

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Safim Aft. 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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B Sewer-Jatwada-Harsul 400mm-MB

9th R A BILL MEASUREMENTS

SEWER "B"

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	400mm Dia-At Harsul										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.4+0.15+0.15+0.5=1.2m										
	From Bottom Lift 1.50m-3.00m- 0.4+0.15+0.15+0.5+0.4=1.6m										
	From Bottom Lift 3.00m-4.50m- 0.4+0.15+0.15+0.5+0.4+0.4=2.0m										
	B 311	40m Gap Before B311									
	CH14521.50	603.915	600.940	600.740			3.17	2.810			
	CH14542.10	603.350	601.104	600.904			2.45				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.600	0.500	15.320	685.479	700.799	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.600	1.000	30.640	9778.598	9809.238	
	(b) For Lift 1.5m to 3.0m	1			19.15	1.200	1.310	30.104	3880.593	3910.697	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.15	1.200	0.200	4.596	1329.770	1334.366	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000	290.000	310.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							76.064			
	Deduction										
	pipe area	1		0.785	19.15	0.550	0.550	4.55			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.60			
	Total = B							9.14			
					Net Qty = A - B			66.92	19584.829	19651.750	
	CH14542.10	603.350	601.104	600.904			2.45	2.266			
	CH14572.70	603.235	601.350	601.150			2.09				
	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			29.15	1.600	1.500	69.960	9809.238	9879.198	
	(b) For Lift 1.5m to 3.0m	1			29.15	1.200	0.766	26.795	3910.697	3937.491	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.15	1.200	0.200	6.996	1334.366	1341.362	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			30.00			30.000	310.000	340.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							96.755			
	Deduction										
	pipe area	1		0.785	29.15	0.550	0.550	6.92			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.00			
	Total = B							13.92			
					Net Qty = A - B			82.84	19651.750	19734.586	
	B 312										
	CH14572.70	603.235	601.350	601.150			2.09	2.200			
	CH14608.90	603.635	601.520	601.320			2.32				



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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	pipe area	1		0.785	38.30	0.550	0.550	9.09			
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.19			
	Total = B							18.29			
		Net Qty = A - B						105.12		19935.831	20040.947
	B 315										
	CH14691.30	603.635	601.700	601.500			2.13	1.918			
	CH14742.50	603.300	601.800	601.600			1.70				
	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			48.30	1.600	1.500	115.920		10142.958	10258.878
	(b) For Lift 1.5m to 3.0m	1			48.30	1.200	0.418	24.198		4032.565	4056.763
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			48.30	1.200	0.200	11.592		1367.738	1379.330
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			50.00			50.000		455.000	505.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							140.118			
	Deduction										
	pipe area	1		0.785	48.30	0.550	0.550	11.47			
	soling							0.00			
	PCC							0.00			
	Murum bedding							11.59			
	Total = B							23.06			
		Net Qty = A - B						117.06		20040.947	20158.004
	B 316										
	CH14742.50	603.300	601.800	601.600			1.70	1.700			
	CH14753.10	603.320	601.820	601.620			1.70				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			9.15	1.600	0.200	2.928		700.799	703.727
	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			9.15	1.600	1.300	19.032		10258.878	10277.910
	(b) For Lift 1.5m to 3.0m	1			9.15	1.200	0.200	2.196		4056.763	4058.959
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			9.15	1.200	0.200	2.196		1379.330	1381.526
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			10.00			10.000		505.000	515.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							24.156			
	Deduction										
	pipe area	1		0.785	9.15	0.550	0.550	2.17			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.20			
	Total = B							4.37			
		Net Qty = A - B						19.79		20158.004	20177.791
	CH14753.10	603.320	601.820	601.620			1.70	1.700			
	CH14773.70	603.350	601.850	601.650			1.70				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.600	1.500	45.960		10277.910	10323.870



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

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M/s. Khilari Infrastructure Pvt Ltd & GECPL (Joint Venture)

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B Sewer-Jatwada-Harsul 400mm-M8

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Total = B							5.56			
		Net Qty = A - B						31.71		20381.470	20413.179
	B 318										
	CH14858.00	604.160	602.060	601.860			2.30				
	CH14876.10	604.268	602.102	601.902			2.37	2.333			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			16.65	1.600	0.350	9.324		725.839	735.163
	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			16.65	1.600	1.150	30.636		10493.638	10524.274
	(b) For Lift 1.5m to 3.0m	1			16.65	1.200	0.833	16.643		4091.806	4108.449
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.65	1.200	0.200	3.996		1405.310	1409.306
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			17.5			17.500		617.500	635.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							56.603			
	Deduction										
	pipe area	1		0.785	16.65	0.550	0.550	3.95			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.00			
	Total = B							7.95			
		Net Qty = A - B						48.65		20413.179	20461.832
	CH14876.10	604.268	602.102	601.902			2.37				
	CH14896.10	604.392	602.149	601.949			2.44	2.405			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			20.00	1.600	0.380	12.160		735.163	747.323
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			20.00	1.600	1.120	35.840		10524.274	10560.114
	(b) For Lift 1.5m to 3.0m	1			20.00	1.200	0.905	21.720		4108.449	4130.169
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			20.00	1.200	0.200	4.800		1409.306	1414.106
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000		635.000	655.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							69.720			
	Deduction										
	pipe area	1		0.785	20.00	0.550	0.550	4.75			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.80			
	Total = B							9.55			
		Net Qty = A - B						60.17		20461.832	20522.003
	CH14896.10	604.392	602.149	601.949			2.44				
	CH14911.70	604.485	602.185	601.985			2.50	2.472			



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

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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE	
		No			L	B	D		Page	Quantity		
		GL	IL	EX.L								
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.											
	(a) For Lift 0 to 1.5m	1			14.15	1.600	1.500	33.960		10560.114	10594.074	
	(b) For Lift 1.5m to 3.0m	1			14.15	1.200	0.600	10.188		4130.169	4140.357	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(b) For Lift 1.5m to 3.0m	1			14.15	1.200	0.372	6.317		1361.438	1367.754	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.15	1.200	0.200	3.396		1414.106	1417.502	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			15.0			15.000		655.000	670.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							50.465				
	Deduction											
	pipe area	1		0.785	14.15	0.550	0.550	3.36				
	soling							0.00				
	PCC							0.00				
	Murrum bedding							3.40				
	Total = B							6.76				
								Net Qty = A - B		43.71	20522.003	20565.711
	B 319											
	CH14911.70	604.485	602.185	601.985			2.50	2.742				
	CH14957.30	605.073	602.289	602.089			2.98					
	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			44.15	1.600	1.500	105.960		10594.074	10700.034	
	(b) For Lift 1.5m to 3.0m	1			44.15	1.200	1.050	55.629		4140.357	4195.986	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.											
	(b) For Lift 1.5m to 3.0m	1			44.15	1.200	0.192	10.172		1367.754	1377.927	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			44.15	1.200	0.200	10.596		1417.502	1428.098	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			45.0			45.000		670.000	715.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							171.761				
	Deduction											
	pipe area	1		0.785	44.15	0.550	0.550	10.48				
	soling							0.00				
	PCC							0.00				
	Murrum bedding							10.60				
	Total = B							21.08				
								Net Qty = A - B		150.68	20565.711	20716.393
	CH14957.30	605.073	602.289	602.089			2.98	3.092				
	CH14977.90	605.335	602.335	602.135			3.20					
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.											
	(a) For Lift 0 to 1.5m	1			19.15	1.600	1.500	45.960		10700.034	10745.994	
	(b) For Lift 1.5m to 3.0m	1			19.15	1.200	1.150	26.427		4195.986	4222.413	



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

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Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.200	0.350	8.043	1377.927	1385.970	
	(c) For Lift 3.0m to 4.5m	1			19.15	1.200	0.092	2.114	267.643	269.758	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.15	1.200	0.200	4.596	1428.098	1432.694	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000	715.000	735.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							82.544			
	Deduction										
	pipe area	1		0.785	19.15	0.550	0.550	4.55			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.60			
	Total = B							9.14			
								Net Qty = A - B			
								73.40	20716.393	20789.793	
	B 320										
	CH14977.90	605.335	602.335	602.135			3.20	3.100			
	CH14998.50	605.185	602.385	602.185			3.00				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.600	1.500	45.960	10745.994	10791.954	
	(b) For Lift 1.5m to 3.0m	1			19.15	1.200	1.500	34.470	4222.413	4256.883	
	(c) For Lift 3.0m to 4.5m	1			19.15	1.200	0.100	2.298	185.939	188.237	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.15	1.200	0.200	4.596	1432.694	1437.290	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000	735.000	755.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							82.728			
	Deduction										
	pipe area	1		0.785	19.15	0.550	0.550	4.55			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.60			
	Total = B							9.14			
								Net Qty = A - B			
								73.58	20789.793	20863.378	
	CH14998.50	605.185	602.385	602.185			3.00	2.900			
	CH15019.10	605.035	602.435	602.235			2.80				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.600	0.300	9.192	747.323	756.515	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			19.15	1.600	1.200	36.768	10791.954	10828.722	
	(b) For Lift 1.5m to 3.0m	1			19.15	1.200	1.400	32.172	4256.883	4289.055	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			19.15	1.200	0.200	4.596	1437.290	1441.886	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.0			20.000	755.000	775.000	



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Name of work :- Development of Underground Sewerage Collection system for Zone I to VI
 as per plan No. 45, Constructing, Erecting, Testing and Commissioning of Sewage Treatment
 Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth
 Garden, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission
 of 10 nos. pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
 No. 98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main
 of 10 nos. at Banewadi, CIDCO (Airport), Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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B Sewer-Jatwada-Harsul 400mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A						78.132				
	Deduction										
	pipe area	1		0.785	19.15	0.550	0.550	4.55			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							4.60			
	Total = B							9.14			
								68.99			
									20863.378	20932.367	
	B 321										
	CH15099.00	605.035	602.435	602.235			2.80	2.650			
	CH15060.30	604.845	602.545	602.345			2.50				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			38.30	1.600	0.500	30.640	756.515	787.155	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.30	1.600	1.000	61.280	10828.722	10890.002	
	(b) For Lift 1.5m to 3.0m	1			38.30	1.200	1.150	52.854	4289.055	4341.909	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.30	1.200	0.200	9.192	1441.886	1451.078	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			40.0			40.000	775.000	815.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							144.774			
	Deduction										
	pipe area	1		0.785	38.30	0.550	0.550	9.09			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							9.19			
	Total = B							18.29			
								126.49			
									20932.367	21058.854	
	B 322										
	CH15060.30	604.845	602.545	602.345			2.50	2.500			
	CH15099.00	604.935	602.635	602.435			2.50				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			35.80	1.600	0.600	34.368	787.155	821.523	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			35.80	1.600	0.900	51.552	10890.002	10941.554	
	(b) For Lift 1.5m to 3.0m	1			35.80	1.200	1.000	42.960	4341.909	4384.869	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			35.80	1.200	0.200	8.592	1451.078	1459.670	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			37.5			37.500	815.000	852.500	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							128.880			
	Deduction										
	pipe area	1		0.785	35.80	0.550	0.550	8.50			
	soiling							0.00			
	PCC							0.00			
	Murum bedding							8.59			



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

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Page No. :-

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE
		No			L	B		D	Page	
		GL	IL	EX.L						
Total = B							17.09			
		Net Qty = A - B					111.79		21058.854	21170.641
B 323										
CH15099.00		604.935	602.635	602.435		2.50	2.700			
CH15140.20		605.430	602.730	602.530		2.90				
Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
(a) For Lift 0 to 1.5m		1			38.30	1.600	0.600	36.768	821.523	858.291
Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
(a) For Lift 0 to 1.5m		1			38.30	1.600	0.900	55.152	10941.554	10996.706
(b) For Lift 1.5m to 3.0m		1			38.30	1.200	1.200	55.152	4384.869	4440.021
Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)		1			38.30	1.200	0.200	9.192	1459.670	1468.862
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia		1			40.0			40.000	852.500	892.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation = A								147.072		
Deduction										
pipe area		1		0.785	38.30	0.550	0.550	9.09		
soling								0.00		
PCC								0.00		
Murrum bedding								9.19		
Total = B								18.29		
		Net Qty = A - B					128.79		21170.641	21299.426
B 324										
CH15140.20		605.430	602.730	602.530		2.90	2.950			
CH15176.40		605.610	602.810	602.610		3.00				
Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
(a) For Lift 0 to 1.5m		1			33.30	1.600	0.600	31.968	858.291	890.259
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			33.30	1.600	0.900	47.952	10996.706	11044.658
(b) For Lift 1.5m to 3.0m		1			33.30	1.200	1.100	43.956	4440.021	4483.977
Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
(b) For Lift 1.5m to 3.0m		1			33.30	1.200	0.350	13.986	1385.970	1399.956
Item No. 7 :- Filling in plinth and floors/ trenches etc		1			33.30	1.200	0.200	7.992	1468.862	1476.854
Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia		1			35.0			35.000	892.500	927.500
Item No 30 :- Refilling the excavated trenches ...										
Total Excavation = A								137.862		
Deduction										
pipe area		1		0.785	33.30	0.550	0.550	7.91		
soling								0.00		
PCC								0.00		
Murrum bedding								7.99		
Total = B								15.90		
		Net Qty = A - B					121.96		21299.426	21421.388
B 325										
CH15176.40		605.610	602.810	602.610		3.00				



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

Book No. :-

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B Sewer-BBM 1.2m Dia MH Jetwada

9th R A BILL MEASUREMENTS

Sewer B

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20m dia Manhole (upto a depth of 2.0m)- 1.20+0.23+0.5+0.5=2.66m Breadth for Manhole=2.66*2.66=7.0756m B 253.1 CH96.20						2.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. (a) For Lift 0 to 1.5m (b) For Lift 1.5m to 3.0m				0.785	7.076	1.250	6.943	0.000	6.943	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			0.785	7.076	1.050	5.832	0.000	5.832	
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=							14.164			
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.100	3.185			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.515			
								Net Qty = A - B	0.000	9.649	
	B 253.2 CH107.40	593.750	591.550	591.100			2.650				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete. (a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666	0.000	1.666	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. (a) For Lift 0 to 1.5m (b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.200	6.665	6.943	13.608	
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=				0.785	7.076	1.150	6.387	5.832	12.220	
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.200	3.337			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.666			
								Net Qty = A - B	9.649	18.036	
	B 253.3 CH143.60	593.650	591.650	591.200			2.450				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete. (a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666	1.666	3.333	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. (a) For Lift 0 to 1.5m (b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.200	6.665	13.608	20.273	
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=				0.785	7.076	0.950	5.277	12.220	17.496	
	Deduction										
								11.942			



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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							
	Brick work	1		0.785	1.390	1.390	2.000	3.033			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.363			
								7.579	18.036	25.614	
	B 253.4										
	CH199.80	593.500	591.800	591.350			2.150				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.250	1.389	3.333	4.721	
	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	7.076	1.250	6.943	20.273	27.216	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.650	3.610	17.496	21.107	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.553			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.700	2.578			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.908			
								6.645	25.614	32.260	
	B 253.5										
	CH296.00	593.550	592.050	591.600			1.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	1.500	8.332	27.216	35.548	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.450	2.499	21.107	23.606	
	Item No. : 11 Transportation of earth Transportation charges							3.605	0.000	3.605	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							10.831			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.500	2.275			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.605			
								7.226	32.260	39.486	
	B 253.6										
	CH312.20	593.370	592.070	591.620			1.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	1.500	8.332	35.548	43.879	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.250	1.389	23.606	24.995	
	Item No. : 11 Transportation of earth Transportation charges							3.301	3.605	6.906	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							9.720			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.300	1.972			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.301			
								6.419	39.486	45.905	
	B 253.7										
	CH328.40	593.600	592.100	591.650			1.950				



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Safim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP-DI 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 Sewer-88M 1.2m Dia MH Jatwada

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. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	1.500	8.332			
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.450	2.499	43.879	52.211	
	Item No. : 11 Transportation of earth Transportation charges							3.605	24.995	27.494	
	Item No. 30 :- Refilling the excavated trenches ...								6.906	10.510	
	Total Excavation=							10.831			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.500	2.275			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.605			
	B 253.8							7.226	45.905	53.132	
	CH339.60	593.240	592.140	591.690			1.550				
	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	7.076	1.500	8.332			
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.050	0.278	52.211	60.542	
	Item No. : 11 Transportation of earth Transportation charges							2.998	27.494	27.772	
	Item No. 30 :- Refilling the excavated trenches ...								10.510	13.508	
	Total Excavation=							8.609			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.100	1.668			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								2.998			
	B 253.9							5.611	53.132	58.743	
	CH363.30	593.000	592.200	591.750			1.250				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.000	0.000	4.721	4.721	
	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	7.076	1.250	6.943	60.542	67.485	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.000	0.000	27.772	27.772	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.000	0.000	1.389	1.389	
	Item No. : 11 Transportation of earth Transportation charges							2.543	13.508	16.051	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							6.943			
	Deduction										
	Brick work	1		0.785	1.390	1.390	0.800	1.213			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								2.543			
	Net Qty = A - B							4.400	58.743	63.143	



7/4/20

9th R A BILL MEASUREMENTS

Sewer B

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 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										
	B 308	602.290	599.870	599.520			2.770	400mm Harsul			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.000	0.000	4.721	4.721	
	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	1.500	9.903	67.485	77.388	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.270	8.384	27.772	36.156	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.287			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.420	6.858		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								8.387			
	Net Qty = A - B							9.900	63.143	73.043	
	B 309	602.530	600.000	599.650			2.880				
	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	1.500	9.903	77.388	87.291	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.380	9.111	36.156	45.267	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.013			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.530	7.170		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								8.698			
	Net Qty = A - B							10.315	73.043	83.358	
	B 312	603.235	601.350	601.000			2.235				
	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	1.500	9.903	87.291	97.194	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.850	5.612	45.267	50.878	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							15.514			
	Deduction										
	Wall	1			0.785	1.900	1.900	1.885	5.342		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								6.871			
	Net Qty = A - B							8.644	83.358	92.002	
	B 313	603.635	601.520	601.170			2.465				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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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							
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903			
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.965	6.371		97.194	
	Item No. 30 :- Refilling the excavated trenches ...									50.878	
	Total Excavation=							16.274			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.115			
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
								7.522			
	Net Qty = A - B							8.751		92.002	
	B 314	603.655	601.620	601.270			2.385			100.753	
	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	1.500	9.903		107.096	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.885	5.843		57.249	
	Item No. 30 :- Refilling the excavated trenches ...									63.092	
	Total Excavation=							15.745			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.035		5.767	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
								7.296			
	Net Qty = A - B							8.450		100.753	
	B 315	603.635	601.700	601.350			2.285			109.203	
	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	1.500	9.903		116.999	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.785	5.182		63.092	
	Item No. 30 :- Refilling the excavated trenches ...									68.274	
	Total Excavation=							15.085			
	Deduction										
	Wall	1			0.785	1.900	1.900	1.935		5.483	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
								7.012			
	Net Qty = A - B							8.073		109.203	
	B 316	603.300	601.800	601.450			1.850			117.276	
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.200	1.320		4.721	
	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	1.300	8.582		126.902	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.350	2.311		68.274	
	Item No. 30 :- Refilling the excavated trenches ...									70.585	
	Total Excavation=							12.213			
	Deduction										
	Wall	1			0.785	1.900	1.900	1.500		4.251	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
								5.780			
	Net Qty = A - B							6.434		117.276	
										123.710	



7745

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), Bancwadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Bancwadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main G.P.I.D.I pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Amangabad City.

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M/s. Khilari Infrastructure Pvt Ltd. & GECPL (Joint Venture)

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B Sewer-RCC 1.5 Dia. MH

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	B 317	603.380	601.880	601.530			1.850				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.300	1.981	6.042	8.022	
	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	1.200	7.922	135.484	143.407	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.350	2.311	70.585	72.895	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.213			
	Deduction										
	Wall	1		0.785	1.900	1.900	1.500	4.251			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								5.780			
	Net Qty = A - B							6.434	123.710	130.144	
	B 318	604.160	602.060	601.710			2.450				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.350	2.311	8.022	10.333	
	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	1.150	7.592	143.407	150.999	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.950	6.272	72.895	79.167	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.175			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.100	5.951			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								7.480			
	Net Qty = A - B							8.695	130.144	138.838	
	B 319	604.485	602.185	601.835			2.650				
	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	1.500	9.903	150.999	160.901	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.050	6.932	79.167	86.099	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.100	0.660	0.000	0.660	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.495			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.300	6.518			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.047			
	Net Qty = A - B							9.448	138.838	148.287	
	B 320	605.335	602.335	601.985			3.350				



MHJE

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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B Sewer-RCC 1.5 Dia. MH

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. 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	1.500	9.903			
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.850	12.213	160.901	170.804	
	Item No. 30 :- Refilling the excavated trenches ...								86.099	98.312	
	Total Excavation=							22.116			
	Deduction										
	Wall	1		0.785	1.900	1.900	3.000	8.502			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								10.030			
								12.086	148.287	160.373	
	B 321	605.035	602.435	602.085			2.950				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.500	3.301	10.333	13.634	
	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	1.000	6.602	170.804	177.406	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.450	9.573	98.312	107.885	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.475			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.600	7.368			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.897			
								10.579	160.373	170.951	
	B 322	604.845	602.545	602.195			2.650				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.600	3.961	13.634	17.595	
	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	0.900	5.942	177.406	183.348	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.150	7.592	107.885	115.477	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.495			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.300	6.518			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.047			
								9.448	170.951	180.399	
	B 323	604.935	602.635	602.285			2.650				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.600	3.961	17.595	21.556	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



TKSE

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

B Sewer-RCC 1.5 Dia. MH

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.900	5.942	183.348	189.289	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.150	7.592	115.477	123.069	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.495			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.300	6.518			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.047			
	Net Qty = A - B							9.448	180.399	189.848	
	B 324	605.430	602.730	602.380			3.050				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.600	3.961	21.556	25.517	
	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	0.900	5.942	189.289	195.231	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.100	7.262	123.069	130.331	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.450	2.971	0.660	3.631	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.136			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.700	7.651			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.180			
	Net Qty = A - B							10.955	189.848	200.803	
	B 325	605.610	602.810	602.460			3.150				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.500	3.301	25.517	28.818	
	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	1.000	6.602	195.231	201.833	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	130.331	140.234	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.150	0.990	0.000	0.990	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.796			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.800	7.935			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.464			
	Net Qty = A - B							11.332	200.803	212.135	
	B 81	582.760	579.935	579.585			3.175				
	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	1.500	9.903	201.833	211.736	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.960	6.338	140.234	146.572	



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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 Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewerage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/FR pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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B Sewer-RCC 1.5 Dia. MH

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.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.540	3.565		7.196	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.175	1.155	0.000	1.155	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.961			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.825	8.006			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.534			
	Net Qty = A - B							11.426			
	B 82	582.800	580.255	579.905			2.895		212.135	223.562	
	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	1.500	9.903	211.736	221.639	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.100	0.660	146.572	147.232	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.200	1.320	7.196	8.516	
	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	0.200	1.320	0.000	1.320	
	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	0.895	5.909	0.000	5.909	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.112			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.545	7.212			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.741			
	Net Qty = A - B							10.371			
	B 83	583.120	580.570	580.220			2.900		223.562	233.933	
	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	8.410	1.500	9.903	221.639	231.541	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.230	1.518	147.232	148.751	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.400	2.641	8.516	11.157	
	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	0.400	2.641	1.320	3.961	
	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	0.370	2.443	5.909	8.351	
	Item No. 30 :- Refilling the excavated trenches ...										



Page

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								6.771			
		Net Qty = A - B						7.753	264.935	272.687	
	B 87	582.985	581.185	580.835			2.150				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.200	1.320	30.138	31.459	
	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	1.300	8.582	259.929	268.512	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.650	4.291	161.789	166.080	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							14.194			
	Deduction										
	Wall	1		0.785	1.900	1.900	1.800	5.101			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								6.630			
		Net Qty = A - B						7.564	272.687	280.251	
	B 88	583.135	581.285	580.935			2.200				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.300	1.981	31.459	33.439	
	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	1.200	7.922	268.512	276.434	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.700	4.621	166.080	170.702	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							14.524			
	Deduction										
	Wall	1		0.785	1.900	1.900	1.850	5.243			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								6.771			
		Net Qty = A - B						7.753	280.251	288.004	
	B 89	583.555	581.405	581.055			2.500				
	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	1.500	9.903	276.434	286.337	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.250	1.650	170.702	172.352	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.750	4.951	14.458	19.409	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.505			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.150	6.093			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								7.622			



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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 G.P.D. pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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B Sewer-RCC 1.5 Dia. MH

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						8.883		288.004	296.887
	B 90	583.555	581.505	581.155			2.400				
	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	8.410	1.500	9.903		286.337	296.239
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.325	2.146		172.352	174.498
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.575	3.796		19.409	23.206
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							15.844			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.050		5.809	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
										7.338	
		Net Qty = A - B						8.506		296.887	305.393
	B 91	583.805	581.655	581.305			2.500				
	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	1.500	9.903		296.239	306.142
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.340	2.245		174.498	176.742
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.660	4.357		23.206	27.563
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.505			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.150		6.093	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
										7.622	
		Net Qty = A - B						8.883		305.393	314.276
	B 92	583.840	581.755	581.405			2.435				
	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	1.500	9.903		306.142	316.045
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.185	1.221		176.742	177.964
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.750	4.951		27.563	32.514
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.076			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.085		5.909	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
										7.437	
		Net Qty = A - B						8.638		314.276	322.915
	B 93	584.230	581.935	581.585			2.645				



Md. J. G.

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 R A BILL MEASURMENTS

Sewer B

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 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 B 253	593.820	590.820	590.470			3.350	500mm Jatwada			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete. (a) For Lift 0 to 1.5m	1			0.785	8.410	0.500	3.301		33.439	36.740
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. (a) For Lift 0 to 1.5m (b) For Lift 1.5m to 3.0m (c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.000	6.602		327.268	333.870
		1			0.785	8.410	1.500	9.903		180.486	190.388
		1			0.785	8.410	0.350	2.311		0.990	3.301
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=							22.116			
	Deduction										
	Wall	1			0.785	1.900	1.900	3.000		8.502	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
								10.030			
		Net Qty = A - B						12.086		342.414	354.500
	B 254	593.840	590.920	590.570			3.270				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete. (a) For Lift 0 to 1.5m	1			0.785	8.410	0.300	1.981		36.740	38.721
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. (a) For Lift 0 to 1.5m (b) For Lift 1.5m to 3.0m (c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.200	7.922		333.870	341.792
		1			0.785	8.410	1.500	9.903		190.388	200.291
		1			0.785	8.410	0.270	1.782		3.301	5.083
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=							21.588			
	Deduction										
	Wall	1			0.785	1.900	1.900	2.920		8.275	
	Raft	1			0.785	2.300	2.300	0.250		1.038	
	PCC	1			0.785	2.500	2.500	0.100		0.491	
								9.804			
		Net Qty = A - B						11.784		354.500	366.284
	B 255	593.840	591.020	590.670			3.170				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete. (a) For Lift 0 to 1.5m	1			0.785	8.410	0.300	1.981		38.721	40.701
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete. (a) For Lift 0 to 1.5m (b) For Lift 1.5m to 3.0m (c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.200	7.922		341.792	349.714
		1			0.785	8.410	1.500	9.903		200.291	210.194
		1			0.785	8.410	0.170	1.122		5.083	6.206
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=							20.928			



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

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B Sewer-RCC 1.5m MH Jatwada

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	Deduction										
	Wall	1		0.785	1.900	1.900	2.820	7.991			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.520			
	Net Qty = A - B							11.408	366.284	377.692	
	B 256	594.150	591.100	590.750			3.400				
	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	8.410	1.500	9.903	349.714	359.617	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	210.194	220.097	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.400	2.641	6.206	8.846	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.446			
	Deduction										
	Wall	1		0.785	1.900	1.900	3.050	8.643			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								10.172			
	Net Qty = A - B							12.274	377.692	389.966	
	B 257	594.040	591.170	590.820			3.220				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.600	3.961	40.701	44.662	
	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	0.900	5.942	359.617	365.559	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	220.097	230.000	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.220	1.452	8.846	10.299	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							21.258			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.870	8.133			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								9.662			
	Net Qty = A - B							11.596	389.966	401.562	
	B 258	593.390	591.220	590.870			2.520				
	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	1.500	9.903	365.559	375.462	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.020	6.734	230.000	236.733	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.637			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.170	6.149			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								7.678			
	Net Qty = A - B							8.958	401.562	410.521	
	B 259	593.560	591.260	590.910			2.650				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										



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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							
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903		375.462	385.364
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.150	7.592		236.733	244.326
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.495			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.300	6.518			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.047			
	Net Qty = A - B							9.448		410.521	419.969
	B 260	593.925	591.390	591.040			2.885				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.200	7.922		44.662	52.585
	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	0.300	1.981		385.364	387.345
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.385	9.144		244.326	253.469
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.046			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.535	7.184			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.713			
	Net Qty = A - B							10.334		419.969	430.303
	B 261	594.265	591.785	591.435			2.830				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.000	6.602		52.585	59.186
	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	0.500	3.301		387.345	390.646
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.330	8.780		253.469	262.250
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.683			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.480	7.028			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.557			
	Net Qty = A - B							10.126		430.303	440.429
	B 262	595.035	591.855	591.505			3.530				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.800	5.281		59.186	64.468
	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	0.700	4.621		390.646	395.267
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903		262.250	272.152
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.530	3.499		10.299	13.798
	Item No. 30 :- Refilling the excavated trenches ...										



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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							
	Total Excavation=						23.305				
	Deduction										
	Wall	1		0.785	1.900	1.900	3.180	9.012			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								10.540			
								12.764			
	Net Qty = A - B								440.429	453.193	
	B 263	594.315	592.045	591.695			2.620				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.500	3.301	64.468	67.769	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.000	6.602	395.267	401.869	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.120	7.394	272.152	279.546	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.297			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.270	6.433			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								7.962			
	Net Qty = A - B							9.335	453.193	462.528	
	B 264	594.695	592.195	591.845			2.850				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.500	3.301	67.769	71.070	
	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	1.000	6.602	401.869	408.471	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.350	8.912	279.546	288.459	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							18.815			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.500	7.085			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.613			
	Net Qty = A - B							10.202	462.528	472.730	
	B 265	594.315	592.485	592.135			2.180				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.500	3.301	71.070	74.371	
	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	1.000	6.602	408.471	415.073	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.680	4.489	288.459	292.948	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000	13.798	13.798	
	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	0.000	0.000	2.709	2.709	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000	37.551	37.551	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000	1.155	1.155	



19/5/20

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

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B Sewer-RCC 1.5m MH-9th

9th R A BILL MEASUREMENTS

Sewer B

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 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 BG 46.1	541.090	538.030	537.680			3.410	500mm Rahul Nagar			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete. (a) For Lift 0 to 1.5m	1			0.785	8.410	0.200	1.320		74.371	75.691
	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	1.300	8.582		415.073	423.655
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.853	5.631		292.948	298.580
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.647	4.271		37.551	41.823
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.410	2.707		1.155	3.862
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=							22.512			
	Deduction										
	Wall	1		0.785	1.900	1.900	3.060	8.672			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								10.200			
	Net Qty = A - B							12.312		480.408	492.720
	BG 46.2	542.125	538.845	538.495			3.630				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth (a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903		423.655	433.558
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903		298.580	308.482
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.630	4.159		13.798	17.957
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=							23.965			
	Deduction										
	Wall	1		0.785	1.900	1.900	3.280	9.295			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								10.824			
	Net Qty = A - B							13.141		492.720	505.860
	BG 46.3	542.715	539.155	538.805			3.910				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth (a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903		433.558	443.461
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903		308.482	318.385
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.910	6.008		17.957	23.965
	Item No. 30 :- Refilling the excavated trenches ... Total Excavation=							25.813			
	Deduction										
	Wall	1		0.785	1.900	1.900	3.560	10.089			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			



17/1/20

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 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 measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
							11.617				
		Net Qty = A - B					14.196		505.860	520.056	
	BG 46.4	542.920	539.605	539.255		3.665					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903	443.461	453.363	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	318.385	328.288	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.665	4.390	23.965	28.355	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						24.196				
	Deduction										
	Wall	1			0.785	1.900	1.900	3.315			
	Raft	1			0.785	2.300	2.300	0.250			
	PCC	1			0.785	2.500	2.500	0.100			
								10.923			
		Net Qty = A - B					13.273		520.056	533.329	
	BG 46.5	544.030	539.885	539.535		4.495					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.500	9.903	453.363	463.266	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.500	9.903	328.288	338.191	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	1.495	9.870	28.355	38.225	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						29.675				
	Deduction										
	Wall	1			0.785	1.900	1.900	4.145	11.746		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								13.275			
		Net Qty = A - B					16.400		533.329	549.729	
	BG 46.11	544.265	541.985	541.635		2.630					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.200	1.320	75.691	77.011	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.300	8.582	463.266	471.849	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.130	7.460	338.191	345.651	
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000	38.225	38.225	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						17.363				
	Deduction										
	Wall	1			0.785	1.900	1.900	2.280	6.461		
	Raft	1			0.785	2.300	2.300	0.250	1.038		
	PCC	1			0.785	2.500	2.500	0.100	0.491		
								7.990			
		Net Qty = A - B					9.373		549.729	559.102	
	BG 46.12	543.855	542.125	541.775		2.080					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.200	1.320	77.011	78.332	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	1.000	6.602	471.849	478.450	
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.580	3.829	345.651	349.480	



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

Book No. :- 115
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B Sewer-RCC 1.5m MH-9th

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			0.785	8.410	0.300	1.981		2.709	4.690
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							13.732			
	Deduction										
	Wall	1		0.785	1.900	1.900	1.730	4.903			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								6.431			
	Net Qty = A - B							7.300		559.102	566.403
	BG 46.13	544.675	542.305	541.955			2.720				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.200	1.320		78.332	79.652
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.800	5.281		478.450	483.732
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	1.220	8.054		349.480	357.534
	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	0.500	3.301		4.690	7.990
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							17.957			
	Deduction										
	Wall	1		0.785	1.900	1.900	2.370	6.716			
	Raft	1		0.785	2.300	2.300	0.250	1.038			
	PCC	1		0.785	2.500	2.500	0.100	0.491			
								8.245			
	Net Qty = A - B							9.712		566.403	576.115
	BG 46.14	544.915	543.365	543.015			1.900				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	8.410	0.200	1.320		79.652	80.973
	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	0.800	5.281		483.732	489.013
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.400	2.641		357.534	360.175
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000		38.225	38.225
	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	0.500	3.301		7.990	11.291
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000		41.823	41.823
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000		3.862	3.862
	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	0.000	0.000		2.641	2.641
	(b) For Lift 1.5m to 3.0m	1			0.785	8.410	0.000	0.000		9.771	9.771
	(c) For Lift 3.0m to 4.5m	1			0.785	8.410	0.000	0.000		0.660	0.660
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										



TH 50

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.

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

9th RA BILL MEASUREMENTS

Sewer "B"

A	Dia-1800MM								
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Item No. : 24 Providing and constructing on sewer .R.C.C circular manhole 2.5 m dia and up to a depth of 9 M

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 9 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		CH1000.60	BG 14	536.390	529.990	6.40	-2.60		
2		CH1065.20	BG 15	536.465	530.465	6.00	-3.00		
3		CH1152.30	BG 16	536.850	530.850	6.00	-3.00		
4		CH1236.90	BG 17	537.580	531.480	6.10	-2.90		
5		CH1330.45	BG 18	537.630	531.630	6.00	-3.00		
6		CH1402.55/ CH1571	BG19/23	538.180	532.080	6.10	-2.90		
7		CH1643.10	BG 24	539.730	532.150	7.58	-1.42		
8		CH1725.20	BG 25	539.520	532.440	7.08	-1.92		
9		CH1802.30	BG 26	540.100	532.520	7.58	-1.42		
10		CH1929.40	BG 27	540.300	532.920	7.38	-1.62		
11		CH1966.50	BG 28	540.280	532.980	7.30	-1.70		
12		CH2061.10	BG 29	540.960	533.110	7.85	-1.15		
13		CH2125.70	BG 30	541.310	533.460	7.85	-1.15	-46.13	-92.26
14		CH2207.80/ CH2205.7	BG 31	541.630	533.830	7.80	-1.20		
15		CH2265.30	BG 32	541.570	534.370	7.20	-1.80		
16		CH2364.90	BG 33	541.730	534.530	7.20	-1.80		
17		CH2417.00	BG 34	541.995	534.695	7.30	-1.70		
18		CH 2494.10/CH 2497.00	BG 35	541.530	534.930	6.60	-2.40		
19		CH2601.60	BG 36	541.627	535.027	6.60	-2.40		
20		CH2656.20	BG 37	542.040	535.140	6.90	-2.10		
21		CH2748.30	BG 38	542.300	535.400	6.90	-2.10		
22		CH2835.40/ CH2792.95	BG39/45	541.780	535.630	6.15	-2.85		

B	At Rahul Nagar-500mm Dia								
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Extra Item No. 1: Construction of RCC circular Manhole of 1.5m dia & 3.5m depth

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 3.5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		66.20	BG 46.1	542.880	538.030	4.85	1.35		
2		159.90	BG 46.2	543.845	538.845	5.00	1.50		
3		238.60	BG 46.3	544.005	539.155	4.85	1.35		
4		304.80	BG 46.4	544.455	539.605	4.85	1.35		
5		326.00	BG 46.5	544.885	539.885	5.00	1.50	11.05	22.10
6		578.70	BG 46.11	546.485	541.985	4.50	1.00		
7		619.90	BG 46.12	546.625	542.125	4.50	1.00		
8		678.60	BG 46.13	546.805	542.305	4.50	1.00		
9		727.30	BG 46.14	547.865	543.365	4.50	1.00		



Page

Development of Underground Sewerage Collection system for Zone I to VI
 Constructing, Erecting, Testing and Commissioning of Sewage Treatment
 modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth
 Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission
 pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward
 CIDCO (Airport). Providing, lowering, laying jointing and testing rising main
 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 Vencture)

B Sewer-MANHOLE

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C Jatwada-500mm									
Extra Item No. 1: Construction of RCC circular Manhole of 1.5m dia & 3.5m depth									
Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 3.5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		11535.0	B253	595.120	590.820	4.30	0.80	5.34	10.68
2		11586.2	B254	595.320	590.920	4.40	0.90		
3		11647.4	B255	595.620	591.020	4.60	1.10		
4		11703.6	B256	595.020	590.820	4.20	0.70		
5		11777.3	B257	595.320	591.170	4.15	0.65		
6		11836.0	B258	595.520	591.220	4.30	0.80		
7		11902.2	B259	595.460	591.260	4.20	0.70		
8		11985.9	B260	595.640	591.390	4.25	0.75		
9		12039.6	B261	595.045	591.785	3.26	-0.24		
10		12098.3	B262	595.105	591.855	3.25	-0.25		
11		12149.5	B263	595.325	592.045	3.28	-0.22		
12		12210.7	B264	595.545	592.195	3.35	-0.15		
13		12241.9	B265	595.785	592.485	3.30	-0.20		
									10.68

D HARSUL 400mm									
Extra Item No. 1: Construction of RCC circular Manhole of 1.5m dia & 3.5m depth									
Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 3.5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		14285.40	B308	603.120	599.870	3.25	-0.25	8.02	16.04
2		14354.10	B309	603.320	600.000	3.32	-0.18		
3		14572.70	B 312	605.650	601.350	4.30	0.80		
4		14608.90	B 313	605.620	601.520	4.10	0.60		
5		14650.10	B 314	605.720	601.620	4.10	0.60		
6		14691.30	B 315	604.900	601.700	3.20	-0.30		
7		14742.50	B 316	604.950	601.800	3.15	-0.35		
8		14784.30	B 317	605.080	601.880	3.20	-0.30		
9		14858.00	B 318	606.360	602.060	4.30	0.80		
10		14911.70	B 319	606.735	602.185	4.55	1.05		
11		14977.90	B 320	606.785	602.335	4.45	0.95		
12		15019.10	B 321	606.885	602.435	4.45	0.95		
13		15060.30	B 322	607.045	602.545	4.50	1.00		
14		15099.00	B 323	607.185	602.635	4.55	1.05		
15		15140.20	B 324	607.080	602.730	4.35	0.85		
16		15176.40	B 325	607.060	602.810	4.25	0.75		
									16.04



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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/MI 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 Vencture)

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

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B Sewer-MANHOLE

E BIED-KA-MAQBARA 600MM DIA.									
Extra Item No. 1: Construction of RCC circular Manhole of 1.5m dia & 3.5m depth									
Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	MTL	IL	Depth	Depth Difference than 3.5 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		9223.15	B 81	585.635	579.935	5.70	2.20	21.19	42.38
2		9324.65	B 82	586.125	580.255	5.87	2.37		
3		9411.15	B 83	586.200	580.570	5.63	2.13		
4		9465.15	B 84	585.950	580.750	5.20	1.70		
5		9536.65	B 85	586.160	580.960	5.20	1.70		
6		9593.15	B 86	586.260	581.060	5.20	1.70		
7		9672.15	B 87	585.835	581.185	4.65	1.15		
8		9748.65	B 88	585.945	581.285	4.66	1.16		
9		9840.15	B 89	586.105	581.405	4.70	1.20		
10		9919.15	B 90	586.305	581.505	4.80	1.30		
11		9995.65	B 91	586.345	581.655	4.69	1.19		
12		10022.15	B 92	586.395	581.755	4.64	1.14		
13		10091.15	B 93	586.385	581.935	4.45	0.95		
14		10182.65	B 94	587.010	582.210	4.80	1.30		
									42.38

Sr.No.	Reference (MB no. & Page no.)	Chainage	MH No	DETAILS			Rebate up to Depth of 2.0 mtr For per 50 cm	Total Rebate Qty for 50 cm
				No				
				MTL	IL	DEPTH		
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								
F Jatwada Branch-400mm &300mm.								
1		CH86.20	B 253.1	593.520	591.420	2.100	2.000	0.100
2		CH107.40	B 253.2	593.750	591.550	2.200	2.000	0.200
3		CH143.60	B 253.3	593.650	591.650	2.000	2.000	0.000
4		CH199.80	B 253.4	593.500	591.800	1.700	2.000	-0.300
5		CH296.00	B 253.5	593.550	592.050	1.500	2.000	-0.500
6		CH312.20	B 253.6	593.370	592.070	1.300	2.000	-0.700
7		CH328.40	B 253.7	593.600	592.100	1.500	2.000	-0.500
8		CH339.60	B 253.8	593.740	592.140	1.600	2.000	-0.400
9		CH363.30	B 253.9	593.500	592.200	1.300	2.000	-0.700
TOTAL							-2.800	-5.60



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone VIII. 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 GSP/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 Vencture)

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B Sewer-Dewatering RA9

9th R A BILL MEASUREMENTS
Sewer "B" - Dewatering

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
B - 1800mm Golwadi							
1	18/01/2016	15	1	8:00	10:00	2:00	30:00:00
		15	1	12:00	14:00	2:00	30:00:00
		15	1	15:00	16:00	1:00	15:00:00
2	19/01/2016	15	1	9:00	12:00	3:00	45:00:00
		15	1	14:00	16:00	2:00	30:00:00
3	21/01/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	16:00	2:00	30:00:00
4	23/01/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	10:00	12:00	2:00	30:00:00
		15	1	14:00	16:00	2:00	30:00:00
5	25/01/2016	15	1	9:00	12:00	3:00	45:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
6	28/01/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	10:00	12:00	2:00	30:00:00
		15	1	14:00	16:00	2:00	30:00:00
7	02/02/2016	15	1	9:00	12:00	3:00	45:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
8	04/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	16:00	2:00	30:00:00
		15	1	17:00	18:00	1:00	15:00:00
9	05/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
10	06/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	16:00	2:00	30:00:00
		15	1	17:00	18:00	1:00	15:00:00
11	07/02/2016	15	1	9:00	12:00	3:00	45:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
12	08/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
13	10/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	16:00	2:00	30:00:00
		15	1	17:00	18:00	1:00	15:00:00
14	11/02/2016	15	1	8:00	10:00	2:00	30:00:00
		15	1	12:00	13:00	1:00	15:00:00



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

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Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
15	12/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
16	13/02/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	10:00	12:00	2:00	30:00:00
		15	1	14:00	16:00	2:00	30:00:00
17	14/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
18	15/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
19	16/02/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	10:00	12:00	2:00	30:00:00
		15	1	14:00	16:00	2:00	30:00:00
20	19/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
21	20/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
22	21/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
23	23/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
24	24/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
25	25/02/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	10:00	12:00	2:00	30:00:00
		15	1	14:00	16:00	2:00	30:00:00
26	26/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
27	27/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
28	28/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00



Handwritten signature or initials.

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

Book No. :- 122
Page No. :-

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

Page 3 of 10

B Sewer-Dewatering RA9

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
29	29/02/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
30	01/03/2016	15	1	7:30	12:30	5:00	75:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
31	02/03/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
32	03/03/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
33	04/03/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
34	05/03/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
35	06/03/2016	15	1	8:00	11:00	3:00	45:00:00
		15	1	15:00	18:00	3:00	45:00:00
36	07/03/2016	15	1	7:30	11:30	4:00	60:00:00
		15	1	14:00	17:00	3:00	45:00:00
37	08/03/2016	15	1	8:00	9:00	1:00	15:00:00
		15	1	10:00	11:00	1:00	15:00:00
		15	1	12:00	13:00	1:00	15:00:00
38	09/03/2016	15	1	7:00	9:00	2:00	30:00:00
		15	1	11:00	13:00	2:00	30:00:00
		15	1	13:00	14:00	1:00	15:00:00
39	10/03/2016	15	1	8:00	10:00	2:00	30:00:00
		15	1	11:00	13:00	2:00	30:00:00
		15	1	15:00	18:00	3:00	45:00:00
40	11/03/2016	15	1	8:00	10:00	2:00	30:00:00
		15	1	11:00	13:00	2:00	30:00:00
		15	1	15:00	18:00	3:00	45:00:00
41	13/03/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
42	14/03/2016	15	1	7:00	12:00	5:00	75:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
43	15/03/2016	15	1	7:30	12:30	5:00	75:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00



Handwritten signature and initials.

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

Book No. 123
Page No. :-

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

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B Sewer-Dewatering RA9

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
44	16/03/2016	15	1	8:00	10:00	2:00	30:00:00
		15	1	11:00	14:00	3:00	45:00:00
		15	1	15:00	17:00	2:00	30:00:00
45	17/03/2016	15	1	8:00	12:00	4:00	60:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
46	18/03/2016	15	1	7:00	12:00	5:00	75:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	18:00	2:00	30:00:00
47	19/03/2016	15	1	7:30	12:30	5:00	75:00:00
		15	1	14:00	15:00	1:00	15:00:00
		15	1	16:00	17:00	1:00	15:00:00
48	20/03/2016	15	1	8:00	10:00	2:00	30:00:00
		15	1	11:00	13:00	2:00	30:00:00
		15	1	15:00	18:00	3:00	45:00:00
Sub Total						301:00:00	4515:00:00
							4515.000
B -600mm (Part - II)							
1	16/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
2	17/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
3	18/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
4	19/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
5	20/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
6	21/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
7	22/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
8	23/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00



Handwritten signature or initials.

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.

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

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
9	24/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
10	25/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
11	26/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
12	27/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
13	30/11/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
14	01/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
15	03/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
16	04/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
17	05/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
18	07/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
19	08/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
20	09/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
21	10/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
22	11/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00



Handwritten signature or initials.

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.

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
23	12/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
24	14/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
25	15/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
26	16/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
27	17/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
28	18/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
29	19/12/2015	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
30	10/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	14:00	16:00	2:00	48:00:00
31	17/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
		24	1	13:00	14:00	1:00	24:00:00
32	18/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	14:00	3:00	72:00:00
33	19/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	14:00	3:00	72:00:00
34	20/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	12:00	14:00	2:00	48:00:00
35	21/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	12:00	14:00	2:00	48:00:00
36	22/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	12:00	14:00	2:00	48:00:00
37	23/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	12:00	14:00	2:00	48:00:00
38	24/02/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	12:00	14:00	2:00	48:00:00
39	25/02/2016	24	1	8:00	14:00	6:00	144:00:00



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

Book No. 126
Page No. :-

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
40	27/02/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
41	28/02/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
42	29/02/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
43	01/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
44	02/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
45	03/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
46	04/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
47	05/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
48	07/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
49	08/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
50	10/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
51	11/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
52	12/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
53	13/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
54	14/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
55	15/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
56	16/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
57	17/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
58	18/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
59	19/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
60	21/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
61	22/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00



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Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
62	23/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
63	24/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
64	25/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
65	26/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
66	28/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
67	29/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
68	30/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
69	31/03/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	10:00	12:00	2:00	48:00:00
70	01/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
71	02/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
72	04/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
73	05/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
74	06/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
75	07/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
76	08/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
77	09/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00
78	10/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
79	11/04/2016	24	1	9:00	10:00	1:00	24:00:00
		24	1	11:00	12:00	1:00	24:00:00
80	12/04/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	11:00	12:00	1:00	24:00:00
81	13/04/2016	24	1	8:00	9:00	1:00	24:00:00
		24	1	11:00	12:00	1:00	24:00:00
82	14/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	12:00	1:00	24:00:00
83	15/04/2016	24	1	8:00	10:00	2:00	48:00:00
		24	1	11:00	13:00	2:00	48:00:00



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Contracting, Erecting, Testing and Commissioning of Sewage Treatment technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth CIDCO (Airport), Construction, Erection, Testing and Commissioning at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward CIDCO (Airport), Providing, lowering, laying jointing and testing rising main

B Sewer-Dewatering RA9

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
				8:00	10:00	2:00	48:00:00
84	16/04/2016	24	1	11:00	13:00	2:00	48:00:00
		24	1	8:00	10:00	2:00	48:00:00
85	17/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1	8:00	10:00	2:00	48:00:00
86	18/04/2016	24	1	11:00	13:00	2:00	48:00:00
		24	1	8:00	10:00	2:00	48:00:00
87	19/04/2016	24	1	11:00	13:00	2:00	48:00:00
		24	1	8:00	10:00	2:00	48:00:00
88	20/04/2016	24	1	11:00	13:00	2:00	48:00:00
		24	1	8:00	10:00	2:00	48:00:00
89	21/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1	8:00	10:00	2:00	48:00:00
90	22/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1	8:00	10:00	2:00	48:00:00
91	23/04/2016	24	1	11:00	13:00	2:00	48:00:00
		24	1	8:00	10:00	2:00	48:00:00
92	24/04/2016	24	1	11:00	13:00	2:00	48:00:00
		24	1	8:00	10:00	2:00	48:00:00
93	25/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1	8:00	10:00	2:00	48:00:00
94	26/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1	8:00	10:00	2:00	48:00:00
95	27/04/2016	24	1	11:00	13:00	2:00	48:00:00
		24	1	8:00	10:00	2:00	48:00:00
96	28/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1	8:00	10:00	2:00	48:00:00
97	29/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1	8:00	10:00	2:00	48:00:00
98	30/04/2016	24	1	11:00	12:00	1:00	24:00:00
		24	1				
Sub Total						380:00:00	9120:00:00
B Sewer (Jatwada) -500mm							
1	06/02/2016	15	1	8:00	10:30	2:30	37:30:00
		15	1	13:15	15:25	2:10	32:30:00
		15	1	16:50	17:50	1:00	15:00:00
2	08/02/2016	15	1	8:20	11:10	2:50	42:30:00
		15	1	12:45	13:50	1:05	16:15:00
		15	1	14:45	16:20	1:35	23:45:00
		15	1	17:20	18:30	1:10	17:30:00
3	09/02/2016	15	1	8:35	10:45	2:10	32:30:00
		15	1	12:40	14:10	1:30	22:30:00
		15	1	15:45	17:30	1:45	26:15:00



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

Book No. 129
Page No. :-

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

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

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B Sewer-Dewatering RA9

Sr.No.	Date	Pump Capacity in Hp	No.of Pumps	Time		Total Hrs	Bhp/Hr
				From	To		
4	10/02/2016	15	1	7:50	10:20	2:30	37:30:00
		15	1	11:45	13:20	1:35	23:45:00
		15	1	15:30	17:10	1:40	25:00:00
Sub Total						23:30:00	352:30:00
							352.500
Total							13987.500



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

Book No. :-
Page No. :-

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

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

Date of Measurement	Part	Sewer 'B'												Total up to Date
		ITEM 1			ITEM 2			ITEM 3		ITEM 4				
		MB/PG	0-1.5	1.5-3.0	3.0-4.5	0-1.5	1.5-3.0	3.0-4.5	0-1.5	0-1.5	0-1.5	1.5-3.0	3.0-4.5	
1			11,061.938	4,503.417	188.237	999.359	1,399.956	269.758	898.899	605.664	448.703	149.607		
2			489.013	360.175	38.225	11,291	41.823	3,862	80.973	2,641	9,771	0.660		
		Total	11550.951	4863.592	226.462	1010.650	1441.778	273.620	979.872	608.305	458.474	150.267		10

B Sewer Quantity Node Abstract

1 of 3







