

**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 arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							112.033			
	<b>Deduction</b>										
	pipe area	1.00		0.785	24.30	0.770	0.770	11.31			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.00			
	<b>Total = B</b>							18.31			
		<b>Net Qty = A - B</b>								10802.301	10896.03
	<b>CH9436.90</b>	583.325	580.675	580.475			2.850	2.900			
	<b>CH9465.15</b>	583.500	580.750	580.550			2.950				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			26.8	1.840	1.000	49.312	4772.519	4821.831	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			26.8	1.840	0.500	24.656	658.182	682.838	
	(b) For Lift 1.5m to 3.0m	1			26.8	1.440	0.850	32.803	847.552	880.355	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.8	1.440	0.500	19.296	221.481	240.777	
	<b>Item No. 5 :-</b> Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			26.8	1.440	0.050	1.930	3164.248	3166.178	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			26.8	1.440	0.200	7.718	721.298	729.016	
	<b>Item No 17 ( d ) :-</b> Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			27.5			27.500	985.000	1012.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							127.997			
	<b>Deduction</b>										
	pipe area	1.00		0.785	26.80	0.770	0.770	12.47			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.72			
	<b>Total = B</b>							20.19			
		<b>Net Qty = A - B</b>								10896.025	11003.83
	<b>B 84</b>	(Jalal Nagar)									
	<b>CH9465.15</b>	583.500	580.800	580.600			2.900	2.668			
	<b>CH9488.40</b>	583.095	580.860	580.660			2.435				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			21.8	1.840	1.500	60.168	4821.831	4881.999	
	(b) For Lift 1.5m to 3.0m	1			21.8	1.440	0.120	3.767	1337.435	1341.202	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.8	1.440	0.500	15.696	880.355	896.051	



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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

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B Sewer-Near Bibi-ka-Maqbara-600mm

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>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.8	1.440	0.500	15.696		914.051	929.747
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.8	1.440	0.435	13.656		270.580	284.235
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.8	1.440	0.200	6.278		742.495	748.773
	<b>Item No 17 ( d ) :-</b> Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			22.5			22.500		1060.000	1082.500
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							89.520			
	<b>Deduction</b>										
	pipe area	1.00		0.785	21.80	0.770	0.770	10.15			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							6.28			
	<b>Total = B</b>							16.42			
	<b>Net Qty = A - B</b>							73.09	11166.804	11239.90	
	<b>B 85</b>										
	CH9536.65	583.265	580.960	580.760			2.505				
	CH9564.90	583.060	581.010	580.810			2.250	2.378			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			26.8	1.840	1.500	73.968		5011.167	5085.135
	(b) For Lift 1.5m to 3.0m	1			26.8	1.440	0.878	33.864		1343.002	1376.866
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			26.8	1.440	0.200	7.718		748.773	756.491
	<b>Item No 17 ( d ) :-</b> Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			27.5			27.500		1082.500	1110.000
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							107.832			
	<b>Deduction</b>										
	pipe area	1.00		0.785	26.80	0.770	0.770	12.47			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							7.72			
	<b>Total = B</b>							20.19			
	<b>Net Qty = A - B</b>							87.64	11239.898	11327.54	
	CH9564.90	583.060	581.010	580.810			2.250				
	CH9593.15	582.910	581.060	580.860			2.050	2.150			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			26.8	1.840	1.500	73.968		5085.135	5159.103
	(b) For Lift 1.5m to 3.0m	1			26.8	1.440	0.650	25.085		1376.866	1401.951
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			26.8	1.440	0.200	7.718		756.491	764.210



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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			27.5			27.500		1110.000	1137.500
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							<b>99.053</b>			
	<b>Deduction</b>										
	pipe area	1.00		0.785	26.80	0.770	0.770	12.47			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.72			
	<b>Total = B</b>							<b>20.19</b>			
								<b>Net Qty = A - B</b>			
								<b>78.86</b>		<b>11327.539</b>	<b>11406.40</b>
	B 86										
	CH9593.15	582.910	581.060	580.860			2.050	2.000			
	CH9618.90	582.850	581.100	580.900			1.950				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			24.30	1.840	0.400	17.885		0.000	17.885
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			24.3	1.840	1.100	49.183		5159.103	5208.286
	(b) For Lift 1.5m to 3.0m	1			24.3	1.440	0.500	17.496		1401.951	1419.447
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			24.3	1.440	0.200	6.998		764.210	771.208
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.0			25.000		1137.500	1162.500
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							<b>84.564</b>			
	<b>Deduction</b>										
	pipe area	1.00		0.785	24.30	0.770	0.770	11.31			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.00			
	<b>Total = B</b>							<b>18.31</b>			
								<b>Net Qty = A - B</b>			
								<b>66.26</b>		<b>11406.400</b>	<b>11472.66</b>
	CH9618.90	582.850	581.100	580.900			1.950	1.950			
	CH9643.90	582.890	581.140	580.940			1.950				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	1.840	0.400	18.400		17.885	36.285
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			25.0	1.840	1.100	50.600		5208.286	5258.886
	(b) For Lift 1.5m to 3.0m	1			25.0	1.440	0.450	16.200		1419.447	1435.647
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.0	1.440	0.200	7.200		771.208	778.408
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.0			25.000		1162.500	1187.500



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B Sewer-Near Bibi-ka-Maqbara-600mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>						<b>85.200</b>				
	<b>Deduction</b>										
	pipe area	1.00		0.785	25.00	0.770	0.770	11.64			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.20			
	<b>Total = B</b>							<b>18.84</b>			
				<b>Net Qty = A - B</b>				<b>66.36</b>		<b>11472.656</b>	<b>11539.02</b>
	CH9643.90	582.890	581.140	580.940			1.950	1.975			
	CH9672.15	582.985	581.185	580.985			2.000				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			26.80	1.840	0.400	19.725	36.285	56.010	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			26.8	1.840	1.100	54.243	5258.886	5313.129	
	(b) For Lift 1.5m to 3.0m	1			26.8	1.440	0.475	18.331	1435.647	1453.978	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			26.8	1.440	0.200	7.718	778.408	786.127	
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			27.5			27.500	1187.500	1215.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							<b>92.299</b>			
	<b>Deduction</b>										
	pipe area	1.00		0.785	26.80	0.770	0.770	12.47			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.72			
	<b>Total = B</b>							<b>20.19</b>			
				<b>Net Qty = A - B</b>				<b>72.11</b>		<b>11539.020</b>	<b>11611.13</b>
	B 87						2.000	1.975			
	CH9672.15	582.985	581.185	580.985			1.950				
	CH9710.40	582.985	581.235	581.035							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			36.80	1.840	0.400	27.085	56.010	83.094	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			36.8	1.840	1.100	74.483	5313.129	5387.612	
	(b) For Lift 1.5m to 3.0m	1			36.8	1.440	0.475	25.171	1453.978	1479.149	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			36.8	1.440	0.200	10.598	786.127	796.725	
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			37.5			37.500	1215.000	1252.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							<b>126.739</b>			
	<b>Deduction</b>										



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Akh. 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 from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

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B Sewer-Near Bibi-ka-Maqbara-600mm

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	pipe area	1.00		0.785	36.80	0.770	0.770	17.13			
	soling							0.00			
	PCC							0.00			
	Murum bedding							10.60			
	Total = B							27.73			
		Net Qty = A - B							99.01	11611.127	11710.14
	CH9718.40	582.985	581.235	581.035			1.950	2.000			
	CH9748.65	583.135	581.285	581.085			2.050				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			36.80	1.840	0.500	33.856	83.094	116.950	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			36.8	1.840	1.000	67.712	5387.612	5455.324	
	(b) For Lift 1.5m to 3.0m	1			36.8	1.440	0.500	26.496	1479.149	1505.645	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			36.8	1.440	0.200	10.598	796.725	807.323	
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			37.5			37.500	1252.500	1290.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							128.064			
	Deduction										
	pipe area	1.00		0.785	36.80	0.770	0.770	17.13			
	soling							0.00			
	PCC							0.00			
	Murum bedding							10.60			
	Total = B							27.73			
		Net Qty = A - B							100.34	11710.141	11810.48
	B 88										
	CH9748.65	583.135	581.285	581.085			2.050	2.050			
	CH9779.40	583.175	581.325	581.125			2.050				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			29.30	1.840	0.500	26.956	116.950	143.906	
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			29.3	1.840	1.000	53.912	5455.324	5509.236	
	(b) For Lift 1.5m to 3.0m	1			29.3	1.440	0.550	23.206	1505.645	1528.851	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.3	1.440	0.200	8.438	807.323	815.762	
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			30.0			30.000	1290.000	1320.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							104.074			
	Deduction										
	pipe area	1.00		0.785	29.30	0.770	0.770	13.64			
	soling							0.00			
	PCC							0.00			
	Murum bedding							8.44			



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

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B Sewer-Near Bibi-ka-Maqbara-600mm

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>Deduction</b>										
	pipe area	1.00		0.785	36.80	0.770	0.770	17.13			
	soling							0.00			
	PCC							0.00			
	Murram bedding							10.60			
	<b>Total = B</b>							<b>27.73</b>			
		<b>Net Qty = A - B</b>									
								<b>113.59</b>			
	<b>B 90</b>										
	CH9919.15	583.555	581.505	581.305				2.250	2.275		
	CH9957.40	583.680	581.580	581.380				2.300			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			36.8	1.840	1.500	101.568	5822.864	5924.432	
	(b) For Lift 1.5m to 3.0m	1			36.8	1.440	0.325	17.222	1573.865	1591.088	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			36.8	1.440	0.450	23.846	993.158	1017.004	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			36.8	1.440	0.200	10.598	854.757	865.355	
	<b>Item No 17 ( d ) :-</b> Lowering & Laying RCC NP3 class pipe of 600mm Dia										
		1			37.5			37.500	1457.500	1495.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							<b>142.637</b>			
	<b>Deduction</b>										
	pipe area	1.00		0.785	36.80	0.770	0.770	17.13			
	soling							0.00			
	PCC							0.00			
	Murram bedding							10.60			
	<b>Total = B</b>							<b>27.73</b>			
		<b>Net Qty = A - B</b>									
								<b>114.91</b>			
	CH9957.40	583.680	581.580	581.380				2.300	2.325		
	CH9995.65	583.805	581.655	581.455				2.350			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			36.8	1.840	1.500	101.568	5924.432	6026.000	
	(b) For Lift 1.5m to 3.0m	1			36.8	1.440	0.375	19.872	1591.088	1610.960	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			36.8	1.440	0.450	23.846	1017.004	1040.850	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			36.8	1.440	0.200	10.598	865.355	875.954	
	<b>Item No 17 ( d ) :-</b> Lowering & Laying RCC NP3 class pipe of 600mm Dia										
		1			37.5			37.500	1495.000	1532.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							<b>145.286</b>			
	<b>Deduction</b>										
	pipe area	1.00		0.785	36.80	0.770	0.770	17.13			
	soling							0.00			



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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							
	PCC										
	Murum bedding							0.00			
	<b>Total = B</b>							10.60			
								27.73			
								<b>Net Qty = A - B</b>			
								117.56	12419.951	12537.51	
	<b>B 91</b>										
	CH9995.65	583.805	581.655	581.455			2.350	2.318			
	CH10022.15	583.840	581.755	581.555			2.285				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			23.6	1.840	1.500	65.136	6026.000	6091.136	
	(b) For Lift 1.5m to 3.0m	1			23.6	1.440	0.340	11.555	1610.960	1622.514	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			23.6	1.440	0.478	16.244	1040.850	1057.095	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			23.6	1.440	0.200	6.797	875.954	882.751	
	<b>Item No 17 ( d ) :-</b> Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			25.0			25.000	1532.500	1557.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							92.935			
	<b>Deduction</b>										
	pipe area	1.00		0.785	23.60	0.770	0.770	10.98			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.80			
	<b>Total = B</b>							17.78			
								<b>Net Qty = A - B</b>			
								75.15	12537.511	12612.67	
	<b>B 92</b>										
	CH10022.15	583.840	581.755	581.555			2.285	2.335			
	CH10055.40	584.030	581.845	581.645			2.385				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc										
	(a) For Lift 0 to 1.5m	1			31.8	1.840	1.500	87.768	6091.136	6178.904	
	(b) For Lift 1.5m to 3.0m	1			31.8	1.440	0.185	8.472	1622.514	1630.986	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			31.8	1.440	0.650	29.765	1057.095	1086.860	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			31.8	1.440	0.200	9.158	882.751	891.909	
	<b>Item No 17 ( d ) :-</b> Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			32.5			32.500	1557.500	1590.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation= A=</b>							126.004			
	<b>Deduction</b>										
	pipe area	1.00		0.785	31.80	0.770	0.770	14.80			
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.16			
	<b>Total = B</b>							23.96			



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

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B Sewer-Near Bibi-ka-Maqbara-500mm

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						102.05		12612.666	12714.71
	CH10055.40	584.030	581.845	581.645			2.385	2.440			
	CH10091.15	584.230	581.935	581.735			2.495				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			34.3	1.840	1.500	94.668		6178.904	6273.572
	(b) For Lift 1.5m to 3.0m	1			34.3	1.440	0.390	19.263		1630.986	1650.249
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			34.3	1.440	0.550	27.166		1086.860	1114.025
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			34.3	1.440	0.200	9.878		891.909	901.787
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			35.0			35.000		1590.000	1625.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							141.096			
	Deduction										
	pipe area	1.00		0.785	34.30	0.770	0.770	15.96			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							9.88			
	Total = B							25.84			
		Net Qty = A - B						115.25		12714.711	12829.96
	B 93										
	CH10091.15	584.230	581.935	581.735			2.495	2.373			
	CH10121.90	584.060	582.010	581.810			2.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			29.3	1.840	1.500	80.868		6273.572	6354.440
	(b) For Lift 1.5m to 3.0m	1			29.3	1.440	0.320	13.501		1650.249	1663.750
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			29.3	1.440	0.553	23.332		1114.025	1137.357
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.3	1.440	0.200	8.438		901.787	910.226
	Item No 17 ( d ) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1			30.0			30.000		1625.000	1655.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation= A=							117.702			
	Deduction										
	pipe area	1.00		0.785	29.30	0.770	0.770	13.64			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							8.44			
	Total = B							22.08			
		Net Qty = A - B						95.63		12829.965	12925.59
	CH10121.90	584.060	582.010	581.810			2.250	2.600			



17/04/20



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

Date of Measurement

B Sewer-Near Bibi-ka-Maqbara-600mm

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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	HL							EX.L	
	(c) For Lift 3.0m to 4.5m	1		29.3	1.440	0.000	0.000	1791.761	1791.761	1791.761	
	(d) For Lift 4.5m to 6.0m	1		29.3	1.440	0.000	0.000	38.334	38.334	38.334	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1		29.3	1.440	0.200	8.438	918.866	918.866	927.304	
	Item No 17 (d) :- Lowering & Laying RCC NP3 class pipe of 600mm Dia	1		30.0			30.000	1685.000	1685.000	1715.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A =						136.055				
	Deduction pipe area	1.00		0.785	29.30	0.770	13.64				
	soling						0.00				
	PCC						0.00				
	Murrum bedding						8.44				
	Total = B						22.08				
							113.98	13033.308	13033.308	13147.29	

TPM



at	Total up to Date
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y	
	10

**9th R A BILL MEASUREMENTS**

**Main Sewer of B**

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	<b>500mm Dia-At Jalal Colony</b>										
	<b>Width of Trench -</b> For Bottom Lift 0.00-1.50m- 0.5+0.15+0.15+0.5=1.3m										
	From Bottom Lift 1.50m-3.00m- 0.5+0.15+0.15+0.5+0.4=1.7m										
	From Bottom Lift 3.00m-4.50m- 0.5+0.15+0.15+0.5+0.4+0.4=2.1m										
	<b>B 94</b>										
	CH10182.65	584.675	582.710	582.310			2.37				
	CH10215.75	584.845	582.775	582.375			2.47	2.418			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			31.65	1.700	0.200	10.761	6458.805	6469.566	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			31.65	1.700	0.200	10.761	720.577	731.338	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			31.65	1.700	0.400	21.522	437.125	458.647	
	<b>Item No. 5 :-</b> Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			31.65	1.700	0.700	37.664	1102.113	1139.776	
	(b) For Lift 1.5m to 3.0m	1			31.65	1.300	0.918	37.771	3187.611	3225.382	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc	1			31.65	1.300	0.200	8.229	927.304	935.533	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			32.5			32.500	0.000	32.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							118.479			
	<b>Deduction</b>										
	pipe area	1		0.785	31.65	0.650	0.650	10.50			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							8.23			
	<b>Total = B</b>							18.73			
	<b>Net Qty = A - B</b>							99.75	13147.288	13247.040	
	CH10215.75	584.845	582.775	582.375			2.47				
	CH10240.75	584.735	582.825	582.425			2.31	2.390			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murrum etc										
	(a) For Lift 0 to 1.5m	1			25.00	1.700	0.720	30.600	6469.566	6500.166	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	1.700	0.200	8.500	731.338	739.838	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			25.00	1.700	0.400	17.000	458.647	475.647	



TPK/GE

**3** **Scope 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-Jalal colony 500-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. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			25.00	1.700	0.180	7.650	1139.776	1147.426	
	(b) For Lift 1.5m to 3.0m	1			25.00	1.300	0.890	28.925	3225.382	3254.307	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.00	1.300	0.200	6.500	935.533	942.033	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			25.0			25.000	32.500	57.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							92.675			
	<b>Deduction</b>										
	pipe area	1		0.785	25.00	0.650	0.650	8.29			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.50			
	<b>Total = B</b>							14.79			
	<b>Net Qty = A - B</b>							77.88	13247.040	13324.924	
	CH10240.75	584.735	582.825	582.425			2.31	2.323			
	CH10266.35	584.810	582.875	582.475			2.34				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	1.700	0.200	8.211	6500.166	6508.377	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	1.700	0.200	8.211	739.838	748.049	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	1.700	0.650	26.686	475.647	502.333	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			24.15	1.700	0.450	18.475	1147.426	1165.901	
	(b) For Lift 1.5m to 3.0m	1			24.15	1.300	0.823	25.838	3254.307	3280.146	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			24.15	1.300	0.200	6.279	942.033	948.312	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			25.0			25.000	57.500	82.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							87.421			
	<b>Deduction</b>										
	pipe area	1		0.785	24.15	0.650	0.650	8.01			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.28			
	<b>Total = B</b>							14.29			
	<b>Net Qty = A - B</b>							73.13	13324.924	13398.056	
	B 95										
	CH10266.35	584.810	582.875	582.475			2.34	2.680			
	CH10289.45	585.550	582.925	582.525			3.03				



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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

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B Sewer-Jalal colony 500-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE
		No		L	B	D		Page	Quantity	
		GL	IL							
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			21.65	1.700	0.150	5.521	6508.377	6513.898
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			21.65	1.700	0.650	23.923	502.333	526.256
	<b>Item No. 5 :-</b> Excavation for foundation/pipe trenches in Hard rock etc complete.									
	(a) For Lift 0m to 1.5m	1			21.65	1.700	0.700	25.764	1165.901	1191.664
	(b) For Lift 1.5m to 3.0m	1			21.65	1.300	1.180	33.211	3280.146	3313.357
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.65	1.300	0.200	5.629	948.312	953.941
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			22.5			22.500	82.500	105.000
	<b>Item No 30 :-</b> Refilling the excavated trenches ...									
	<b>Total Excavation = A</b>							<b>88.419</b>		
	<b>Deduction</b>									
	pipe area	1		0.785	21.65	0.650	0.650	7.18		
	soling							0.00		
	PCC							0.00		
	Murum bedding							5.63		
	<b>Total = B</b>							<b>12.81</b>		
	<b>Net Qty = A - B</b>							<b>75.61</b>	<b>13398.056</b>	<b>13473.665</b>
	<b>CH10289.45</b>	585.550	582.925	582.525			3.03	3.140		
	<b>CH10311.95</b>	585.830	582.975	582.575			3.26			
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.									
	(a) For Lift 0 to 1.5m	1			22.50	2.100	0.150	7.088	6513.898	6520.985
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			22.50	2.100	0.650	30.713	526.256	556.968
	<b>Item No. 5 :-</b> Excavation for foundation/pipe trenches in Hard rock etc complete.									
	(a) For Lift 0m to 1.5m	1			22.50	2.100	0.700	33.075	1191.664	1224.739
	(b) For Lift 1.5m to 3.0m	1			22.50	1.700	1.500	57.375	3313.357	3370.732
	(c) For Lift 3.0m to 4.5m	1			22.50	1.300	0.140	4.095	1791.761	1795.856
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			22.50	1.300	0.200	5.850	953.941	959.791
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			22.5			22.500	105.000	127.500
	<b>Item No 30 :-</b> Refilling the excavated trenches ...									
	<b>Total Excavation = A</b>							<b>132.345</b>		
	<b>Deduction</b>									
	pipe area	1		0.785	22.50	0.650	0.650	7.46		
	soling							0.00		
	PCC							0.00		
	Murum bedding							5.85		
	<b>Total = B</b>							<b>13.31</b>		



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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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B Sewer-Jalal colony 500-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
		Net Qty = A - B					119.03		13473.665	13592.698	
	CH10311.95	585.830	582.975	582.575			3.26				
	CH10335.05	585.730	583.030	582.630			3.10				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.100	0.500	22.733	6520.985	6543.718	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.100	0.700	31.826	748.049	779.874	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.100	0.300	13.640	556.968	570.608	
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	0.400	14.722	365.558	380.280	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	1.100	40.486	3370.732	3411.217	
	(c) For Lift 3.0m to 4.5m	1			21.65	1.300	0.178	5.010	1795.856	1800.866	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.65	1.300	0.200	5.629	959.791	965.420	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			22.5			22.500	127.500	150.000	
	Item No 30 :- Refilling the excavated trenches --										
	Total Excavation = A							128.415			
	Deduction										
	pipe area	1		0.785	21.65	0.650	0.650	7.18			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							5.63			
	Total = B							12.81			
		Net Qty = A - B							115.61	13592.698	13708.303
	B 96										
	CH10335.05	585.730	583.050	582.650			3.08	3.220			
	CH10358.15	586.060	583.100	582.700			3.36				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.100	0.500	22.733	6543.718	6566.450	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.100	1.000	45.465	779.874	825.339	
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	0.750	27.604	1163.277	1190.881	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	0.300	11.042	380.280	391.321	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	0.450	16.562	3411.217	3427.779	
	(c) For Lift 3.0m to 4.5m	1			21.65	1.300	0.220	6.192	1800.866	1807.052	



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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. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.65	1.300	0.200	5.629		965.420	971.049
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			22.5			22.500		150.000	172.500
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>129.597</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	21.65	0.650	0.650	7.18			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.63			
	<b>Total = B</b>							<b>12.81</b>			
								<b>Net Qty = A - B</b>			
								<b>116.79</b>		13708.303	13825.090
	CH10358.15	586.060	583.100	582.700			3.36				
	CH10380.65	585.990	583.150	582.750			3.24	3.300			
	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			22.50	2.100	0.500	23.625		6566.450	6590.075
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			22.50	2.100	1.000	47.250		825.339	872.589
	(b) For Lift 1.5m to 3.0m	1			22.50	1.700	0.630	24.098		1190.881	1214.979
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			22.50	1.700	0.300	11.475		391.321	402.796
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			22.50	1.700	0.570	21.803		3427.779	3449.582
	(c) For Lift 3.0m to 4.5m	1			22.50	1.300	0.300	8.775		1807.057	1815.832
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			22.50	1.300	0.200	5.850		971.049	976.899
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			22.5			22.500		172.500	195.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>137.025</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	22.50	0.650	0.650	7.46			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.85			
	<b>Total = B</b>							<b>13.31</b>			
								<b>Net Qty = A - B</b>			
								<b>123.71</b>		13825.090	13948.803
	CH10380.65	585.990	583.150	582.750			3.24				
	CH10401.25	585.820	583.190	582.790			3.03	3.135			
	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	2.100	0.400	16.086		6590.075	6606.161



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

Book No. :-  
Page No. :-

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B Sewer-Jalal colony 500-MB

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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 murrum etc complete.										
	(a) For Lift 0 to 1.5m				19.15	2.100	1.100	44.237	872.589	916.826	
	(b) For Lift 1.5m to 3.0m	1			19.15	1.700	0.600	19.533	1214.979	1234.512	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.700	0.460	14.975	402.796	417.772	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			19.15	1.700	0.440	14.324	3449.582	3463.906	
	(c) For Lift 3.0m to 4.5m	1			19.15	1.300	0.135	3.361	1815.832	1819.193	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			19.15	1.300	0.200	4.979	976.899	981.878	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			20.0			20.000	195.000	215.000	
	Item No 30 :- Refilling the excavated trenches ...							112.516			
	<b>Total Excavation = A</b>										
	Deduction							6.35			
	pipe area	1		0.785	19.15	0.650	0.650	0.00			
	soling							0.00			
	PCC							4.98			
	Murrum bedding							11.33			
	<b>Total = B</b>							101.19	13948.803	14049.988	
	<b>Net Qty = A - B</b>										
	B 97										
	CH10401.25	585.820	583.190	582.790			3.03	3.153			
	CH10424.35	596.110	583.235	582.835			3.28				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.100	1.330	60.468	6606.161	6666.630	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			21.65	2.100	0.170	7.729	916.826	924.555	
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	0.630	23.187	1234.512	1257.699	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	0.450	16.562	417.772	434.334	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			21.65	1.700	0.420	15.458	3463.906	3479.364	
	(c) For Lift 3.0m to 4.5m	1			21.65	1.300	0.153	4.306	1819.193	1823.499	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			21.65	1.300	0.200	5.629	981.878	987.507	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			22.5			22.500	215.000	237.500	
	Item No 30 :- Refilling the excavated trenches ...							127.711			
	<b>Total Excavation = A</b>										
	Deduction							7.18			
	pipe area	1		0.785	21.65	0.650	0.650				



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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							
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.63			
	<b>Total = B</b>							<b>12.81</b>			
		<b>Net Qty = A - B</b>									
								<b>114.90</b>			
									14049.988	14164.890	
	CH10424.35	586.110	583.235	582.835			3.28				
	CH10449.95	586.055	583.285	582.885			3.17	3.223			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.15	2.100	1.500	76.073	6666.630	6742.702	
	(b) For Lift 1.5m to 3.0m	1			24.15	1.700	0.850	34.897	1670.230	1705.127	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.15	1.700	0.300	12.317	1257.699	1270.015	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(b) For Lift 1.5m to 3.0m	1			24.15	1.700	0.350	14.369	434.334	448.703	
	(c) For Lift 3.0m to 4.5m	1			24.15	1.300	0.223	7.001	142.606	149.607	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			24.15	1.300	0.200	6.279	987.507	993.786	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			25.0			25.000	237.500	262.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>144.656</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	24.15	0.650	0.650	8.01			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.28			
	<b>Total = B</b>							<b>14.29</b>			
		<b>Net Qty = A - B</b>									
								<b>130.37</b>			
	<b>B 98</b>								14164.890	14295.257	
	CH10449.95	586.055	583.285	582.885			3.17				
	CH10483.05	586.020	583.350	582.950			3.07	3.120			
	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			31.65	2.100	1.500	99.698	6742.702	6842.400	
	(b) For Lift 1.5m to 3.0m	1			31.65	1.700	0.850	45.734	1705.127	1750.861	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(b) For Lift 1.5m to 3.0m	1			31.65	1.700	0.650	34.973	1270.015	1304.988	
	(c) For Lift 3.0m to 4.5m	1			31.65	1.300	0.120	4.937	231.990	236.927	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			31.65	1.300	0.200	8.229	993.786	1002.015	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			32.5			32.500	262.500	295.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>185.342</b>			
	<b>Deduction</b>										



mpg



**9th R A BILL MEASUREMENTS**

**Main Sewer of B**

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>500mm Dia-At Himayat Bag</b>										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.5+0.15+0.15+0.5=1.3m										
	From Bottom Lift 1.50m-3.00m- 0.5+0.15+0.15+0.5+0.4=1.7m										
	From Bottom Lift 3.00m-4.50m- 0.5+0.15+0.15+0.5+0.4+0.4=2.1m										
	<b>B 220</b>										
	<b>CH10877.70</b>	591.625	589.040	588.640			2.99	3.028			
	<b>CH10908.30</b>	591.785	589.115	588.715			3.07				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	1.700	1.500	74.333	6949.972	7024.305	
	(b) For Lift 1.5m to 3.0m	1			29.15	1.300	1.500	56.843	1803.691	1860.534	
	(c) For Lift 3.0m to 4.5m	1			29.15	1.300	0.028	1.061	53.037	54.099	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.15	1.300	0.200	7.579	1010.894	1018.473	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000	330.000	360.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>132.236</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	29.15	0.650	0.650	9.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.58			
	<b>Total = B</b>							<b>17.25</b>			
	<b>Net Qty = A - B</b>							<b>114.99</b>	<b>14644.315</b>	<b>14759.304</b>	
	<b>CH10908.30</b>	591.785	589.115	588.715			3.07	3.095			
	<b>CH10938.90</b>	591.910	589.190	588.790			3.12				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			29.15	1.700	1.500	74.333	7024.305	7098.637	
	(b) For Lift 1.5m to 3.0m	1			29.15	1.300	1.500	56.843	1860.534	1917.376	
	(c) For Lift 3.0m to 4.5m	1			29.15	1.300	0.095	3.600	54.099	57.699	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.15	1.300	0.200	7.579	1018.473	1026.052	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000	360.000	390.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>134.775</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	29.15	0.650	0.650	9.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.58			
	<b>Total = B</b>							<b>17.25</b>			



Page 1

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 from Golwadi SDS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Book No. :-

Page No. :-

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B Sewer-Himayat Bag 500-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
		Net Qty = A - B						117.53		14759.304	14876.832
	<b>B 221</b>										
	CH10938.90	591.910	589.190	588.790			3.12	3.145			
	CH10969.50	592.035	589.265	588.865			3.17				
	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	2.100	1.500	91.823	7098.637	7190.460	
	(b) For Lift 1.5m to 3.0m	1			29.15	1.700	1.500	74.333	1917.376	1991.709	
	(c) For Lift 3.0m to 4.5m	1			29.15	1.300	0.145	5.495	57.699	63.193	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.15	1.300	0.200	7.579	1026.052	1033.631	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000	390.000	420.000	
	Item No 30 :- Refilling the excavated trenches ...							171.650			
	<b>Total Excavation = A</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	29.15	0.650	0.650	9.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.58			
	<b>Total = B</b>							17.25			
		Net Qty = A - B						154.40		14876.832	15031.235
	CH10969.50	592.035	589.265	588.865			3.17	3.195			
	CH11000.10	592.160	589.340	588.940			3.22				
	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	2.100	1.500	91.823	7190.460	7282.282	
	(b) For Lift 1.5m to 3.0m	1			29.15	1.700	1.500	74.333	1991.709	2066.041	
	(c) For Lift 3.0m to 4.5m	1			29.15	1.300	0.195	7.390	63.193	70.583	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.15	1.300	0.200	7.579	1033.631	1041.210	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000	420.000	450.000	
	Item No 30 :- Refilling the excavated trenches ...							173.545			
	<b>Total Excavation = A</b>										
	<b>Deduction</b>										
	pipe area	1		0.785	29.15	0.650	0.650	9.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.58			
	<b>Total = B</b>							17.25			
		Net Qty = A - B						156.30		15031.235	15187.532
	<b>B 222</b>										
	CH11000.10	592.160	589.340	588.940			3.22	3.220			
	CH11030.70	592.235	589.415	589.015			3.22				
	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	2.100	1.500	91.823	7282.282	7374.105	
	(b) For Lift 1.5m to 3.0m	1			29.15	1.700	1.500	74.333	2066.041	2140.374	



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Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	(c) For Lift 3.0m to 4.5m	1			29.15	1.300	0.220	8.337		70.583	78.920
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.15	1.300	0.200	7.579		1041.210	1048.789
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000		450.000	480.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							174.492			
	Deduction										
	pipe area	1		0.785	29.15	0.650	0.650	9.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.58			
	Total = B							17.25			
	Net Qty = A - B							157.24		15187.532	15344.777
	CH11030.70	592.235	589.415	589.015							
	CH11060.70	592.260	589.490	589.090			3.22	3.195			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						3.17				
	(a) For Lift 0 to 1.5m	1			30.00	2.100	1.500	94.500		7374.105	7468.605
	(b) For Lift 1.5m to 3.0m	1			30.00	1.700	1.500	76.500		2140.374	2216.874
	(c) For Lift 3.0m to 4.5m	1			30.00	1.300	0.195	7.605		78.920	86.525
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.00	1.300	0.200	7.800		1048.789	1056.589
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000		480.000	510.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							178.605			
	Deduction										
	pipe area	1		0.785	30.00	0.650	0.650	9.95			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.80			
	Total = B							17.75			
	Net Qty = A - B							160.86		15344.777	15505.632
	CH11060.70	592.260	589.490	589.090							
	CH11088.80	592.385	589.565	589.165			3.17	3.195			
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						3.22				
	(a) For Lift 0 to 1.5m	1			26.65	2.100	1.500	83.948		7468.605	7552.552
	(b) For Lift 1.5m to 3.0m	1			26.65	1.700	1.500	67.958		2216.874	2284.831
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			26.65	1.300	0.195	6.756		244.918	251.674
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			26.65	1.300	0.200	6.929		1056.589	1063.518
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			27.5			27.500		510.000	537.500



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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 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>						<b>158.661</b>				
	<b>Deduction</b>										
	pipe area	1		0.785	26.65	0.650	0.650	8.84			
	soling							0.00			
	PCC							0.00			
	Murum bedding							6.93			
	<b>Total = B</b>							<b>15.77</b>			
		<b>Net Qty = A - B</b>						<b>142.89</b>		<b>15505.632</b>	<b>15648.525</b>
	B 223										
	CH11088.80	592.385	589.565	589.165			3.22	3.195			
	CH11119.40	592.410	589.640	589.240			3.17				
	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	2.100	1.500	91.823	7552.552	7644.375	
	(b) For Lift 1.5m to 3.0m	1			29.15	1.700	1.500	74.333	2284.831	2359.164	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			29.15	1.300	0.195	7.390	251.674	259.063	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			29.15	1.300	0.200	7.579	1063.518	1071.097	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000	537.500	567.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>173.545</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	29.15	0.650	0.650	9.67			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.58			
	<b>Total = B</b>							<b>17.25</b>			
		<b>Net Qty = A - B</b>						<b>156.30</b>		<b>15648.525</b>	<b>15804.823</b>
	CH11119.40	592.410	589.640	589.240			3.17	3.220			
	CH11149.40	592.585	589.715	589.315			3.27				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.00	2.100	1.500	94.500	7644.375	7738.875	
	(b) For Lift 1.5m to 3.0m	1			30.00	1.700	1.500	76.500	2359.164	2435.664	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(c) For Lift 3.0m to 4.5m	1			30.00	1.300	0.220	8.580	259.063	267.643	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.00	1.300	0.200	7.800	1071.097	1078.897	
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			30.0			30.000	567.500	597.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>179.580</b>			
	<b>Deduction</b>										



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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 Venture)

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

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B Sewer-Himayat Bag 500-MB

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	30.00	0.650	0.650	9.95			
	soling							0.00			
	PCC							0.00			
	Murum bedding							7.80			
	<b>Total = B</b>							<b>17.75</b>			
		<b>Net Qty = A - B</b>								<b>15804.823</b>	<b>15966.653</b>
	CH11149.40	592.585	589.715	589.315			3.27	2.933			
	CH11190.00	592.010	589.815	589.415			2.60				
	<b>Item No. 3 :-</b> Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			39.15	1.700	0.000	0.000		203.982	
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			39.15	1.700	1.500	99.833		7738.875	
	(b) For Lift 1.5m to 3.0m	1			39.15	1.300	1.233	62.754		2435.664	
	(c) For Lift 3.0m to 4.5m	1			39.15	1.300	0.000	0.000		86.525	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			39.15	1.700	0.000	0.000		924.555	
	(b) For Lift 1.5m to 3.0m	1			39.15	1.300	0.200	10.179		1339.241	
	(c) For Lift 3.0m to 4.5m	1			39.15	1.300	0.000	0.000		267.643	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			39.15	1.700	0.000	0.000		570.608	
	(b) For Lift 1.5m to 3.0m	1			39.15	1.300	0.000	0.000		448.703	
	(c) For Lift 3.0m to 4.5m	1			39.15	1.300	0.000	0.000		149.607	
	<b>Item No. 5 :-</b> Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			39.15	1.700	0.000	0.000		1224.739	
	(b) For Lift 1.5m to 3.0m	1			39.15	1.300	0.000	0.000		3479.364	
	(c) For Lift 3.0m to 4.5m	1			39.15	1.300	0.000	0.000		1823.499	
	(d) For Lift 4.5m to 6.0m	1			39.15	1.300	0.000	0.000		38.334	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			39.15	1.300	0.200	10.179		1078.897	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			40.0			40.000		597.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>172.765</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	39.15	0.650	0.650	12.98			
	soling							0.00			
	PCC							0.00			
	Murum bedding							10.18			
	<b>Total = B</b>							<b>23.16</b>			
		<b>Net Qty = A - B</b>								<b>149.60</b>	<b>15966.653</b>
										<b>16116.254</b>	



19/07/2014

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-Jatwada 500-MB

**9th R A BILL MEASUREMENTS**

**Branch Sewer of B**

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>500mm Dia-At Jatwada</b>										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.5+0.15+0.15+0.5=1.3m										
	From Bottom Lift 1.50m-3.00m- 0.5+0.15+0.15+0.5+0.4=1.7m										
	From Bottom Lift 3.00m-4.50m- 0.5+0.15+0.15+0.5+0.4+0.4=2.1m										
	<b>B253</b>										
	<b>CH11535.00</b>	593.820	590.820	590.420			3.40	3.360			
	<b>CH11586.20</b>	593.840	590.920	590.520			3.32				
	<b>Item No. 3 :-</b> Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			48.30	2.100	0.500	50.715	203.982	254.697	
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			48.30	2.100	1.000	101.430	7838.707	7940.137	
	(b) For Lift 1.5m to 3.0m	1			48.30	1.700	1.500	123.165	2498.417	2621.582	
	(c) For Lift 3.0m to 4.5m	1			48.30	1.300	0.360	22.604	86.525	109.129	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			48.30	1.300	0.200	12.558	1089.076	1101.634	
	<b>Item No. 9 :-</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting use of and waste of all necessary t										
	(a) For Lift 0 to 1.5m	2			48.30		1.500	144.900	0.000	144.900	
	(b) For Lift 1.5m to 3.0m	2			48.30		1.500	144.900	0.000	144.900	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			50.0			50.000	637.500	687.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>297.914</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	48.30	0.650	0.650	16.02			
	soling							0.00			
	PCC							0.00			
	Murum bedding							12.56			
	<b>Total = B</b>							<b>28.58</b>			
	<b>Net Qty = A - B</b>							<b>269.34</b>	16116.254	16385.591	
	<b>B 254</b>										
	<b>CH11586.20</b>	593.840	590.920	590.520			3.32	3.270			
	<b>CH11647.40</b>	593.840	591.020	590.620			3.22				
	<b>Item No. 3 :-</b> Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			58.30	2.100	0.300	36.729	254.697	291.426	
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			58.30	2.100	1.200	146.916	7940.137	8087.053	
	(b) For Lift 1.5m to 3.0m	1			58.30	1.700	1.500	148.665	2621.582	2770.247	
	(c) For Lift 3.0m to 4.5m	1			58.30	1.300	0.270	20.463	109.129	129.592	



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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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B Sewer-Jatwada 500-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			7.5			7.500		1017.500	1025.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							33.263			
	<b>Deduction</b>										
	pipe area	1		0.785	7.50	0.650	0.650	2.49			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.95			
	<b>Total = B</b>							4.44			
		<b>Net Qty = A - B</b>							28.83	17894.170	17922.995
	CH11930.30	593.870	591.310	590.910			2.96	2.948			
	CH11985.90	593.925	591.390	590.990			2.94				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			54.15	1.700	1.200	110.466		348.342	458.808
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			54.15	1.700	0.300	27.617		8792.715	8820.331
	(b) For Lift 1.5m to 3.0m	1			54.15	1.300	1.448	101.932		3330.107	3432.039
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			54.15	1.300	0.200	14.079		1186.953	1201.032
	Extra Item 5]a)Providing rubble soling in 15 to 20cm thick layer	1			54.15	1.300	0.200	14.079		37.895	51.974
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for shoring and strutting use of and waste of all necessary t										
	(a) For Lift 0 to 1.5m	2			54.15		1.500	162.450		582.150	744.600
	(b) For Lift 1.5m to 3.0m	2			54.15		1.448	156.764		519.369	676.133
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			55.0			55.000		1025.000	1080.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							240.014			
	<b>Deduction</b>										
	pipe area	1		0.785	54.15	0.650	0.650	17.96			
	soling							0.00			
	PCC							0.00			
	Murum bedding							14.08			
	<b>Total = B</b>							32.04			
		<b>Net Qty = A - B</b>							207.98	17922.995	18130.970
	B'260										
	CH11985.90	593.925	591.390	590.990			2.94	2.905			
	CH12039.60	594.260	591.785	591.385			2.88				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc										
	(a) For Lift 0 to 1.5m	1			50.80	1.700	1.200	103.632		458.808	562.440
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof										
	(a) For Lift 0 to 1.5m	1			50.80	1.700	0.300	25.908		8820.331	8846.239
	(b) For Lift 1.5m to 3.0m	1			50.80	1.300	1.405	92.786		3432.039	3524.825
	(c) For Lift 3.0m to 4.5m	1			50.80	1.300	0.000	0.000		185.939	185.939



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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 Venture)

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

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B Sewer-Jatwada 500-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EXL							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			50.80	1.700	0.000	0.000	924.555	924.555	
	(b) For Lift 1.5m to 3.0m	1			50.80	1.300	0.000	0.000	1349.420	1349.420	
	(c) For Lift 3.0m to 4.5m	1			50.80	1.300	0.000	0.000	267.643	267.643	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			50.80	1.700	0.000	0.000	570.608	570.608	
	(b) For Lift 1.5m to 3.0m	1			50.80	1.300	0.000	0.000	448.703	448.703	
	(c) For Lift 3.0m to 4.5m	1			50.80	1.300	0.000	0.000	149.607	149.607	
	<b>Item No. 5 :-</b> Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			50.80	1.700	0.000	0.000	1224.739	1224.739	
	(b) For Lift 1.5m to 3.0m	1			50.80	1.300	0.000	0.000	3479.364	3479.364	
	(c) For Lift 3.0m to 4.5m	1			50.80	1.300	0.000	0.000	1823.499	1823.499	
	(d) For Lift 4.5m to 6.0m	1			50.80	1.300	0.000	0.000	38.334	38.334	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			50.80	1.300	0.200	13.208	1201.032	1214.240	
	<b>Extra Item 5)a)</b> Providing rubble soling in 15 to 20cm thick layer	1			50.80	1.300	0.200	13.208	51.974	65.182	
	<b>Item No. 9 :-</b> Open timbering in trenches of depth more than 1.5 m for shoring and strutting use of and waste of all necessary t										
	(a) For Lift 0 to 1.5m	2			50.80		1.500	152.400	744.600	897.000	
	(b) For Lift 1.5m to 3.0m	2			50.80		1.408	143.053	676.133	819.186	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			52.5			52.500	1080.000	1132.500	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							222.326			
	<b>Deduction</b>										
	pipe area	1		0.785	50.80	0.650	0.650	16.85			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							13.21			
	<b>Total = B</b>							30.06			
								192.27	18130.970	18323.240	
B	<b>CULVERT BREAKING BETWEEN 258 TO 259</b>										
1	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	Culvert Wall	2	0.450	1.700	2.000	3.060			0.000	3.060	
	Culvert Slab	1	3.000	1.700	0.200	1.020			0.000	1.020	
						4.080			0.000	4.080	



TPM JE



**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)

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B Sewer-Rahulnagar-MB

**9th R A BILL MEASUREMENTS**

**Branch Sewer of B**

Date	Particulars of work	DETAILS						Content of area	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>500mm Dia-At Rahulnagar</b>										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.5+0.15+0.15+0.5=1.3m										
	From Bottom Lift 1.50m-3.00m- 0.5+0.15+0.15+0.5+0.4=1.7m										
	From Bottom Lift 3.00m-4.50m- 0.5+0.15+0.15+0.5+0.4+0.4=2.1m										
	<b>Laying From Last Chainage to Manhole BG46.11</b>										
	CH575.60	544.709	541.835	541.635			3.07	2.777			
	CH578.70	544.265	541.985	541.785			2.48				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.65	1.700	1.500	4.208	8846.239	8850.447	
	(b) For Lift 1.5m to 3.0m	1			1.65	1.300	1.277	2.739	3524.825	3527.564	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.65	1.300	0.200	0.429	1214.240	1214.669	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			2.50			2.500	1132.500	1135.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							6.947			
	<b>Deduction</b>										
	pipe area	1		0.785	1.65	0.650	0.650	0.55			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.43			
	<b>Total = B</b>							0.98			
	<b>Net Qty = A - B</b>							5.97	18323.240	18329.211	
	<b>BG 46.11</b>										
	CH578.70	544.265	541.985	541.785			2.48	2.205			
	CH619.90	543.855	542.125	541.925			1.93				
	<b>Item No. 3 :-</b> Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			38.30	1.700	0.200	13.022	562.440	575.462	
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			38.30	1.700	1.300	84.643	8850.447	8935.090	
	(b) For Lift 1.5m to 3.0m	1			38.30	1.300	0.705	35.102	3527.564	3562.666	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			38.30	1.300	0.200	9.958	1214.669	1224.627	
	<b>Item No.17 (c) :-</b> Lowering & Laying RCC NP3 class pipe of 500mm Dia	1			40.00			40.000	1135.000	1175.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							132.767			
	<b>Deduction</b>										
	pipe area	1		0.785	38.30	0.650	0.650	12.70			
	soling							0.00			
	PCC							0.00			
	Murum bedding							9.96			
	<b>Total = B</b>							22.66			
	<b>Net Qty = A - B</b>							110.11	18329.211	18439.317	
	<b>BG 46.12</b>										
	CH619.90	543.855	542.125	541.925			1.93	2.250			
	CH678.60	544.675	542.305	542.105			2.57				



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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

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B Sewer-Rahulnagar-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.				55.80	1.700	0.200	18.972	575.462	594.434	
	(a) For Lift 0 to 1.5m	1									
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.				55.80	1.700	1.000	94.860	8935.090	9029.950	
	(a) For Lift 0 to 1.5m	1			55.80	1.300	0.750	54.405	3562.666	3617.071	
	(b) For Lift 1.5m to 3.0m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.				55.80	1.700	0.300	28.458	924.555	953.013	
	(a) For Lift 0 to 1.5m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)				55.80	1.300	0.200	14.508	1224.627	1239.135	
	(a) For Lift 0 to 1.5m	1									
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia				57.50			57.500	1175.000	1232.500	
	(a) For Lift 0 to 1.5m	1									
	Item No 30 :- Refilling the excavated trenches ...							196.695			
	Total Excavation = A										
	Deduction							18.51			
	pipe area	1		0.785	55.80	0.650	0.650	0.00			
	soling							0.00			
	PCC							14.51			
	Murum bedding							33.01			
	Total = B							163.68	18439.317	18602.997	
					Net Qty = A - B						
	BG 13							2.57			
	CH678.6	544.675	542.305	542.105				1.75	2.160		
	CH727.30	544.915	543.365	543.165							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc				45.8	1.700	0.200	15.572	594.434	610.006	
	(a) For Lift 0 to 1.5m	1									
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.				45.80	1.700	0.800	62.288	9029.950	9092.238	
	(a) For Lift 0 to 1.5m	1			45.80	1.300	0.660	39.296	3617.071	3656.368	
	(b) For Lift 1.5m to 3.0m	1			45.80	1.300	0.000	0.000	185.939	185.939	
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.				45.80	1.700	0.500	38.930	953.013	991.943	
	(a) For Lift 0 to 1.5m	1			45.80	1.300	0.000	0.000	1349.420	1349.420	
	(b) For Lift 1.5m to 3.0m	1			45.80	1.300	0.000	0.000	267.643	267.643	
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.				45.80	1.700	0.000	0.000	574.688	574.688	
	(a) For Lift 0 to 1.5m	1			45.80	1.300	0.000	0.000	448.703	448.703	
	(b) For Lift 1.5m to 3.0m	1			45.80	1.300	0.000	0.000	149.607	149.607	
	(c) For Lift 3.0m to 4.5m	1									
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.				45.80	1.700	0.000	0.000	1224.739	1224.739	
	(a) For Lift 0m to 1.5m	1			45.80	1.300	0.000	0.000	3479.364	3479.364	
	(b) For Lift 1.5m to 3.0m	1			45.80	1.300	0.000	0.000	1823.499	1823.499	
	(c) For Lift 3.0m to 4.5m	1			45.80	1.300	0.000	0.000	38.334	38.334	
	(d) For Lift 4.5m to 6.0m	1									
	Item No. 7 :- Filling in plinth and floors/ trenches etc				45.80	1.300	0.200	11.908	1239.135	1251.043	
	(a) For Lift 0 to 1.5m	1									
	Item No. 9 :- Open timbering in trenches of depth more than 1.5 m for shoring and strutting use of and waste of all necessary t				45.80		0.000	0.000	897.000	897.000	
	(a) For Lift 0 to 1.5m	2			45.80		0.000	0.000	819.186	819.186	
	(b) For Lift 1.5m to 3.0m	2									
	Item No.17 (c) :- Lowering & Laying RCC NP3 class pipe of 500mm Dia				47.50			47.500	1232.500	1280.000	
	(a) For Lift 0 to 1.5m	1									



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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 Nakhshrawadi (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 Nakhshrawadi (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

B Sewer-Rahunagar-MB

Date	Particulars of work	DETAILS				Content of area	Last measurement Page	Total Upto Date Quantity
		No	EX.L	L	B			
	Item No 30 :- Refilling the excavated trenches ...	GL	IL					
	Total Excavation = A					156.086		
	Deduction							
	pipe area	1	0.785	45.80	0.650	15.19		
	soling					0.00		
	PCC					0.00		
	Murum bedding					11.91		
	Total = B					27.10	18602.997	18731.985
						Net Qty = A - B		

Brigade Breaking in between BG46.12 TO BG46.13								
Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.								
Brigade Slab	1	8.800	8.800	0.400	30.976		0.000	30.976



Quantity	Total up to Date
9	10

Date of Measurement

P.

1

**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							
	RCC 400mm Dia- Branch Line 500mm (Green Vally)										
	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										
	B235/B253										
	CH0.00	593.820	591.120	590.920			2.90	2.600			
	CH86.20	593.520	591.420	591.220			2.30				
	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			83.54	1.600	1.500	200.496	9092.238	9292.734	
	(b) For Lift 1.5m to 3.0m	1			83.54	1.200	1.100	110.273	3656.368	3766.641	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			83.54	1.200	0.200	20.050	1251.043	1271.093	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			85.00			85.000	0.000	85.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>310.769</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	83.54	0.550	0.550	19.84			
	soling							0.00			
	PCC							0.00			
	Murum bedding							20.05			
	<b>Total = B</b>							<b>39.89</b>			
	<b>Net Qty = A - B</b>							<b>270.88</b>	<b>18731.985</b>	<b>19002.867</b>	
	B 253.1										
	CH86.20	593.520	591.420	591.220			2.30	2.350			
	CH107.40	593.750	591.550	591.350			2.40				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.54	1.600	1.250	37.080	9292.734	9329.814	
	(b) For Lift 1.5m to 3.0m	1			18.54	1.200	0.850	18.911	3766.641	3785.551	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.54	1.600	0.250	7.416	991.943	999.359	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			18.54	1.200	0.200	4.450	1271.093	1275.542	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			20.00			20.000	85.000	105.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>63.407</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	18.54	0.550	0.550	4.40			
	soling							0.00			
	PCC							0.00			
	Murum bedding							4.45			
	<b>Total = B</b>							<b>8.85</b>			
	<b>Net Qty = A - B</b>							<b>54.55</b>	<b>19002.867</b>	<b>19057.422</b>	
	B 253.2										



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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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B Sewer-Jatwada-400mm,300mm-MB

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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							
	CH107.40	593.750	591.550	591.350			2.40	2.300			
	CH143.60	593.650	591.650	591.450			2.20				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			33.54	1.600	0.300	16.099	610.006	626.106	
	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			33.54	1.600	1.200	64.397	9329.814	9394.210	
	(b) For Lift 1.5m to 3.0m	1			33.54	1.200	0.800	32.198	3785.551	3817.750	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			33.54	1.200	0.200	8.050	1275.542	1283.592	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			35.00			35.000	105.000	140.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>112.694</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	33.54	0.550	0.550	7.96			
	soling							0.00			
	PCC							0.00			
	Murum bedding							8.05			
	<b>Total = B</b>							<b>16.01</b>			
								<b>Net Qty = A - B</b>			
								<b>96.68</b>	<b>19057.422</b>	<b>19154.102</b>	
	B 253.3										
	CH143.60	593.650	591.650	591.450			2.20	2.050			
	CH199.80	593.500	591.800	591.600			1.90				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			53.54	1.600	0.300	25.699	626.106	651.805	
	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			53.54	1.600	1.200	102.797	9394.210	9497.007	
	(b) For Lift 1.5m to 3.0m	1			53.54	1.200	0.550	35.336	3817.750	3853.086	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			53.54	1.200	0.200	12.850	1283.592	1296.442	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			55.00			55.000	140.000	195.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>163.832</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	53.54	0.550	0.550	12.71			
	soling							0.00			
	PCC							0.00			
	Murum bedding							12.85			
	<b>Total = B</b>							<b>25.56</b>			
								<b>Net Qty = A - B</b>			
								<b>138.27</b>	<b>19154.102</b>	<b>19292.371</b>	
	B 253.4										
	CH199.80	593.500	591.800	591.600			1.90	1.874			
	CH225.40	593.526	591.879	591.679			1.85				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			24.27	1.600	0.250	9.708	651.805	661.513	



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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. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			24.27	1.600	1.250	48.540	9497.007	9545.547	
	(b) For Lift 1.5m to 3.0m	1			24.27	1.200	0.074	2.155	3853.086	3855.241	
	Item No. 5 :- Excavation for foundation/pipe trenches in Hard rock etc complete.										
	(a) For Lift 0m to 1.5m	1			24.27	1.600	0.300	11.650	1224.739	1236.389	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			24.27	1.200	0.200	5.825	1296.442	1302.266	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			25.00			25.000	195.000	220.000	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>72.053</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	24.27	0.550	0.550	5.76			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.82			
	<b>Total = B</b>							<b>11.59</b>			
					<b>Net Qty = A - B</b>			<b>60.46</b>	<b>19292.371</b>	<b>19352.836</b>	
	CH225.40	593.526	591.879	591.679			1.85	1.823			
	CH247.90	593.550	591.950	591.750			1.80				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			22.5	1.600	0.250	9.000	661.513	670.513	
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			22.50	1.600	1.250	45.000	9545.547	9590.547	
	(b) For Lift 1.5m to 3.0m	1			22.50	1.200	0.323	8.721	3855.241	3863.962	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			22.50	1.200	0.200	5.400	1302.266	1307.666	
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			22.5			22.500	220.000	242.500	
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>62.721</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	22.50	0.550	0.550	5.34			
	soling							0.00			
	PCC							0.00			
	Murum bedding							5.40			
	<b>Total = B</b>							<b>10.74</b>			
					<b>Net Qty = A - B</b>			<b>51.98</b>	<b>19352.836</b>	<b>19404.814</b>	
	CH247.90	593.550	591.950	591.750			1.80	1.750			
	CH296.00	593.550	592.050	591.850			1.70				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			46.77	1.600	0.200	14.966	670.513	685.479	
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										



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

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B Sewer-Jatwadi-400mm,300mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			46.77	1.600	1.300	97.282		9590.547	9687.829
	(b) For Lift 1.5m to 3.0m	1			46.77	1.200	0.250	14.031		3863.962	3877.993
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			46.77	1.200	0.200	11.225		1307.666	1318.891
	Item No.17 (a) :- Lowering & Laying RCC NP3 class pipe of 400mm Dia	1			47.50			47.500		242.500	290.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>126.279</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	46.77	0.550	0.550	11.11			
	soling							0.00			
	PCC							0.00			
	Murum bedding							11.22			
	<b>Total = B</b>							<b>22.33</b>			
								<b>Net Qty = A - B</b>		<b>103.95</b>	<b>19404.814</b>
	<b>RCC 300mm Dia</b>										<b>19508.762</b>
	<b>Width of Trench - For</b>										
	Bottom Lift 0.00-1.50m- 0.3+0.08+0.08+0.5=0.96m										
	From Bottom Lift 1.50m-3.00m- 0.3+0.08+0.08+0.5+0.4=1.36m										
	From Bottom Lift 3.00m-4.50m- 0.3+0.08+0.08+0.5+0.4+0.4 = 1.76m										
	<b>B 253.5</b>										
	CH296.00	593.550	592.050	591.850			1.70	1.600			
	CH312.20	593.370	592.070	591.870			1.50				
	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	1.360	1.500	27.622		9687.829	9715.450
	(b) For Lift 1.5m to 3.0m	1			13.54	0.960	0.100	1.300		3877.993	3879.293
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			13.54	0.960	0.200	2.600		1318.891	1321.491
	Item No. : 11 Transportation of earth Transportation charges including							4.134		0.000	4.134
	Item No. :-Extra item Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			15.00			15.000		0.000	15.000
	Item No 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							<b>28.921</b>			
	<b>Deduction</b>										
	pipe area	1		0.785	13.54	0.380	0.380	1.53			
	soling							0.00			
	PCC							0.00			
	Murum bedding							2.60			
	<b>Total = B</b>							<b>4.13</b>			
								<b>Net Qty = A - B</b>		<b>24.79</b>	<b>19508.762</b>
	<b>B 253.6</b>										<b>19533.549</b>
	CH312.20	593.370	592.070	591.870			1.50	1.600			
	CH328.40	593.600	592.100	591.900			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			13.54	1.360	1.500	27.622		9715.450	9743.072
	(b) For Lift 1.5m to 3.0m	1			13.54	0.960	0.100	1.300		3879.293	3880.593
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.54	0.960	0.200	2.600		1321.491	1324.091



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