

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

DRG/HDSCMT/2014/184 Date 01.07.2014

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Nawbpura Mondha Road, Rajabazar, MB-450mm

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			13.54	1.250	1.050	17.771		142.145	159.916
	(b) For Lift 1.5m to 3.0m	1			13.54	1.650	0.987	22.039		112.401	134.441
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			13.54	1.250	0.150	2.539		38.743	41.282
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			13.54	1.250	0.300	5.078		46.418	51.496
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.54	1.250	0.200	3.385		30.308	33.693
	Item No.: 11 Disposal of excavated material including loading the excavated material in trucks / tractors							7.211		64.567	71.779
	Item No.17 (b) :- Lowering & Laying RCC NP3 class pipe of 450mm Dia	1			15.0			15.000		138.750	153.750
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							47.427			
	Deduction										
	pipe area	1		0.785	13.54	0.600	0.600	3.83			
	soling							0.00			
	PCC							0.00			
	Murum bedding							3.39			
	Total = B							7.21			
	Net Qty = A - B							40.22		275.140	315.356



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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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Nawbura Mondha Road, Rajabazar, Measurement

9th R A BILL MEASUREMENTS DWG PIPE " NAWABPURA, MONDHA ROAD, RAJABAZAR "

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	PVC - 110 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.110+0.5=0.61m										
	For Lift 1.5 to 3.00m- 0.11+0.5+0.4=1.01m										
	For Lift 3.0 to 4.5m- 0.11+0.5+0.4+0.4=1.41m										
	NP1.12 TO NP 1.12.1										
	CH0.00	581.667	580.622	580.522			1.145	1.103			
	CH5.00	581.760	580.800	580.700			1.060				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.14	0.610	0.653	1.250		159.916	161.166
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.14	0.610	0.150	0.287		41.282	41.569
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.14	0.610	0.300	0.575		51.496	52.070
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.64	0.610	0.100	0.222		33.693	33.915
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.257		71.779	72.035
	Extra Item No. 9.6 (a) :- Lowering & Laying of PVC pipe of 110mm Dia	1			4.10			4.100		0.000	4.100
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.112			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	3.64	0.110	0.110	0.03			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.22			
								0.26			
	Net Qty = A - B							1.86		315.36	317.21
	PVC - 160 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.160+0.5=0.66m										
	For Lift 1.5 to 3.00m- 0.16+0.5+0.4=1.06m										



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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), Basewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Basewadi, 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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Nawbura Mondha Road, Rajabazar, Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	For Lift 3.0 to 4.5m- 0.16+0.5+0.4+0.4=1.46m NP1.11 TO NP 1.11.1										
	CH0.00	582.002	580.892	580.792			1.210	1.155			
	CH6.00	582.100	581.100	581.000			1.100				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.67	0.660	0.705	2.173		161.166	163.339
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.67	0.660	0.150	0.462		41.569	42.032
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.67	0.660	0.300	0.925		52.070	52.995
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.17	0.660	0.100	0.341		33.915	34.256
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.445		72.035	72.480
	Extra Item No.9.6(a) :- Lowering & Laying of PVC pipe of 160mm Dia	1			5.40			5.400		0.000	5.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.560			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	5.17	0.160	0.160	0.10			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.34			
								0.45			
		Net Qty = A - B						3.11		317.21	320.33
	DWC - 315 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	NP1.11 TO NP 1.11.2										
	CH0.00	582.002	580.892	580.792			1.210	1.255			
	CH1.50	582.150	580.950	580.850			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.805	0.000		163.339	163.339



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Nawbura Mondha Road, Rajabazar, Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.150	0.000		42.032	42.032
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.300	0.000		52.995	52.995
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.00	0.815	0.100	0.000		34.256	34.256
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.000		72.480	72.480
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			0.44			0.440		0.000	0.440
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.000			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	0.00	0.315	0.315	0.00			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.00			
								0.00			
	Net Qty = A - B							0.00		320.33	320.33
	NP1.11 TO NP 1.11.3										
	CH0.00	582.002	580.792	580.692			1.310	1.295			
	CH1.20	582.100	580.920	580.820			1.280				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.845	0.000		163.339	163.339
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.150	0.000		42.032	42.032
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.300	0.000		52.995	52.995
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.00	0.815	0.100	0.000		34.256	34.256
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.000		72.480	72.480
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			0.14			0.140		0.440	0.580



Signature

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Nawbura Mondha Road, Rajabazar, Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.000			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	0.00	0.315	0.315	0.00			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.00			
								0.00			
		Net Qty = A - B						0.00		320.33	320.33
	PVC - 160 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.160+0.5=0.66m										
	For Lift 1.5 to 3.00m-										
	0.16+0.5+0.4=1.06m										
	For Lift 3.0 to 4.5m-										
	0.16+0.5+0.4+0.4=1.46m										
	NP1.10 TO NP 1.10.3										
	CH0.00	582.282	581.052	580.952			1.330	1.295			
	CH2.90	582.390	581.230	581.130			1.260				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.04	0.660	0.845	0.580		163.339	163.919
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.04	0.660	0.150	0.103		42.032	42.134
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.04	0.660	0.300	0.206		52.995	53.201
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.54	0.660	0.100	0.102		34.256	34.357
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.133		72.480	72.613
	Extra Item No. 9.6(a) :- Lowering & Laying of PVC pipe of 160mm Dia	1			2.00			2.000		5.400	7.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.889			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	1.54	0.160	0.160	0.03			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.10			
								0.13			



Signature

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

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Nawbura Mondha Road, Rajabazar, Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		GL	No IL	EX.L	L	B	D		Page	Quantity	
								0.76		320.33	321.08
	RCC 250mm Dia										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.25+0.06+0.06+0.5=0.87m										
	From Bottom Lift 1.50m-3.00m- 0.25+0.06+0.06+0.5+0.4=1.27m										
	From Bottom Lift 3.00m-4.50m- 0.25+0.06+0.06+0.5+0.4+0.4=1.67m										
	NP1.10										
	CH0.00	582.282	580.552	580.352			1.93	1.680			
	CH11.05	582.542	581.312	581.112			1.43				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.74	1.270	1.050	11.655		163.919	175.574
	(b) For Lift 1.5m to 3.0m	1			8.74	0.870	0.180	1.369		134.441	135.809
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.74	1.270	0.150	1.665		42.134	43.799
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.74	1.270	0.300	3.330		53.201	56.531
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.74	0.870	0.200	1.521		34.357	35.878
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.180		72.613	74.793
	Extra Item No.9.4 (b):- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			10.0			10.000		0.000	10.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							18.018			
	Deduction										
	pipe area	1		0.785	8.74	0.310	0.310	0.659			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.521			
	Total = B							2.180			
	Net Qty = A - B							15.838		321.08	336.92
	CH11.05	582.542	581.312	581.112			1.43	1.370			
	CH16.50	582.544	581.435	581.235			1.31				



Signature

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Nawbura Mondha Road, Rajabazar, Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No	EX.L	L	B	D		Page	Quantity	
			IL								
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			4.47	0.870	0.920	3.576		175.574	179.150
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.47	0.870	0.150	0.583		43.799	44.383
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.47	0.870	0.300	1.167		56.531	57.697
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.47	0.870	0.200	0.778		35.878	36.656
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond							1.115		74.793	75.908
	Extra Item No.9.4 (b):- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			5.00			5.000		10.000	15.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							5.326			
	Deduction										
	pipe area	1		0.785	4.47	0.310	0.310	0.337			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.778			
	Total = B							1.115			
								4.211		336.92	341.13
	SW PIPE - 250 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.250+0.02+0.02+0.5=0.79m										
	For Lift 1.5 to 3.00m- 0.250+0.02+0.02+0.5+0.4=1.19 m										
	For Lift 3.0 to 4.5m- 0.250+0.5+0.02+0.02+0.4+0.4= 1.59m										
	CH16.50	582.544	581.435	581.335			1.209				
	CH20.80	582.547	581.542	581.442			1.105	1.157			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.3	0.790	0.707	1.843		179.150	180.993



Signature

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Nawbura Mondha Road, Rajabazar, Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.3	0.790	0.150	0.391		44.383	44.774
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.3	0.790	0.300	0.782		57.697	58.480
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.6	0.790	0.100	0.284		36.656	36.940
	Item No. : 11 Transportation of earth Transportation charges							0.490		75.908	76.398
	Extra Item No.9.2(c) :- Lowering & Laying of SW pipe of 250mm Dia	1			3.85			3.850		0.000	3.850
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.016			
	Deduction of 250mm dia SW pipe										
	pipe area	1.00		0.785	3.60	0.270	0.270	0.21			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.28			
								0.49			
	Net Qty = A - B							2.53		341.13	343.66
	DWC - 200mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m- 0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m- 0.200+0.5+0.4=1.100m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.4+0.4=1.500m										
	NP1.9 TO NP 1.9.1										
	CH0.00	582.572	581.392	581.292			1.280	1.240			
	CH1.20	582.600	581.500	581.400			1.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.0	0.700	0.790	0.000		180.993	180.993
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.0	0.700	0.150	0.000		44.774	44.774
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.0	0.700	0.300	0.000		58.480	58.480
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.5	0.700	0.100	0.035		36.940	36.975



Signature

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 ST

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Nawbpura Mondha Road, Rajabazar. Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No	EX.L	L	B	D		Page	Quantity	
			IL								
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.051		76.398	76.449
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			0.14			0.140		0.000	0.140
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.000			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	0.50	0.200	0.200	0.02			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.04			
								0.05			
								0.00		343.66	343.66
	PVC - 160 mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.160+0.5=0.66m										
	For Lift 1.5 to 3.00m-										
	0.16+0.5+0.4=1.06m										
	For Lift 3.0 to 4.5m-										
	0.16+0.5+0.4+0.4=1.46m										
	NP1.8 TO NP 1.8.1										
	CH0.00	582.682	581.322	581.222			1.460				
	CH1.20	582.760	581.500	581.400			1.360	1.410			
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			0.00	0.660	0.960	0.000		180.993	180.993
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.660	0.150	0.000		44.774	44.774
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.660	0.300	0.000		58.480	58.480
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.50	0.660	0.100	0.033		36.975	37.008
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.043		76.449	76.492
	Extra Item No.9.6 :- Lowering & Laying of PVC pipe of 160mm Dia	1			0.14			0.140		7.400	7.540
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.000			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	0.50	0.160	0.160	0.01			



Signature

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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Nawbura Mondha Road, Rajabazar, Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.03			
								0.04			
								0.00			
	DWC - 315 mm Dia									343.66	343.66
	Width of Trench -										
	For Lift 0 to 1.5m-										
	0.315+0.5=0.815m										
	For Lift 1.5 to 3.0m-										
	0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m-										
	0.315+0.5+0.4+0.4=1.615m										
	NP1.1 TO NP 1.1.1										
	CH0.00	583.562	581.942	581.842			1.720				
	CH1.00	583.680	582.200	582.100			1.580	1.650			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	1.050	0.000		180.993	180.993
	(b) For Lift 1.5m to 3.0m	1			0.00	0.815	0.150	0.000		135.809	135.809
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.150	0.000		44.774	44.774
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.00	0.815	0.300	0.000		58.480	58.480
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.50	0.815	0.100	0.041		37.008	37.049
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.080		76.492	76.572
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia									0.140	0.140
	Item No. 13 :- (d) Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			0.17			0.170		0.580	0.750
	Extra Item No.9.6 :- Lowering & Laying of PVC pipe of 110mm Dia									4.100	4.100
	Extra Item No.9.6 :- Lowering & Laying of PVC pipe of 160mm Dia									7.540	7.540
	Extra Item No.9.2 :- Lowering & Laying of SW pipe of 250mm Dia									3.850	3.850
	Extra Item No.9.4 Lowering & Laying RCC NP3 class pipe of 250mm Dia									15.000	15.000



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

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. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.000			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	0.50	0.315	0.315	0.04			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.04			
								0.08			
		Net Qty = A - B						0.00		343.66	343.66
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.037						0.037



Im

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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Nawabpura Mondha Road, Rajabazar, MH Excavation

9th RA BILL MEASUREMENTS (Excavation of Manhole)

BRANCH SEWER AT "NAWABPURA, MONDHA ROAD, RAJABAZAR"

BRANCH SEWER AT " NAWABPURA, MUNDHA ROAD, RAJASTHAN											
Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Excavation of Chamber - For 1.20m dia Manhole (upto a depth of 2.0m)- 1.20+0.23+0.23+0.5+0.5=2.66m										
	Area for Manhole=2.66*2.66=7.076m										
	NP1.13										
	CH0.00	581.502	579.932	579.482			2.020				
	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	1.050	5.832		0.000	5.832
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.520	2.888		0.000	2.888
	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	0.150	0.833		0.000	0.833
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		0.000	1.666
	Item No. : 11 Transportation of earth Transportation charges							3.711		0.000	3.711
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.220			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.570	2.381			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.711			
	Net Qty = A - B							7.509		0.000	7.509
	NP1.12										
	CH6.20	581.667	580.022	579.572			2.095				
	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	1.050	5.832		5.832	11.664
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.595	3.305		2.888	6.193
	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	0.150	0.833		0.833	1.666
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		1.666	3.333
	Item No. : 11 Transportation of earth Transportation charges							3.824		3.711	7.535
	Item No. 30 :- Refilling the excavated trenches										
	Total Excavation=							11.636			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.645	2.495			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.824			
	Net Qty = A - B							7.812		7.509	15.32
	NP1.11										
	CH24.90	582.002	580.292	579.842			2.160				



Signature

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Nawbura Mondha Road, Rajabazar, MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	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	1.050	5.832		11.664	17.496
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.660	3.666		6.193	9.859
	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	0.150	0.833		1.666	2.499
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		3.333	4.999
	Item No. : 11 Transportation of earth Transportation charges							3.923		7.535	11.458
	Item No. 30 :- Refilling the excavated trenches										
	Total Excavation=							11.997			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.710	2.594			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.923			
	Net Qty = A - B							8.074		15.321	23.395
	NP1.10										
	CH38.60	582.282	580.552	580.102			2.180				
	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	1.050	5.832		17.496	23.328
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.680	3.777		9.859	13.636
	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	0.150	0.833		2.499	3.333
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		4.999	6.665
	Item No. : 11 Transportation of earth Transportation charges							3.953		11.458	15.412
	Item No. 30 :- Refilling the excavated trenches										
	Total Excavation=							12.108			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.730	2.624			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.953			
	Net Qty = A - B							8.155		23.395	31.550
	NP1.9										
	CH67.30	582.572	580.792	580.342			2.230				
	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	1.050	5.832		23.328	29.160
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.730	4.055		13.636	17.691
	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	0.150	0.833		3.333	4.166



Signature

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Nawbura Mondha Road, Rajabazar, MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	HL	EX.L							
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		6.665	8.332
	Item No. : 11 Transportation of earth Transportation charges							4.029		15.412	19.441
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.386			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.780	2.700			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.029			
	Net Qty = A - B							8.357		31.550	39.907
	NP1.8										
	CH74.75	582.682	580.922	580.472			2.210				
	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	1.050	5.832		29.160	34.992
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.710	3.944		17.691	21.634
	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	0.150	0.833		4.166	4.999
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		8.332	9.998
	Item No. : 11 Transportation of earth Transportation charges							3.999		19.441	23.440
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.275			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.760	2.669			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								3.999			
	Net Qty = A - B							8.276		39.907	48.184
	NP1.7										
	CH88.45	582.822	581.032	580.582			2.240				
	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	0.750	4.166		34.992	39.158
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.740	4.110		21.634	25.744
	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	0.450	2.499		4.999	7.498
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		9.998	11.664
	Item No. : 11 Transportation of earth Transportation charges							4.044		23.440	27.484
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.442			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.790	2.715			



Signature

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Nawbura Mondha Road, Rajabazar, MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.044			
				Net Qty = A - B				8.397		48.184	56.581
	NP1.6										
	CH99.65	582.872	581.072	580.622			2.250				
	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	0.750	4.166		39.158	43.324
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.750	4.166		25.744	29.910
	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	0.450	2.499		7.498	9.998
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		11.664	13.330
	Item No. : 11 Transportation of earth Transportation charges							4.060		27.484	31.544
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.497			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.800	2.730			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.060			
				Net Qty = A - B				8.438		56.581	65.019
	NP1.5										
	CH103.35	582.952	581.082	580.632			2.320				
	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	0.700	3.888		43.324	47.212
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.820	4.555		29.910	34.465
	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	0.450	2.499		9.998	12.497
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.350	1.944		13.330	15.274
	Item No. : 11 Transportation of earth Transportation charges							4.166		31.544	35.709
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.886			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.870	2.836			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.166			
				Net Qty = A - B				8.720		65.019	73.739
	NP1.4										
	CH114.55	583.182	581.102	580.652			2.530				
	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	0.700	3.888		47.212	51.100



Signature

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

Book No. :- 090
Page No. :-

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Nawbura Mondha Road, Rajabazar, MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.030	5.721		34.465	40.186
	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	0.450	2.499		12.497	14.997
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.350	1.944		15.274	17.218
	Item No. : 11 Transportation of earth Transportation charges							4.484		35.709	40.194
	Item No. 30 :- Refilling the excavated trenches										
	Total Excavation=							14.052			
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.080	3.155			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.484			
	Net Qty = A - B							9.568		73.739	83.307
	NP1.3										
	CH130.75	583.332	581.182	580.732			2.600				
	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	1.050	5.832		51.100	56.932
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.100	6.110		40.186	46.295
	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	0.150	0.833		14.997	15.830
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		17.218	18.885
	Item No. : 11 Transportation of earth Transportation charges							4.590		40.194	44.784
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							14.441			
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.150	3.261			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.590			
	Net Qty = A - B							9.851		83.307	93.158
	NP1.2										
	CH141.95	583.392	581.222	580.772			2.620				
	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	1.050	5.832		56.932	62.764
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.120	6.221		46.295	52.516
	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	0.150	0.833		15.830	16.663
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		18.885	20.551
	Item No. : 11 Transportation of earth Transportation charges							4.621		44.784	49.405



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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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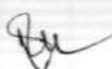
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Nawbura Mondha Road, Rajabazar, MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							14.552			
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.170	3.291			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.621			
	Net Qty = A - B							9.932		93.158	103.090
	NP1.1										
	CH153.15	583.562	581.242	580.792			2.770				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	1.050	5.832		62.764	68.596
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	1.270	7.054		52.516	59.570
	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	0.150	0.833		16.663	17.496
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.300	1.666		20.551	22.217
	Item No. : 11 Transportation of earth Transportation charges							4.848		49.405	54.253
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							15.386			
	Deduction										
	Brick work	1		0.785	1.390	1.390	2.320	3.519			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.200	0.591			
								4.848			
	Net Qty = A - B							10.537		103.090	113.627
	NP1.10.1										
	CH11.05	582.542	581.312	581.062			1.480				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.030	3.234		68.596	71.830
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471		17.496	17.967
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942		22.217	23.159
	Item No. : 11 Transportation of earth Transportation charges							1.777		54.253	56.030
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.647			
	Deduction										
	Brick work	1		0.785	1.160	1.160	1.230	1.299			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Soling							0.000			
								1.777			
	Net Qty = A - B							2.870		113.627	116.498
	NP1.10.2										
	CH20.80	582.547	581.542	581.292			1.255				



Signature



Book No. :- 093
Page No. :-

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

Nawbpura Mondha Road, Rajabazar. MANHOLE

A Item No. : 21 Providing and constructing on sewer BBM manhole 1.2 m dia at bottom and 0.5 m dia at top and up to a depth of 2 M									
Sr.No.	MB/ Page No	Chainage	MH No	MTL	IL *	Depth	Depth Difference than 2 m	Total Difference	Rebate/Add for Excess height (per 50 cm)
1		0.00	NP1.13	581.502	579.932	1.57	-0.43	-1.625	-3.250
2		6.20	NP1.12	581.667	580.022	1.64	-0.36		
3		24.90	NP1.11	582.002	580.292	1.71	-0.29		
4		38.60	NP1.10	582.282	580.552	1.73	-0.27		
5		67.30	NP1.9	582.572	580.792	1.78	-0.22		
6		74.75	NP1.8	582.682	580.922	1.76	-0.24		
7		88.45	NP1.7	582.822	581.032	1.79	-0.21		
8		99.65	NP1.6	582.872	581.072	1.80	-0.20		
9		103.35	NP1.5	582.952	581.082	1.87	-0.13		
10		114.55	NP1.4	583.182	581.102	2.08	0.08		
11		130.75	NP1.3	583.332	581.182	2.15	0.15		
12		141.95	NP1.2	583.392	581.222	2.17	0.17		
13		153.15	NP1.1	583.562	581.242	2.32	0.32		
B Extra Item. No.02: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete									
1		11.05	NP1.10.1	582.542	581.312	1.230	1.5	-0.270	-2.550
2		20.80	NP1.10.2	582.547	581.542	1.005	1.5	-0.495	
		Total						-0.765	
								-0.765	-2.550



[Signature]

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Author

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Branch Of Sewer " NAWABPURA,MONDHA ROAD,RAJABAZAR"

PMC

CLIENT

Ex. Engineer

Dr. Engineer

Mr. Engineer

Project Manager

Project Engineer

Authorized Signatory

[illegible]

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

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Page No. :-

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

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

Date of Measurement	Last Measurement		Total up to Date
	Page No.	Quantity	
	8	9	10

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Nawabpura Mondha Road,Rajabazar. Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Of Sewer " NAWABPURA,MONDHA ROAD,RAJABAZAR"

SR NO	Description	MB/PG	EIRL 2		EIRL 9.1		EIRL 9.2		EIRL 9.3		EIRL 9.4		EIRL 9.5		EIRL 9.6	
			Full Rate	Rebate	250mm	250mm	250mm	250mm	250mm	250mm	250mm	250mm	110mm	160mm	110mm	160mm
					SW Pipe		RCC Pipes		PVC Pipes							
1	For Pipe		2.000	(2.550)	3.850	3.850	15.000	15.000	4.100	7.540	4.100	7.540	4.100	7.540	4.100	7.540
2	For Manhole		2.000	-2.550	3.850	3.850	15.000	15.000	4.100	7.540	4.100	7.540	4.100	7.540	4.100	7.540
	Total		2.000	-2.550	3.850	3.850	15.000	15.000	4.100	7.540	4.100	7.540	4.100	7.540	4.100	7.540

CONTRACTOR

Khilari Infrastructure Pvt. Ltd.

Authorized Signatory

PMC

Fortress Infrastructure Advisory Services

Project Engineer

CLIENT

Fortress Infrastructure Advisory Services

Project Manager

Ex. Engineer

Jr. Engineer

Dy. Engineer

Nawabpura Mondha Road,Rajabazar. Quantity Node Abstract

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Sanjay Nagar-03 250mm-MB

9th R A BILL MEASUREMENTS

SANJAY NAGAR-03

SANJAY NAGAR-03											
Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL DAT
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	RCC 250mm Dia										
	Width of Trench - For										
	Bottom Lift 0.00-1.50m- 0.25+0.06+0.06+0.5=0.87m										
	From Bottom Lift 1.50m-3.00m- 0.25+0.06+0.06+0.5+0.4=1.27m										
	From Bottom Lift 3.00m-4.50m- 0.25+0.06+0.06+0.5+0.4+0.4 = 1.67m										
	SNY01 TO SNY02										
	CH0.00	587.645	586.365	586.165			1.48	1.410			
	CH7.90	587.605	586.465	586.265			1.34				
	Item No. 1 :- Excavation for foundation/pipe trenches in all										
	(a) For Lift 0 to 1.5m	1			5.900	0.870	1.210	6.211		0.000	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			5.900	0.870	0.200	1.027		0.000	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.900	0.870	0.200	1.027		0.000	
	Item No. : 11 Transportation of earth Transportation charges including							1.472		0.000	
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			7.000			7.000		0.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							7.238			
	Deduction										
	pipe area	1		0.785	5.900	0.310	0.310	0.445			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.027			
	Total = B							1.472			
								5.766		0.000	5.
	SNY02 TO SNY03										
	CH7.90	587.605	586.465	586.265			1.34	1.225			
	CH13.80	587.415	586.505	586.305			1.11				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			3.900	0.870	1.025	3.478		6.211	9.4
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard										
	(a) For Lift 0 to 1.5m	1			3.900	0.870	0.200	0.679		1.027	1.7
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.900	0.870	0.200	0.679		1.027	1.7
	Item No. : 11 Transportation of earth Transportation charges including							0.973		1.472	2.4
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			5.000			5.000		7.000	12.0



Signature

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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Page No. :-

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Sanjay Nagar-03 250mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							4.156			
	Deduction										
	pipe area	1		0.785	3.900	0.310	0.310	0.294			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.679			
	Total = B							0.973			
		Net Qty = A - B						3.184		5.766	8.949
	SNY03 TO SNY04										
	CH13.80	587.415	586.505	586.305			1.11	1.285			
	CH22.70	588.095	586.835	586.635			1.46				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	0.870	1.085	6.513		9.689	16.202
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	0.870	0.200	1.201		1.705	2.906
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.900	0.870	0.200	1.201		1.705	2.906
	Item No. : 11 Transportation of earth Transportation charges including							1.721		2.444	4.166
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			8.000			8.000		12.000	20.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							7.714			
	Deduction										
	pipe area	1		0.785	6.900	0.310	0.310	0.521			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.201			
	Total = B							1.721			
		Net Qty = A - B						5.993		8.949	14.942
	SNY04 TO SNY05										
	CH22.70	588.095	586.835	586.635			1.46	1.275			
	CH29.60	587.905	587.015	586.815			1.09				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	1.075	4.583		16.202	20.785
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.200	0.853		2.906	3.758
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.870	0.200	0.853		2.906	3.758
	Item No. : 11 Transportation of earth Transportation charges including							1.222		4.166	5.388



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

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Sanjay Nagar-03 250mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			6.000			6.000		20.000	26.0
	Item No 30 :- Refilling the excavated trenches ...							5.435			
	Total Excavation = A										
	Deduction										
	pipe area	1		0.785	4.900	0.310	0.310	0.370			
	soling							0.000			
	PCC							0.853			
	Murum bedding							1.222			
	Total = B							4.213		14.942	19.9
		Net Qty = A - B									
	SNY05 TO SNY06										
	CH29.60	587.905	587.015	586.815			1.09	1.065			
	CH34.50	588.005	587.165	586.965			1.04				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.865	2.182		20.785	22.0
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.200	0.505		3.758	4.0
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.900	0.870	0.200	0.505		3.758	4.0
	Item No. : 11 Transportation of earth Transportation charges including							0.723		5.388	6.0
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			4.000			4.000		26.000	30.0
	Item No 30 :- Refilling the excavated trenches ...							2.687			
	Total Excavation = A										
	Deduction										
	pipe area	1		0.785	2.900	0.310	0.310	0.219			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.505			
	Total = B							0.723			
		Net Qty = A - B								1.964	19.155
	SNY06 TO SNY07										
	CH34.50	588.005	587.165	586.965			1.04	1.085			
	CH41.40	588.265	587.335	587.135			1.13				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.885	3.773		22.967	23.0
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.200	0.853		4.263	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.870	0.200	0.853		4.263	



Signature

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

Book No. :-

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Sanjay Nagar-03 250mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE	
		No				L	B		D	Page		Quantity
		GL	IL	EX.L								
	Item No. : 11 Transportation of earth Transportation charges including							1.222		6.111	7.333	
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			6.000			6.000		30.000	36.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							4.625				
	Deduction											
	pipe area	1		0.785	4.900	0.310	0.310	0.370				
	soling							0.000				
	PCC							0.000				
	Murum bedding							0.853				
	Total = B							1.222				
	Net Qty = A - B							3.403		21.119	24.522	
	SNY07 TO SNY08											
	CH41.40	588.265	587.335	587.135			1.13	1.140				
	CH48.30	588.335	587.385	587.185			1.15					
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.											
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.940	4.007		26.740	30.747	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.200	0.853		5.116	5.968	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.870	0.200	0.853		5.116	5.968	
	Item No. : 11 Transportation of earth Transportation charges including							1.222		7.333	8.556	
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			6.000			6.000		36.000	42.000	
	Item No 30 :- Refilling the excavated trenches ...											
	Total Excavation = A							4.860				
	Deduction											
	pipe area	1		0.785	4.900	0.310	0.310	0.370				
	soling							0.000				
	PCC							0.000				
	Murum bedding							0.853				
	Total = B							1.222				
	Net Qty = A - B							3.638		24.522	28.160	
	SNY08 TO SNY09											
	CH48.30	588.335	587.385	587.185			1.15	1.085				
	CH57.20	588.245	587.425	587.225			1.02					
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.											
	(a) For Lift 0 to 1.5m	1			6.900	0.870	0.885	5.313		30.747	36.060	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.											
	(a) For Lift 0 to 1.5m	1			6.900	0.870	0.200	1.201		5.968	7.169	



Signature

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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Sanjay Nagar-03 250mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL T DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.900	0.870	0.200	1.201		5.968	7.1
	Item No. : 11 Transportation of earth Transportation charges including							1.721		8.556	10.2
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			8.000			8.000		42.000	50.0
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							6.513			
	Deduction										
	pipe area	1		0.785	6.900	0.310	0.310	0.521			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.201			
	Total = B							1.721			
		Net Qty = A - B						4.792		28.160	32.9
	SNY09 TO SNY10										
	CH57.20	588.245	587.425	587.225			1.02	0.825			
	CH61.10	587.975	587.545	587.345			0.63				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.900	0.870	0.625	1.033		36.060	37.0
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.900	0.870	0.200	0.331		7.169	7.0
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.900	0.870	0.200	0.331		7.169	7.0
	Item No. : 11 Transportation of earth Transportation charges including							0.474		10.277	10.0
	Extra Item No.9.4 :-Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			3.000			3.000		50.000	53.0
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							1.364			
	Deduction										
	pipe area	1		0.785	1.900	0.310	0.310	0.143			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.331			
	Total = B							0.474			
		Net Qty = A - B						0.890		32.952	33.0
	DWC - 200mm Dia										
	Width of Trench - For Lift 0 to 1.50m-0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m-0.200+0.5+0.4=1.100m										
	For Lift 3.0 to 4.5m-0.200+0.5+0.4+0.4=1.500m										
	SNY10 TO SNY11										
	CH61.10	587.975	587.545	587.445			0.530	0.435			
	CH69.50	587.855	587.615	587.515			0.340				



Signature

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

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 earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.700	0.235	1.053		37.093	38.146
	(a) For Lift 0 to 1.5m	1			6.400	0.700	0.000	0.000		0.000	0.000
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.400	0.700	0.200	0.896		7.499	8.395
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.000	0.700	0.100	0.490		7.499	7.989
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.710		10.751	11.461
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			7.500			7.500		0.000	7.500
	Extra Item No.9.4 :- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1								53.000	53.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.949			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	7.000	0.200	0.200	0.220			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.490			
								0.710			
								1.239		33.841	35.080
	Item No :35 Shifting of Existing Utilities Length consider up to 400mm including all and as directed by Engineer in-Charge				0.060					0.000	0.060



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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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Sanjay Nagar-03 Chamber Measurment

9th R A BILL MEASURMENTS OF CHEMBERS SANJAY NAGAR-03

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Up Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth 0.9+0.5+0.3+0.3=2m										
	Area for chamber up to 1.5m=2 X 2=4m										
	SNY1										
	CH0.00	587.645	586.365	586.115			1.530				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.300	4.082		0.000	4.0
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.030	0.094		0.000	0.0
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		0.000	0.6
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.830		0.000	1.8
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.804			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.280	1.35			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.83			
		Net Qty = A - B						2.97		0.00	2.
	SNY2										
	CH7.90	587.605	586.465	586.215			1.390				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.190	3.737		4.082	7.8
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		0.628	1.2
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.682		1.830	3.5
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.365			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.140	1.20			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.68			



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

Sanjay Nagar-03 Chamber Measurment

[Signature]

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

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Sanjay Nagar-03 Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SNY5										
	CH29.60	587.905	587.015	586.765			1.140				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.940	2.952		14.915	17.86
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		2.512	3.14
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.418		6.759	8.17
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.580			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.890	0.94			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.42			
		Net Qty = A - B						2.16		10.79	12.96
	SNY6										
	CH34.50	588.005	587.165	586.915			1.090				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.890	2.795		17.867	20.66
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		3.140	3.76
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.365		8.176	9.54
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.423			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.840	0.89			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.36			
		Net Qty = A - B						2.06		12.96	15.01
	SNY7										
	CH41.40	588.265	587.335	587.085			1.180				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.980	3.077		20.661	23.738
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		3.768	4.396
	Item No. : 11 Transportation of earth Transportation charges							1.460		9.541	11.001



Signature

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

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Sanjay Nagar-03 Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Up to Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.705			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.930	0.98			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.46			
		Net Qty = A - B						2.25		15.01	17.26
	SNY8										
	CH48.30	588.335	587.385	587.135			1.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.000	3.140		23.738	26.878
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		4.396	5.024
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.481		11.001	12.482
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.768			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.950	1.00			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.48			
		Net Qty = A - B						2.29		17.26	19.55
	SNY9										
	CH57.20	588.245	587.425	587.175			1.070				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.870	2.732		26.878	29.610
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		5.024	5.652
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.344		12.482	13.826
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.360			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.820	0.87			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.34			
		Net Qty = A - B						2.02		19.55	21.56
	SNY10										
	CH61.10	587.975	587.545	587.295			0.680				



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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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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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Sanjay Nagar-03 Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.480	1.507		29.610	31.117
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		5.652	6.280
	Item No. : 11 Transportation of earth Transportation charges							0.932		13.826	14.758
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.135			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.430	0.45			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							0.93			
		Net Qty = A - B						1.20		21.56	22.7
	SNY11										
	CH69.50	587.855	587.615	587.365			0.490				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.290	0.911		31.117	32.0
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.00	0.000		0.126	0.1
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628		6.280	6.5
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.731		14.758	15.4
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							1.539			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.240	0.25			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							0.73			
		Net Qty = A - B						0.81		22.77	2.7



Signature

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

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

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Sanjay Nagar-03 CHAMBER

9th R A BILL MEASUREMENTS CHAMBER SANJAY NAGAR-03

SR NO	chainage	CHEMBE R NUMBE	DETAILS			Rebate up to Depth of 1.5 mtr		Total Rebate Qty for 30 cm
			No			For per 30 cm		
			GL	IL	DEPTH			
A		Extra Item,: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete						
1	CH0.00	SNY1	587.645	586.365	1.280	1.500	-0.22	-17.20
2	CH7.90	SNY2	587.605	586.465	1.140	1.500	-0.36	
3	CH13.80	SNY3	587.805	586.505	1.300	1.500	-0.20	
4	CH22.70	SNY4	588.095	586.835	1.260	1.500	-0.24	
5	CH29.60	SNY5	588.015	587.015	1.000	1.500	-0.50	
6	CH34.50	SNY6	588.145	587.165	0.980	1.500	-0.52	
7	CH41.40	SNY7	588.265	587.335	0.930	1.500	-0.57	
8	CH48.30	SNY8	588.335	587.385	0.950	1.500	-0.55	
9	CH57.20	SNY9	588.325	587.425	0.900	1.500	-0.60	
10	CH61.10	SNY10	588.345	587.545	0.800	1.500	-0.70	
11	CH69.50	SNY11	588.415	587.615	0.800	1.500	-0.70	-17.20
							-5.16	



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Page No. :-

of Arrears	Last Measurement		Total up to Date
	Page No.	Quantity	
	8	9	10