation= A=							134.553		
	Deduction									
	pipe area	1.00		0.785	16.65	0.770	0.770	7.75		
	soiling							0.00		
	PCC							0.00		
	Murrum bedding							4.80		
	Total = B							12.54		
	Net Qty = A - B							122.01	7048.902	7170.91
25/03/2016	CH2784.20	578.080	573.649	573.449			4.631			
	CH2804.80	579.350	573.697	573.497			5.853	5.242		
	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			19.15	2.640	1.500	75.834	2745.117	2820.951
	(b) For Lift 1.5m to 3.0m	1			19.15	2.240	1.500	64.344	995.875	1060.219
	(c) For Lift 3.0m to 4.5m	1			19.15	1.840	0.342	12.051	0.000	12.051
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									



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Name of Work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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/DT 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 Venture)

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	(c) For Lift 3.0m to 4.5m	1			19.15	1.840	1.150	40.803		490.477	531.281
	(d) For Lift 4.5m to 6.0m	1			19.15	1.440	0.742	20.461		3.741	24.209
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			19.15	1.440	0.200	5.515		271.164	276.679
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			20.00			20.000		260.000	200.000
	Item No 30 :- Refilling the excavated trenches										
	Total Excavations = A*									213.493	
	Deduction										
	pipe area	1.00			0.785	19.15	0.770	0.770		8.91	
	soiling									0.00	
	PCC									0.00	
	Murram bedding									5.52	
	Total = B									14.43	
	F 46									199.07	
											Net Qty = A - B
										7170.910	7369.90
26/03/2016	CH2804.00	579.250	574.207	574.007				5.343			
	CH2830.40	579.770	574.267	574.067				5.703	5.523		
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete										
	(a) For Lift 0 to 1.5m	1			24.15	2.640	0.000	0.000		221.353	221.353
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murram etc										
	(a) For Lift 0 to 1.5m	1			24.15	2.640	1.500	95.634		2820.951	2916.583
	(b) For Lift 1.5m to 3.0m	1			24.15	2.240	1.500	81.144		1060.219	1141.363
	(c) For Lift 3.0m to 4.5m	1			24.15	1.840	1.023	45.458		12.051	57.509
	Item No. 2 :- Excavation for foundation/pipe trenches in hard murram etc complete										
	(a) For Lift 0 to 1.5m	1			24.15	2.640	0.000	0.000		237.177	237.177
	(b) For Lift 1.5m to 3.0m	1			24.15	2.240	0.000	0.000		1116.627	1116.627
	(c) For Lift 3.0m to 4.5m	1			24.15	1.840	0.477	21.396		531.281	552.476
	(d) For Lift 4.5m to 6.0m	1			24.15	1.440	1.023	35.576		24.203	39.770
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete										
	(a) For Lift 0 to 1.5m	1			24.15	2.640	0.000	0.000		90.487	90.487
	(b) For Lift 1.5m to 3.0m	1			24.15	2.240	0.000	0.000		523.362	523.362
	(c) For Lift 3.0m to 4.5m	1			24.15	1.840	0.000	0.000		587.865	587.865
	(d) For Lift 4.5m to 6.0m	1			24.15	1.440	0.000	0.000		44.289	44.289
	Item No. 5 :- Excavation for foundation/pipe trenches in hard rock etc complete										
	(b) For Lift 1.5m to 3.0m	1			24.15	2.240	0.000	0.000		129.279	129.279
	(c) For Lift 3.0m to 4.5m	1			24.15	1.840	0.000	0.000		717.602	717.602
	(d) For Lift 4.5m to 6.0m	1			24.15	1.440	0.000	0.000		124.830	124.830
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			24.15	1.440	0.200	6.955		276.670	283.635
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.00			25.000		280.000	305.000
	Item No 30 :- Refilling the excavated trenches										
	Total Excavations = A*									279.808	
	Deduction										
	pipe area	1.00			0.785	24.15	0.770	0.770		11.24	
	soiling									0.00	
	PCC									0.00	
	Murram bedding									6.96	
	Total = B									18.20	
	F 46									260.81	
											Net Qty = A - B
										7369.976	7630.788



gr

9th R A BILL MEASUREMENTS
Sewer "F"

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For RCC 1.50m dia Manhole - 1.50+0.2+0.2+0.5+0.5=2.90m Breadth for Manhole=2.90*2.90=8.41m F Sewer 600mm Dia (Ropikar Hospital)										
	F 43	576.350	571.090	570.740			5.610				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.540	3.565	0.000	3.565	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.600	3.961	0.000	3.961	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.360	2.377	0.000	2.377	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.740	4.895	0.000	4.895	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.760	5.017	0.000	5.017	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.500	9.903	0.000	9.903	
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	1.110	7.328	0.000	7.328	
	Item No. 11 Transportation of earth Transportation charges							16.435	0.000	16.435	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation*							37.036			
	Deduction										
	Wall	1		0.785	1.900	1.900	5.260	14.906			
	Soil	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								16.435			
								20.602	0.000	20.602	
	F 44	578.030	571.945	571.595			6.435				
	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	8.410	0.730	4.019	3.565	0.384	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.770	5.083	3.961	9.045	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.230	1.518	0.000	1.518	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.200	7.922	4.885	12.808	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.070	0.462	5.017	5.480	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.500	9.903	9.903	19.806	
	(d) For Lift 4.5m to 6.0m	1			0.785	8.410	1.500	9.903	7.328	17.231	
	(e) For Lift 6.0m to 7.5m	1			0.785	8.410	0.435	2.072	0.000	2.072	
	Item No. 11 Transportation of earth Transportation charges							10.773	16.435	35.208	
	Item No. 30 :- Refilling the excavated trenches ...										



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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up-to Date Quantity
		No			L	B	D		Page	Quantity	
		GL	BL	EXL							
							42.483				
	Total Excavation:-										
	Deduction										
	Wall	1		0.785	1.900	1.900	6.085	17.244			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								18.773			
	Net Qty = A - B							23.710	20.602	44.312	
	F 45	577.500	572.917	572.567			4.933				
	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	0.410	1.500	9.903	8.384	18.287	
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	1.500	9.903	0.000	9.903	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			0.785	0.410	1.500	9.903	0.000	9.903	
	(d) For Lift 4.5m to 6.0m	1			0.785	0.410	0.433	2.859	0.000	2.859	
	Item No. 11 Transportation of earth Transportation charges							14.516	35.208	49.724	
	Item No. 30 - Refilling the excavated trenches							32.567			
	Total Excavation:-										
	Deduction										
	Wall	1		0.785	1.900	1.900	4.583	12.988			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								14.516			
	Net Qty = A - B							18.051	44.312	62.362	
	F 46	579.350	573.697	573.347			6.003				
	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	0.410	1.500	9.903	18.287	28.190	
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	1.500	9.903	9.903	19.096	
	(c) For Lift 3.0m to 4.5m	1			0.785	0.410	0.342	2.258	0.000	2.258	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	0.410	0.000	0.000	9.045	9.045	
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	0.000	0.000	1.518	1.518	
	(c) For Lift 3.0m to 4.5m	1			0.785	0.410	1.158	7.645	9.903	17.548	
	(d) For Lift 4.5m to 6.0m	1			0.785	0.410	1.503	9.923	2.859	12.781	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	0.410	0.000	0.000	2.377	2.377	
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	0.000	0.000	12.008	12.008	
	ITEM No. 5 - Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	0.410	0.000	0.000	5.480	5.480	
	(c) For Lift 3.0m to 4.5m	1			0.785	0.410	0.000	0.000	19.806	19.806	
	(d) For Lift 4.5m to 6.0m	1			0.785	0.410	0.000	0.000	17.231	17.231	
	(e) For Lift 6.0m to 7.5m	1			0.785	0.410	0.000	0.000	2.872	2.872	
	Item No. 11 Transportation of earth Transportation charges							17.549	49.724	67.272	
	Item No. 30 - Refilling the excavated trenches							39.631			
	Total Excavation:-										
	Deduction										
	Wall	1		0.785	1.900	1.900	5.653	16.820			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								17.549			
	Net Qty = A - B							22.082	62.362	84.444	

up to etc

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9th R A BILL MEASUREMENTS

Sewer "F" - Dewatering

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
F-800mm OSMANPURA							
1	03/02/2016	24	1	7:30	9:30	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
		24	1	15:00	17:00	2:00	48:00:00
2	04/02/2016	24	2	7:15	9:15	2:00	96:00:00
		24	2	10:30	12:30	2:00	96:00:00
		24	2	16:00	17:30	1:30	72:00:00
3	05/02/2016	24	2	7:30	9:45	2:15	108:00:00
		24	2	11:30	13:00	1:30	72:00:00
		24	2	15:00	17:30	2:30	120:00:00
4	06/02/2016	24	1	7:30	9:00	1:30	36:00:00
		24	1	10:00	12:00	2:00	48:00:00
		24	1	14:00	16:00	2:00	48:00:00
		24	1	17:00	18:00	1:00	24:00:00
5	07/02/2016	24	1	7:30	10:30	3:00	72:00:00
		24	1	13:00	16:00	3:00	72:00:00
6	09/02/2016	24	2	7:30	10:30	3:00	144:00:00
		24	2	12:00	14:00	2:00	96:00:00
		24	2	16:00	18:00	2:00	96:00:00
7	10/02/2016	24	2	7:15	10:15	3:00	144:00:00
		24	2	13:00	15:00	2:00	96:00:00
		24	2	17:00	18:00	1:00	48:00:00
8	11/02/2016	24	1	7:00	9:30	2:30	60:00:00
		24	1	12:00	14:00	2:00	48:00:00
		24	1	16:00	18:00	2:00	48:00:00
9	12/02/2016	24	2	7:30	9:30	2:00	96:00:00
		24	2	11:00	13:00	2:00	96:00:00
		24	2	16:00	18:30	2:30	120:00:00
10	13/02/2016	24	1	7:00	9:45	2:45	66:00:00
		24	1	12:30	15:00	2:30	60:00:00
		24	1	17:00	18:00	1:00	24:00:00
11	15/02/2016	24	2	7:30	10:00	2:30	120:00:00
		24	2	12:30	14:30	2:00	96:00:00
		24	2	16:00	18:30	2:30	120:00:00
12	16/02/2016	24	1	7:00	10:00	3:00	72:00:00
		24	1	13:00	14:30	1:30	36:00:00
		24	1	16:30	18:00	1:30	36:00:00
13	17/02/2016	24	2	7:30	10:30	3:00	144:00:00
		24	2	13:00	15:00	2:00	96:00:00
		24	2	16:30	18:30	2:00	96:00:00
14	17/02/2016	24	1	7:15	10:15	3:00	72:00:00
		24	1	12:30	14:30	2:00	48:00:00
		24	1	16:15	17:30	1:15	30:00:00
15	18/02/2016	24	2	7:20	9:00	1:40	80:00:00
		24	2	10:30	12:30	2:00	96:00:00
		24	2	15:00	17:30	2:30	120:00:00



J

Name of work:- Development of Underground Sewerage Collection system for Zone 1 to V1 and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchartwadi), Banewadi, Siddharth Garden, Zalia, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalia, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchartwadi) STP and Ward No.98 to STP for Aurangabad City.

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Sewer F-Dewatering RA9

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
16	16/02/2016	24	1	7:00	10:00	3:00	72:00:00
		24	1	13:00	15:00	2:00	48:00:00
		24	1	17:00	18:00	1:00	24:00:00
17	20/02/2016	24	2	7:15	9:15	2:00	96:00:00
		24	2	12:30	14:30	2:00	96:00:00
		24	2	16:00	18:00	2:00	96:00:00
18	22/02/2016	24	1	7:30	10:00	2:30	60:00:00
		24	1	12:30	14:30	2:00	48:00:00
		24	1	16:30	18:30	2:00	48:00:00
19	23/02/2016	24	1	7:30	10:00	2:30	60:00:00
		24	1	12:00	14:00	2:00	48:00:00
		24	1	16:00	18:00	2:00	48:00:00
20	24/02/2016	24	2	8:00	10:00	2:00	96:00:00
		24	2	13:00	15:00	2:00	96:00:00
		24	2	17:00	18:00	1:00	48:00:00
21	25/02/2016	24	2	7:15	9:15	2:00	96:00:00
		24	2	12:30	14:30	2:00	96:00:00
		24	2	16:15	18:15	2:00	96:00:00
22	26/02/2016	24	1	7:30	9:00	1:30	36:00:00
		24	1	10:00	12:00	2:00	48:00:00
		24	1	15:00	17:00	2:00	48:00:00
23	27/02/2016	24	1	7:15	9:15	2:00	48:00:00
		24	1	12:30	14:30	2:00	48:00:00
		24	1	16:30	18:30	2:00	48:00:00
24	29/02/2016	24	2	7:00	10:00	3:00	144:00:00
		24	2	12:00	14:00	2:00	96:00:00
		24	2	16:00	18:30	2:30	120:00:00
25	01/03/2016	24	1	7:30	9:30	2:00	48:00:00
		24	1	13:00	15:00	2:00	48:00:00
		24	1	17:00	19:00	2:00	48:00:00
26	02/03/2016	24	2	7:15	9:15	2:00	96:00:00
		24	2	12:30	14:30	2:00	96:00:00
		24	2	16:30	19:00	2:30	120:00:00
27	03/03/2016	24	1	8:15	9:45	1:30	36:00:00
		24	1	10:00	12:00	2:00	48:00:00
		24	1	16:30	18:30	2:00	48:00:00
28	04/03/2016	24	1	7:15	9:15	2:00	48:00:00
		24	1	12:30	14:30	2:00	48:00:00
		24	1	16:15	18:15	2:00	48:00:00
29	05/03/2016	24	2	8:00	12:00	4:00	192:00:00
		24	2	13:30	16:30	3:00	144:00:00
30	07/03/2016	24	2	7:30	9:30	2:00	96:00:00
		24	2	12:00	13:00	1:00	48:00:00
		24	2	14:00	17:00	3:00	144:00:00
31	08/03/2016	24	1	7:30	10:00	2:30	60:00:00
		24	1	12:00	14:00	2:00	48:00:00
		24	1	16:00	17:30	1:30	36:00:00
32	09/03/2016	24	1	7:00	10:00	3:00	72:00:00
		24	1	13:00	16:00	3:00	72:00:00



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salem AK, Construction, Erection, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchunwadi), Banerwadi, Siddharth Garden, Zalta, Padegao, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewerage pumping stations at Banerwadi, Siddharth Garden, Padegao, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP 18 pipe line from Golwadi SPS to Nakshtrawadi (Kanchunwadi) STP and Ward No.98 to STP for Aurangabad City.

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Sewer F-Dewatering RA9

Sr.No.	Date	Pump Capacity in Hp	No. of Pumps	Time		Total Hrs	B ^h p/Hr		
				From	To				
33	10/03/2016	24	1	7:15	10:15	3:00	72:00:00		
				12:15	14:15	2:00	48:00:00		
				16:00	18:00	2:00	48:00:00		
34	11/03/2016	24	2	7:00	9:30	2:30	120:00:00		
				12:00	15:00	3:00	144:00:00		
				16:00	18:00	2:00	96:00:00		
35	12/03/2016	24	2	7:30	9:30	2:00	96:00:00		
				13:00	15:00	2:00	96:00:00		
				17:00	18:00	1:00	48:00:00		
36	14/03/2016	24	1	7:00	10:00	3:00	72:00:00		
				12:00	14:00	2:00	48:00:00		
				16:00	18:00	2:00	48:00:00		
37	15/03/2016	24	1	7:00	9:30	2:30	60:00:00		
				12:30	14:00	1:30	36:00:00		
				16:00	18:00	2:00	48:00:00		
38	16/03/2016	24	1	7:00	10:00	3:00	72:00:00		
				14:00	17:00	3:00	72:00:00		
				7:30	10:30	3:00	144:00:00		
39	17/03/2016	24	2	14:00	17:30	3:30	168:00:00		
				F-600mm BALAJI NAGAR					
				7:30	9:00	1:30	22:30:00		
1	22/02/2016	15	1	11:00	14:30	3:30	52:30:00		
				7:50	11:50	4:00	120:00:00		
				13:00	14:00	1:00	30:00:00		
2	23/02/2016	15	2	14:30	15:30	1:00	30:00:00		
				15:30	17:30	2:00	60:00:00		
				7:30	9:30	2:00	30:00:00		
3	24/02/2016	15	1	10:00	11:00	1:00	15:00:00		
				8:00	10:00	2:00	30:00:00		
				13:00	15:00	2:00	30:00:00		
4	25/02/2016	15	1	7:50	10:50	3:00	45:00:00		
				11:00	13:00	2:00	30:00:00		
				8:00	10:00	2:00	30:00:00		
5	26/02/2016	15	1	14:00	16:00	2:00	30:00:00		
				7:50	9:50	2:00	30:00:00		
				11:00	13:00	2:00	30:00:00		
6	27/02/2016	15	1	8:00	10:00	2:00	30:00:00		
				14:00	16:00	2:00	30:00:00		
				7:50	9:50	2:00	30:00:00		
7	29/02/2016	15	1	11:00	13:00	2:00	30:00:00		
				8:00	10:00	2:00	30:00:00		
				11:00	12:00	1:00	15:00:00		
8	01/03/2016	15	1	7:50	11:50	4:00	60:00:00		
				14:00	15:00	1:00	15:00:00		
				8:00	9:00	1:00	15:00:00		
9	02/03/2016	15	1	11:00	14:00	3:00	45:00:00		
				8:00	10:00	2:00	30:00:00		
				12:00	13:00	1:00	15:00:00		
10	03/03/2016	15	1	15:00	16:00	1:00	15:00:00		
				7:50	9:50	2:00	30:00:00		
				11:30	14:30	3:00	45:00:00		
11	04/03/2016	15	1	8:00	9:00	1:00	15:00:00		
				9:00	12:00	3:00	45:00:00		
				15:00	16:00	1:00	15:00:00		
12	05/03/2016	15	1	7:50	9:50	2:00	30:00:00		
				11:30	14:30	3:00	45:00:00		
				8:00	9:00	1:00	15:00:00		
13	07/03/2016	15	1	9:00	12:00	3:00	45:00:00		



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Name of Work:- Devlopment of Sewerage Treatment 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/DE 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 Venture)

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

Sewer P-Dewatering RAG

Sr.No.	Date	Pump Capacity in Hp	No. of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
14	08/03/2016	15	1	7:30	10:30	3:00	45:00:00
		15	1	12:00	13:00	1:00	15:00:00
15	09/03/2016	15	1	7:50	10:50	3:00	45:00:00
		15	1	7:30	8:30	1:00	15:00:00
16	10/03/2016	15	1	9:00	12:00	3:00	45:00:00
		15	1	8:00	10:00	2:00	30:00:00
17	11/02/2016	15	1	14:00	15:00	1:00	15:00:00
		15	1	7:30	9:30	2:00	30:00:00
18	12/03/2016	15	1	13:00	15:00	2:00	30:00:00
		15	1	8:00	9:30	1:30	22:30:00
19	14/03/2016	15	1	10:00	11:30	1:30	22:30:00
		15	1	14:00	15:00	1:00	15:00:00
20	15/03/2016	15	1	7:30	9:30	2:00	30:00:00
		15	1	10:00	11:00	1:00	15:00:00
21	16/03/2016	15	1	14:30	15:30	1:00	15:00:00
		15	1	8:00	9:30	1:30	22:30:00
22	17/03/2016	15	1	10:00	11:30	1:30	22:30:00
		15	1	13:00	14:00	1:00	15:00:00
23	18/03/2016	15	1	7:30	10:00	2:30	37:30:00
		15	1	12:30	13:00	0:30	7:30:00
24	19/03/2016	15	1	14:00	15:00	1:00	15:00:00
		15	1	7:15	9:45	2:30	37:30:00
25	21/03/2016	15	1	12:30	13:30	1:00	15:00:00
		15	1	7:30	9:30	2:00	30:00:00
26	22/03/2016	15	1	14:00	15:00	1:00	15:00:00
		15	1	8:00	10:00	2:00	30:00:00
27	23/03/2016	15	1	15:00	15:30	0:30	7:30:00
		15	1	7:30	8:00	0:30	7:30:00
28	25/03/2016	15	1	9:00	12:00	3:00	45:00:00
		15	1	8:00	11:00	3:00	45:00:00
29	26/03/2016	15	1	14:00	15:00	1:00	15:00:00
		15	1	7:00	9:00	2:00	30:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	7:30	8:30	1:00	15:00:00
						358:25:00	10437:30:00
Total							10437.500



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Safim All. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrwadi (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 Nakshtrwadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :-

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Page No. :-

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

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

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Sewer F-Disposal

9th R A BILL MEASUREMENTS

F Sewer

Item No. 11

Disposal of excavated material including loading the excavated material in trucks / tractors and unloading the same at a distance of 10 KMS as directed by engineer-in-charge.

SR.NO.	Particulars of work	UNIT	DETAILS							Total Qty. Of Disposal
			Chainage		NO	L	B	D	QTY	
			From	To						
1	F-Sewer 800 mm Dia		701.60	1708.55						
	Pipe volume	Cum			0.785	1006.95	0.990	0.990	774.73	1113.06
	Murrum bedding	Cum				1006.95	1.680	0.20	338.34	
2	F-Sewer 700 mm Dia		1708.55	1850.70						
	Pipe volume	Cum			0.785	142.15	0.870	0.870	84.46	128.24
	Murrum bedding	Cum				142.15	1.540	0.20	43.78	
Total										1241.304



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/HD 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 Venture)
Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

Sewer F-Extra Work

9th R A BILL MEASUREMENTS
SEWER "F"

Sr.No.	Description	Unit	No.	Length	Width	Height	Quantity
A							
Item No. 4 :-Excavation for foundation/pipe trenches in soft rock and old cement and lime masonry foundation asphalt road manually or by using mechanical means including & removing the excavated materials, up to a distance of 50.0 m beyond the area, and lifts as below. Stacking and spreading as directed,							
1	In between Manhole F 30 to F 31 to right side Corporation Nala wall	Cum	1	6.50	0.85	2.00	11.050
2	In between Manhole F 30 to F 31 to right side Corporation Nala wall	Cum	1	4.00	0.75	2.50	7.500
3	In between Manhole F 30 to F 31 to left side Dr. Mule compound wall	Cum	1	9.70	0.80	3.00	23.280
4	In between Manhole F 29 to F 30 UCR wall of Pipe culvert	Cum	1	16.80	0.40	1.30	8.735
5	In between Manhole F 29 to F 30 UCR wall of Pipe culvert	Cum	1	13.30	0.40	1.30	6.918
							57.482
B							
Item No 15:- Supply of RCC Pipes							
1	h) Supply of RCC Pipes of 1000mm dia NP3 pipe for Pipe culvert in between Manhole F 29 to F 30	Rmt	4	2.50			10.000
C							
Item No 17:- Laying of RCC Pipes Item							
1	h) Laying of RCC Pipes of 1000mm dia NP3 pipe for Pipe culvert in between Manhole F 29 to F 30	Rmt	4	2.50			10.000
D							
Extra Item no.-5. a) Providing Rubble Soiling For R.R. Due to stone used which is present on site							
1	for Pipe culvert in between Manhole F 29 to F 30	Cum	1	7.50	6.00	0.30	13.500
							13.500
E							
Extra Item no.-5. b) Providing & casting M 15 Grade Concrete							
1	PCC for Pipe culvert in between Manhole F 29 to F 30	Cum	1	7.50	6.00	0.15	6.750
2	Coping for wall of Pipe culvert in between Manhole F 29 to F 30	Cum	1	16.80	0.40	0.10	0.672
3	Coping for wall of Pipe culvert in between Manhole F 29 to F 30	Cum	1	13.30	0.40	0.10	0.532
4	Coping in between Manhole F 30 to F 31 to right side Corporation Nala wall	Cum	1	6.50	0.85	0.10	0.553
5	Coping in between Manhole F 30 to F 31 to right side Corporation Nala wall	Cum	1	4.00	0.75	0.10	0.300
6	Coping in between Manhole F 30 to F 31 to left side Dr. Mule compound wall	Cum	1	9.70	0.60	0.10	0.582
							9.389
F							
Extra Item no.-5. c) Construction of UCR Masonry							
For R.R. Due to stone used which is present on site							
1	In between Manhole F 30 to F 31 to right side Corporation Nala wall	Cum	1	6.50	0.85	1.90	10.498
2	In between Manhole F 30 to F 31 to right side Corporation Nala wall	Cum	1	4.00	0.75	2.40	7.200
3	In between Manhole F 30 to F 31 to left side Dr. Mule compound wall	Cum	1	9.70	0.80	2.90	22.504
							40.202
For F.R.							
1	In between Manhole F 29 to F 30 UCR wall of Pipe culvert	Cum	1	16.80	0.40	1.20	8.064
2	In between Manhole F 29 to F 30 UCR wall of Pipe culvert	Cum	1	13.30	0.40	1.20	6.384
							14.448



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Sewer F Quantity Note Abstract

9th R A BILL MEASUREMENTS

Main Sewer "F"

SR NO	Description	MB/PG	ITEM 7	ITEM 10	ITEM 11	ITEM 17			ITEM 22 upto 5 m	ITEM 22.1 Rebate	ITEM 33	EIRL 1		EIRL 5				
						600mm	700mm	800mm				1000mm	Full Rate	Rebate	a	b	c	c (f)
1	For Pipe		283.535	10,437.500	1,241.304	305.000	140.000	501.000	10.000		7,630.79				13.500	9.389	14.448	40.202
2	For Manhole				67.272				9.000	6.400	84.445		14.060					
	Total		283.535	10,437.500	1,308.576	305.000	140.000	501.000	10.000	6.400	7,715.23	3.000	14.560	13.500	9.389	14.448	40.202	



CLIENT
 [Signature] Jr. Engineer
 [Signature] By Engineer

[Signature] Ex. Engineer

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an-	Total up to Date
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	10