

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

4 of 18 Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030	187.947	190.977	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.140	0.369	65.102	65.471	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527	105.739	106.266	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395	37.666	38.061	
	Item No. : 11 Transportation of earth Transportation charges							1.967	206.981	208.948	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.321			
	Deduction										
	Brick work	1			1.100	0.950	1.190	1.244			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.967			
								2.354	351.438	353.792	
	Net Qty = A - B										
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.190	0.580	2.198	2.779	
	Short Wall	2			0.450	0.230	1.190	0.246	2.779	3.025	
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.240	1.488	6.962	8.450	
	Short Wall	2			0.450		1.240	1.116	8.450	9.566	
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.240	2.629	13.061	15.690	
	(b) Short Wall	2			0.910		1.240	2.257	15.690	17.947	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.240	1.488	20.023	21.511	
	(b) Short Wall Internal	2			0.450		1.240	1.116	21.511	22.627	
	(c) Long Wall External	2			1.060		1.240	2.629	22.627	25.255	
	(d) Short Wall External	2			0.910		1.240	2.257	25.255	27.512	
	Extra Item :5(a) - Providing & Casting W/C Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374	1.121	1.495	
	Extra Item :5(b) Supplying of Heavy Duty W/C (M20) Manhole cover with frame of 1200mm dia.	1						1.000	3.000	4.000	
	MC 8.8.1										
	CAN No	582.560	581.535	581.085				1.475			
	Item No. 1 :- Excavation for foundation, pipe trenches in earth with soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.125	2.964	190.977	193.942	



Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527		106.266	106.793
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395		38.061	38.456
	Item No. : 11 Transportation of earth Transportation charges							1.795		208.948	210.743
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.887			
	Deduction										
	Brick work	1			1.100	0.950	1.025	1.071			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.795			
								2.092		353.792	355.884
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.025	0.500		3.025	3.525
	Short Wall	2			0.450	0.230	1.025	0.212		3.525	3.737
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.075	1.290		9.566	10.856
	Short Wall	2			0.450		1.075	0.968		10.856	11.823
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.075	2.279		17.947	20.226
	(b) Short Wall	2			0.910		1.075	1.957		20.226	22.182
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.075	1.290		27.512	28.802
	(b) Short Wall internal	2			0.450		1.075	0.968		28.802	29.770
	(c) Long Wall External	2			1.060		1.075	2.279		29.770	32.049
	(d) Short Wall External	2			0.910		1.075	1.957		32.049	34.005
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		1.495	1.869
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000		4.000	5.000
	RG 8.8.2										
	CH5.40	582.560	581.335	580.865			1.675				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030		193.942	196.972
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.175	0.461		65.471	65.932
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Barewadi, Siddharth Garden, Zaha, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Barewadi, Siddharth Garden, Padegaon, Golwadi, Zaha, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP 60 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. & GECP (Joint Venture)

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Roshan Gate, Champa Chowk 0.5mX 0.45m MH Excavation

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. : 11 Transportation of earth Transportation charges							1.612		214.647	216.259
	Item No. 30 - Refilling the excavated trenches										
	Total Excavation=							3.426			
	Deduction										
	Brick work	1			1.100	0.950	0.850	0.888			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.612			
					Net Qty = A - B			1.813		360.545	362.358
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	0.850	0.414		5.369	5.784
	Short Wall	2			0.450	0.230	0.850	0.176		5.784	5.960
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		0.900	1.080		16.968	18.048
	Short Wall	2			0.450		0.900	0.810		18.048	18.858
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		0.900	1.908		31.835	33.743
	(b) Short Wall	2			0.910		0.900	1.638		33.743	35.381
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		0.900	1.080		48.803	49.883
	(b) Short Wall Internal	2			0.450		0.900	0.810		49.883	50.693
	(c) Long Wall External	2			1.060		0.900	1.908		50.693	52.601
	(d) Short Wall External	2			0.910		0.900	1.638		52.601	54.239
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		2.616	2.990
	Extra Item :5(a) Supplying of Heavy Duty M15 (S.F.C.) Manhole cover with Frame of Size 1.0mX 0.75m										
	IC 1.0X0.75	1						1.000		7.000	8.000
	IC 1.0X0.75										
	CHS 40	585.795	584.640	584.190				1.605			
	Item No. 1 - Excavation for foundation/pipe trenches in earth soil, self manum etc complete.										
	(a) For Lift Dia 1.5m	1			1.550	1.700	1.150	3.830		202.506	205.536
	(b) For Lift Dia 1.2m	1			1.550	1.700	0.885	3.277		66.129	66.406
	Item No. 2 - Excavation for foundation/pipe trenches in hard manum etc complete.										
	(a) For Lift Dia 1.5m	1			1.550	1.700	0.200	0.527		108.374	108.901
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift Dia 1.5m	1			1.550	1.700	0.150	0.395		39.642	40.037
	Item No. : 12 Transportation of earth Transportation charges							1.931		216.259	218.189



Name of work: Development of Underground Sewage Collection system for Zone I to VI and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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.

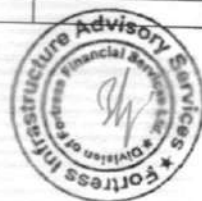
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Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						4.229				
	Deduction										
	Brick work	1			1.100	0.950	1.155	1.207			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.931			
								Net Qty = A - B			
								2.298			
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.155	0.563			
	Short Wall	2			0.450	0.230	1.155	0.239	5.960	6.523	
									6.523	6.762	
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.205	1.446			
	Short Wall	2			0.450		1.205	1.085	18.858	20.304	
									20.304	21.389	
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.205	2.555			
	(b) Short Wall	2			0.910		1.205	2.193	35.381	37.936	
									37.936	40.129	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.205	1.446			
	(b) Short Wall Internal	2			0.450		1.205	1.085	54.239	55.685	
	(c) Long Wall External	2			1.060		1.205	2.555	55.685	56.770	
	(d) Short Wall External	2			0.910		1.205	2.193	56.770	59.324	
									59.324	61.517	
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374			
									2.990	3.364	
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000			
									8.000	9.000	
	RG 8.19.2										
	CH10.00	585.995	584.740	584.290			1.705				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030			
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.205	0.540	205.536	208.566	
									66.406	66.946	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527			
									108.901	109.428	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395			
									40.037	40.432	
	Item No. : 11 Transportation of earth Transportation charges							2.035			
									218.189	220.225	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.493			



Name of work:- Development of Underground Sewerage Collection system for Zone 1 to VI and Zone Salim Ali, Construction, Erection, Testing and Commissioning of Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banowadi, Siddharth Garden, Zaita, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commissioning of Sewerage pumping stations at Banowadi, Siddharth Garden, Padegaon, Golwadi, Zaita, Ward No.98 and CIDCO (Airport), Providing, lowering, laying, jointing and testing rising main GRP DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to CIDCO (Airport).

Reshan Gate, Champa Chowk 0.6m x 0.45m MH Excavation

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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	EXL							
	Deduction										
	Brick work	1			1.100	0.950	1.255	1.311			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								2.035			
					Net Qty = A - B			2.457	364.657	367.114	
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.255	0.612	6.762	7.374	
	Short Wall	2			0.450	0.230	1.255	0.260	7.374	7.634	
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.305	1.566	21.389	22.955	
	Short Wall	2			0.450		1.305	1.175	22.955	24.129	
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.305	2.767	40.129	42.896	
	(b) Short Wall	2			0.910		1.305	2.375	42.896	45.271	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.305	1.566	61.517	63.083	
	(b) Short Wall Internal	2			0.450		1.305	1.175	63.083	64.258	
	(c) Long Wall External	2			1.060		1.305	2.767	64.258	67.025	
	(d) Short Wall External	2			0.910		1.305	2.375	67.025	69.400	
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374	3.364	3.738	
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m							1.000	9.000	10.000	
	RC 8.20.1										
	CR10.30	585.715	584.740	584.290				1.425			
	Item No. 1 - Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.075	2.833	208.566	211.399	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527	109.428	109.955	
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395	40.432	40.828	
	Item No. 11 Transportation of earth Transportation charges							1.743	220.225	221.967	
	Item No. 20 - Filling the excavated trenches										
	Total Excavation-							3.755			
	Deductive										
	Brick work	2			1.100	0.950	0.975	1.819			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			



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Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
							1.743				
							2.012		367.114	369.126	
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	0.975	0.475	7.634	8.109	
	Short Wall	2			0.450	0.230	0.975	0.202	8.109	8.311	
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.025	1.230	24.129	25.359	
	Short Wall	2			0.450		1.025	0.923	25.359	26.282	
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.025	2.173	45.271	47.444	
	(b) Short Wall	2			0.910		1.025	1.866	47.444	49.309	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.025	1.230	69.400	70.630	
	(b) Short Wall Internal	2			0.450		1.025	0.923	70.630	71.552	
	(c) Long Wall External	2			1.060		1.025	2.173	71.552	73.725	
	(d) Short Wall External	2			0.910		1.025	1.866	73.725	75.591	
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374	3.738	4.111	
	Extra item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000	10.000	11.000	
	RG 8.20.4										
	CH4.90	585.720	584.365	583.915			1.805				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030	211.399	214.429	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.305	0.804	66.946	67.750	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527	109.955	110.482	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395	40.828	41.223	
	Item No. : 11 Transportation of earth Transportation charges							2.140	221.967	224.107	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.756			
	Deduction										
	Brick work	1			1.100	0.950	1.355	1.416			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								2.140			
								2.616	369.126	371.743	



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

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Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Extra Item -4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.355	0.661	8.311	8.972	
	Short Wall	2			0.450	0.230	1.355	0.280	8.972	9.252	
	Extra Item -4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.405	1.686	26.282	27.968	
	Short Wall	2			0.450		1.405	1.264	27.968	29.232	
	Extra Item -4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.405	2.979	49.309	52.288	
	(b) Short Wall	2			0.910		1.405	2.557	52.288	54.845	
	Extra Item -4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.405	1.686	75.591	77.277	
	(b) Short Wall Internal	2			0.450		1.405	1.264	77.277	78.541	
	(c) Long Wall External	2			1.060		1.405	2.979	78.541	81.520	
	(d) Short Wall External	2			0.910		1.405	2.557	81.520	84.077	
	Extra Item -5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374	4.111	4.485	
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000	11.000	12.000	
	RI: 8.21.1										
	CR: 9.10	585.800	584.705	584.255			1.545				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030	214.429	217.459	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.045	0.119	67.750	67.868	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527	110.482	111.009	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395	41.223	41.618	
	Item No. - 11 Transportation of earth Transportation charges							1.868	224.107	225.975	
	Item No. 14 - Billings the excavated trenches										
	Total Excavation:-							4.971			
	Deduction										
	Brick work	1			1.100	0.950	1.095	1.144			
	PCC	1			1.300	1.150	0.250	0.374			
	Soiling	1			1.400	1.250	0.200	0.350			
								1.868			
	Net Qty = A - B							2.203	371.743	373.946	
	Extra Item -4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										



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.

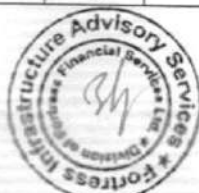
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Roshan Gate, Champa Chowk 0.6mX0.45m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upd Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Long Wall	2			1.060	0.230	1.095	0.534		9.252	9.780
	Short Wall	2			0.450	0.230	1.095	0.227		9.786	10.010
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.145	1.374		29.232	30.600
	Short Wall	2			0.450		1.145	1.031		30.606	31.630
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.145	2.427		54.845	57.270
	(b) Short Wall	2			0.910		1.145	2.084		57.272	59.350
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.145	1.374		84.077	85.451
	(b) Short Wall Internal	2			0.450		1.145	1.031		85.451	86.481
	(c) Long Wall External	2			1.060		1.145	2.427		86.481	88.900
	(d) Short Wall External	2			0.910		1.145	2.084		88.909	90.990
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		4.485	4.850
	Extra item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000		12.000	13.000
	RG 8.21.2										
	CH4.90	585.800	584.855	584.405			1.395				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.045	2.754		217.459	220.213
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527		111.009	111.536
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395		41.618	42.013
	Item No. : 11 Transportation of earth Transportation charges							1.711		225.975	227.686
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.676			
	Deduction										
	Brick work	1			1.100	0.950	0.945	0.988			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.711			
								1.965		373.946	375.910
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	0.945	0.461		10.013	10.473
	Short Wall	2			0.450	0.230	0.945	0.196		10.473	10.669



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 600mm dia pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No		L	B		D	Page		Quantity
			IL	EX.L							
	Extra Item -4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		0.995	1.194	31.637	32.831	
	Short Wall	2			0.450		0.995	0.896	32.831	33.726	
	Extra Item -4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		0.995	2.109	59.356	61.466	
	(b) Short Wall	2			0.910		0.995	1.811	61.466	63.276	
	Extra Item -4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		0.995	1.194	90.993	92.187	
	(b) Short Wall Internal	2			0.450		0.995	0.896	92.187	93.082	
	(c) Long Wall External	2			1.060		0.995	2.109	93.082	95.192	
	(d) Short Wall External	2			0.910		0.995	1.811	95.192	97.002	
	Extra Item -5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374	4.859	5.233	
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C) Manhole cover with frame of Size 0.6mx0.45m	1						1.000	13.000	14.000	
	PG 6.22.1										
	CH3.90	585.915	584.760	584.310			1.605				
	Item No. 1 - Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030	220.213	223.243	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.105	0.277	67.868	68.145	
	Item No. 2 - Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527	111.536	112.063	
	Item No. 4- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395	42.013	42.409	
	Item No. - 11 Transportation of earth Transportation charges							1.931	227.686	229.617	
	Item No. 30 - Refilling the excavated trenches										
	Total Excavation=							4.229			
	Deduction										
	Brick work	1			1.100	0.950	1.155	1.207			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.931			
	Net Qty = A - B							2.298	375.910	378.209	
	Extra Item -4(a) Construction of Brick work of 230mm thk for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.155	0.563	10.669	11.232	
	Short Wall	2			0.450	0.230	1.155	0.239	11.232	11.471	
	Extra Item -4(b) - 12mm thk. Internal Plaster for manhole etc complete.										



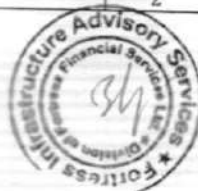
Name of work: Development of Underground Sewerage Collection system for Zone I to VI and Zone Safin Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.88 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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Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Long Wall	2			0.600		1.205	1.446		33.726	35.172
	Short Wall	2			0.450		1.205	1.085		35.172	36.257
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.205	2.555		63.276	65.831
	(b) Short Wall	2			0.910		1.205	2.193		65.831	68.024
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.205	1.446		97.002	98.448
	(b) Short Wall Internal	2			0.450		1.205	1.085		98.448	99.533
	(c) Long Wall External	2			1.060		1.205	2.555		99.533	102.088
	(d) Short Wall External	2			0.910		1.205	2.193		102.088	104.281
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		5.233	5.606
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000		14.000	15.000
	RG 8.22.2										
	CH3.90	585.915	584.860	584.410			1.505				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030		223.243	226.273
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.005	0.013		68.145	68.158
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527		112.063	112.590
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395		42.409	42.804
	Item No. : 11 Transportation of earth Transportation charges							1.826		229.617	231.443
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.966			
	Deduction										
	Brick work	1			1.100	0.950	1.055	1.102			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.826			
					Net Qty = A - B			2.139		378.209	380.348
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.055	0.514		11.471	11.986
	Short Wall	2			0.450	0.230	1.055	0.218		11.986	12.204
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.105	1.326		36.257	37.583
	Short Wall	2			0.450		1.105	0.994		37.583	38.577



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

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Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Up-to Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.105	2.343	68.024	70.367	
	(b) Short Wall	2			0.910		1.105	2.011	70.367	72.378	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.105	1.326	104.281	105.607	
	(b) Short Wall Internal	2			0.450		1.105	0.994	105.607	106.601	
	(c) Long Wall External	2			1.060		1.105	2.343	106.601	108.944	
	(d) Short Wall External	2			0.910		1.105	2.011	108.944	110.955	
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m										
	PCC	1			1.300	1.150	0.250	0.374	5.606	5.980	
	Extra Item 5 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000	15.000	16.000	
	RG 8.23.1										
	CH5.90	586.190	585.081	584.631			1.559				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030	226.273	229.304	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.059	0.155	68.158	68.314	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527	112.590	113.117	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395	42.804	43.199	
	Item No. : 11 Transportation of earth Transportation charges							1.883	231.443	233.326	
	Item No. 30 :- Refilling the excavated trenches										
	Total Excavation=							4.108			
	Deduction										
	Brick work	1			1.100	0.950	1.109	1.159			
	PCC	1			1.300	1.150	0.250	0.374			
	Soiling	1			1.400	1.250	0.200	0.350			
								1.883			
	Net Qty = A - B							2.225	380.348	382.574	
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.105	0.541	12.204	12.745	
	Short Wall	2			0.450	0.230	1.105	0.230	12.745	12.974	
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.159	1.391	38.577	39.968	
	Short Wall	2			0.450		1.159	1.043	39.968	41.011	
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										



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

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Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upt Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	(a) Long Wall	2			1.060		1.159	2.457		74.83	
	(b) Short Wall	2			0.910		1.159	2.109		76.94	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.159	1.391		112.34	
	(b) Short Wall Internal	2			0.450		1.159	1.043		113.38	
	(c) Long Wall External	2			1.060		1.159	2.457		115.84	
	(d) Short Wall External	2			0.910		1.159	2.109		117.95	
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		6.354	
	Extra item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000		17.000	
	RG 8.24.1										
	CH3.90	586.305	585.225	584.775			1.530				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030		232.334	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.030	0.079		68.393	
	(c) For Lift 3.0m to 4.5m	1			1.550	1.700	0.000	0.000		2.323	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527		113.644	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.000	0.000		71.140	
	(c) For Lift 3.0m to 4.5m	1			1.550	1.700	0.000	0.000		2.854	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395		43.594	
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.000	0.000		61.976	
	(c) For Lift 3.0m to 4.5m	1			1.550	1.700	0.000	0.000		7.476	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.000	0.000		14.509	
	(c) For Lift 3.0m to 4.5m	1			1.550	1.700	0.000	0.000		1.688	
	Item No. : 11 Transportation of earth Transportation charges							1.852		235.178	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.032			
	Deduction										
	Brick work	1			1.100	0.950	1.080	1.129			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.852			
								2.179			
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.080	0.527		13.501	
	Short Wall	2			0.450	0.230	1.080	0.224		13.725	



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 Khilla Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	
1	2	3	4	5	6	7	8	9	10

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Roshan Gate, Champa Chowk 0.6mX0.45m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.130	1.356		41.011	42.367
	Short Wall	2			0.450		1.130	1.017		42.367	43.384
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.130	2.396		76.944	79.340
	(b) Short Wall	2			0.910		1.130	2.057		79.340	81.396
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.130	1.356		117.955	119.311
	(b) Short Wall Internal	2			0.450		1.130	1.017		119.311	120.328
	(c) Long Wall External	2			1.060		1.130	2.396		120.328	122.724
	(d) Short Wall External	2			0.910		1.130	2.057		122.724	124.780
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		6.354	6.728
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C) Manhole cover with frame of Size 0.6mX0.45m	1						1.000		17.000	18.000



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), Banowadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banowadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/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

Date of Measurement	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	
1	2	3	4	5	6	7	8	9	10

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Roshan Gate, Champa Chowk MANHOLE

Extra Item No. : 3 Construction of BBM Manhole of 0.9m X 0.6m upto 1.5m Depth

Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1	3.05	RG 8.1.1	580.745	579.545	1.20	-0.30	-2.735	-9.117
2	4.55	RG 8.2.1	581.085	580.025	1.06	-0.44		
3	12.05	RG 8.5.2	581.805	580.615	1.19	-0.31		
4	15.65	RG 8.5.3	582.005	580.715	1.29	-0.21		
5	10.90	RG 8.7.1	582.765	581.575	1.19	-0.31		
6	9.05	RG 8.8.4	582.560	581.385	1.17	-0.33		
7	6.55	RG 8.10.2	581.995	581.095	0.90	-0.60		
8	2.90	RG 8.16A.1	585.005	583.900	1.10	-0.40		
9	1.90	RG 8.20.3	585.720	584.065	1.65	0.15		

Extra Item. No.02: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a

Sr.No.	Chainage	MH No	MTL	IL	Depth	Depth Difference than 1.5 m	Total Difference	Rebate/Add for Excess height (per 30 cm)
1	4.55	RG 8.10.1	581.985	581.045	0.94	-0.56	-0.985	-3.283
2	9.60	RG 8.20.2	585.715	584.640	1.08	-0.42		



Roshan Gate, Champa Chowk Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer Roshan Gate, Champa Chowk

SR NO	Description	MB/PG	ITEM 1			ITEM 2			ITEM 4			ITEM 5		ITEM 7	ITEM 11
			0-1.5	1.5-3.0	3.0-4.5	0-1.5	1.5-3.0	3.0-4.5	0-1.5	1.5-3.0	3.0-4.5	1.5-3.0	3-4.5		
1	For Pipe		713.477	166.276		562.432	224.037	6.128	173.024	220.680	4.774	46.740			293.316
2	For Manhole		232.334	68.393	2.323	113.644	71.140	2.854	43.594	61.976	7.476	14.509	1.688		235.178
	Total		945.811	234.669	2.323	676.076	295.177	8.981	216.618	282.656	12.250	61.250	1.688	146.552	528.494

CONTRACTOR



PMC



CLIENT

Jr. Engineer

Dy. Engineer

Ex. Engineer

Up to

10

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

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Roshan Gate, Champa Chowk Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer Roshan Gate, Champa Chowk

SR NO	Description	MM/FO	ITEM 12				ITEM 13			ITEM 17		ITEM 23		ITEM 23.1		ITEM 30
			100mm	200mm	250mm	315mm	160mm	200mm	250mm	315mm	400mm	450mm	2-5 m	Rebate		
1	For Pipe		21.500	100.300	16.000	116.200	21.500	100.300	16.000	116.200	398.000	182.500				1,824.25
2	For Manhole															384.753
	Total		21.500	100.300	16.000	116.200	21.500	100.300	16.000	116.200	398.000	182.500	22.00	(112.232)	(112.232)	2,209.00

CONTRACTOR



PMC



CLIENT



[Signature]
EX. Engineer

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

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

Date of Measurement	Particulars of Work	Details				Last Measurement		Total up to Date
		No.	L	B	D	Page No.	Quantity	

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Roshan Gate, Champa Chowk Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer Roshan Gate, Champa Chowk

SR NO	Description	MB/PG	EIRL 2		EIRL 3.a		EIRL 4			EIRL 5		EIRL 9.8
			Full Rate	Rebate	Full Rate	Rebate	a	b	c	d	b	
1	For Pipe											0.6X0.45
2	For Manhole		2,000	(3,203)	9,000	(9,117)	13,725	43,384			6,728	18,000
Total			2,000	(3,203)	9,000	(9,117)	13,725	43,384	81,396	124,780	6,728	18,000

3 of 3

CONTRACTOR



PMC



CLIENT

[Signature]
Ex. Engineer

[Signature]
Dy. Engineer

Jr. Engineer

Project Manager

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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Roshan Gate-02-250mm 250mm-MB

9th R A BILL MEASUREMENTS

ROSHAN GATE-02

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	RCC 250mm Dia										
	Width of Trench -										
	For Bottom Lift 0.00-1.50m- 0.25+0.06+0.06+0.5=0.87m										
	From Bottom Lift 1.50m-3.00m- 0.25+0.06+0.06+0.5+0.4=1.27m										
	From Bottom Lift 3.00m-4.50m- 0.25+0.06+0.06+0.5+0.4+0.4 = 1.67m										
	RG0 TORG01										
	CH0.00	577.200	576.050	575.850			1.35	1.425			
	CH2.45	577.448	576.148	575.948			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			1.450	0.870	1.115	1.407	0.000	1.407	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.450	0.870	0.160	0.202	0.000	0.202	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.450	0.870	0.150	0.189	0.000	0.189	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			1.450	0.870	0.200	0.252	0.000	0.252	
	Item No. 11 Transportation of earth Transportation charges including							0.362	0.000	0.362	
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			2.000			2.000	0.000	2.000	
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation = A							1.798			
	Deduction										
	pipe area	1		0.785	1.450	0.310	0.310	0.109			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							0.252			
	Total = B							0.362			
	Net Qty = A - B							1.436	0.000	1.436	
	RG01 TORG02										
	CH2.45	577.448	576.148	575.948			1.50	1.485			
	CH17.35	577.558	576.288	576.088			1.47				
	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			12.900	0.870	1.175	13.887	1.407	14.594	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	0.160	1.796	0.202	1.998	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	0.150	1.583	0.189	1.873	



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Name of work:- development of Underground Sewerage Collection system for Zone 1 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.

Page No. :-
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Roshan Gate-02-250mm 250mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	HL	EX.L							
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.900	0.870	0.200	2.245		0.252	2.49
	Item No. : 11 Transportation of earth Transportation charges including							3.218		0.362	3.579
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			14.000			14.000		2.000	16.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							16.666			
	Deduction										
	pipe area	1									
	soling			0.785	12.900	0.310	0.310	0.973			
	PCC							0.000			
	Murum bedding							0.000			
	Total = B							2.245			
								3.218			
								13.448		1.436	14.884
	RG02 TORG03										
	CH17.35	577.558	576.288	576.088							
	CH24.25	577.588	576.318	576.118			1.47				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.							1.470			
	(a) For Lift 0 to 1.5m	1			4.900	0.870	1.160	4.945		14.594	19.539
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.160	0.682		1.998	2.680
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.150	0.639		1.873	2.512
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			4.900	0.870	0.200	0.853		2.497	3.350
	Item No. : 11 Transportation of earth Transportation charges including							1.222		3.579	4.802
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			6.000			6.000		16.000	22.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							6.267			
	Deduction										
	pipe area	1									
	soling			0.785	4.900	0.310	0.310	0.370			
	PCC							0.000			
	Murum bedding							0.000			
	Total = B							0.853			
								1.222			
								5.044		14.884	19.929
	RG03 TORG04										
	CH24.25	577.588	576.318	576.118							
	CH31.15	577.618	576.468	576.268			1.47				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.							1.410			
	(a) For Lift 0 to 1.5m	1			4.900	0.870	1.100	4.689		19.539	24.229



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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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Roshan Gate-02-250mm 250mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.160	0.682		2.680	3.362
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.150	0.639		2.512	3.152
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			4.900	0.870	0.200	0.853		3.350	4.202
	Item No. : 11 Transportation of earth Transportation charges including							1.222		4.802	6.024
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia				6.000			6.000		22.000	28.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							6.011			
	Deduction										
	pipe area	1		0.785	4.900	0.310	0.310	0.370			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.853			
	Total = B							1.222			
					Net Qty = A - B			4.789		19.929	24.717
	RG04 TORG05										
	CH31.15	577.618	576.468	576.268			1.35	1.325			
	CH40.05	577.848	576.748	576.548			1.30				
	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			6.900	0.870	1.015	6.093		24.228	30.321
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	0.870	0.160	0.960		3.362	4.322
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	0.870	0.150	0.900		3.152	4.052
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			6.900	0.870	0.200	1.201		4.202	5.403
	Item No. : 11 Transportation of earth Transportation charges including							1.721		6.024	7.745
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia				8.000			8.000		28.000	36.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							7.954			
	Deduction										
	pipe area	1		0.785	6.900	0.310	0.310	0.521			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.201			
	Total = B							1.721			
					Net Qty = A - B			6.233		24.717	30.950
	RG05 TORG06										



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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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Roshan Gate-02-250mm 250mm-MB

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH40.05	577.848	576.748	576.548							
	CH46.95	578.278	576.898	576.698			1.30				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						1.58	1.440			
	(a) For Lift 0 to 1.5m	1			4.900	0.870	1.340	5.712		30.321	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									36.033	
	(a) For Lift 0 to 1.5m	1			4.900	0.870	0.100	0.426		4.052	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.870	0.200	0.853		5.403	
	Item No. : 11 Transportation of earth Transportation charges including							1.222		7.745	
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			6.000			6.000		36.000	
	Item No 30 :- Refilling the excavated trenches ...									42.000	
	Total Excavation = A							6.139			
	Deduction										
	pipe area	1									
	soling			0.785	4.900	0.310	0.310	0.370			
	PCC							0.000			
	Murum bedding							0.000			
	Total = B							0.853			
								1.222			
	Net Qty = A - B							4.916		30.950	
	RG06 TORG07									35.867	
	CH46.95	578.278	576.898	576.698							
	CH51.85	578.538	577.028	576.828			1.58				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.						1.71	1.645			
	(a) For Lift 0 to 1.5m	1									
	(b) For Lift 1.5m to 3.0m	1			2.900	1.270	1.400	5.156		36.033	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									41.186	
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.145	0.366		0.366	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.900	1.270	0.100	0.368		4.478	
	Item No. : 11 Transportation of earth Transportation charges including							0.723		8.967	
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			4.000			4.000		42.000	
	Item No 30 :- Refilling the excavated trenches ...									42.000	
	Total Excavation = A							5.890			
	Deduction										
	pipe area	1									
	soling			0.785	2.900	0.310	0.310	0.219			
	PCC							0.000			
	Murum bedding							0.000			
	Total = B							0.505			
								0.723			
	Net Qty = A - B							5.167		35.867	
	RG07 TORG08									41.034	



See

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

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Roshan Gate-02-250mm 250mm-MB

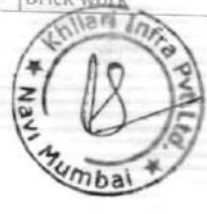
Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH51.85	578.538	577.028	576.828			1.71	1.705			
	CH54.75	578.728	577.228	577.028			1.70				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.900	1.270	1.400	1.600		41.190	42.790
	(b) For Lift 1.5m to 3.0m	1			0.900	0.870	0.205	0.161		0.366	0.526
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.900	1.270	0.100	0.114		4.847	4.961
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.900	0.870	0.200	0.157		6.760	6.917
	Item No. : 11 Transportation of earth Transportation charges including							0.224		9.691	9.915
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			2.000			2.000		46.000	48.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							1.875			
	Deduction										
	pipe area	1		0.785	0.900	0.310	0.310	0.068			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							0.157			
	Total = B							0.224			
					Net Qty = A - B			1.651		41.034	42.684
	RG08 TORG09										
	CH54.75	578.728	577.228	577.028			1.70	1.740			
	CH61.65	579.008	577.428	577.228			1.78				
	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			4.900	1.270	1.400	8.712		42.790	51.502
	(b) For Lift 1.5m to 3.0m	1			4.900	0.870	0.240	1.023		0.526	1.549
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			4.900	1.270	0.100	0.622		4.961	5.583
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			4.900	0.870	0.200	0.853		6.917	7.769
	Item No. : 11 Transportation of earth Transportation charges including							1.222		9.915	11.137
	Extra Item No 9.4:- Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			6.000			6.000		48.000	54.000
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation = A							18.358			
	Deduction										
	pipe area	1		0.785	4.900	0.310	0.310	0.370			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							0.453			
	Total = B							1.222			
					Net Qty = A - B			17.136		42.684	51.819



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9th R A BILL MEASUREMENTS OF CHAMBERS ROSHAN GATE-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth 0.9+0.5+0.3+0.3=2m										
	Area for chamber up to 1.5m-2 X 2=4m										
	RG01										
	CH2.45	577.448	576.148	575.898			1.550				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.190	3.737	0.000	3.737	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.050	0.157	0.000	0.157	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.160	0.502	0.000	0.502	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.000	0.471	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.851	0.000	1.851	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.867			
	Deduction										
	Brick work	1.00			0.785	1.160	1.160	1.300		1.373	
	soling									0.000	
	PCC	1.00			0.785	1.560	1.560	0.250		0.478	
	Murrum bedding									0.000	
	Total (B)							1.851			
								Net Qty = A-B		3.016	
	RG02								0.000	3.016	
	CH17.35	577.558	576.288	576.038			1.520				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.190	3.737	3.737	7.473	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.020	0.063	0.157	0.220	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.160	0.502	0.502	1.005	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.471	0.942	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.819	1.851	3.670	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.773			
	Deduction										
	Brick work	1.00			0.785	1.160	1.160	1.270		1.341	



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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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Roshan Gate-02-250mm Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	soling						0.000				
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murram bedding							0.000			
	Total (B)							1.819			
		Net Qty = A - B							2.954	3.016	5.970
	RG03										
	CH24.25	577.588	576.318	576.068			1.520				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.190	3.737	7.473	11.210	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.020	0.063	0.220	0.283	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.160	0.502	1.005	1.507	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	0.942	1.413	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.819	3.670	5.489	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.773			
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.270	1.341			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murram bedding							0.000			
	Total (B)							1.819			
		Net Qty = A - B							2.954	5.970	8.924
	RG04										
	CH31.15	577.618	576.468	576.218			1.400				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.090	3.423	11.210	14.632	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.160	0.502	1.507	2.010	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	1.413	1.884	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.692	5.489	7.181	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.396			
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	1.150	1.215			
	soling							0.000			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Murram bedding							0.000			



Signature

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

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Roshan Gate-02-250mm Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Up Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	Total (B)						1.692			
	RG05	Net Qty = A - B					2.704		8.924	
	CH40.05	577.848	576.748	576.498		1.350				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth (a) For Lift 0 to 1.5m	1			0.785	4.000	1.040	3.266	14.632	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard (a) For Lift 0 to 1.5m	1			0.785	4.000	0.160	0.502	2.010	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	1.884	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.640	7.181	
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=						4.239			
	Deduction									
	Brick work	1.00			0.785	1.160	1.100	1.162		
	soling							0.000		
	PCC	1.00			0.785	1.560	0.250	0.478		
	Murum bedding							0.000		
	Total (B)						1.640			
	RG06	0.9mX0.6m MH					2.599		11.627	
	CH46.95	578.278	576.898	576.648		1.630				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete. (a) For Lift 0 to 1.5m	1			2.000	1.700	1.400	4.760	17.898	
	(b) For Lift 1.5 to 3.0m	1			2.000	1.700	0.130	0.442	0.283	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			2.000	1.700	0.100	0.340	2.355	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.645	8.821	
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=						5.542			
	Deduction									
	Brick work	1.00		1	1.400	1.100	1.380	2.125		
	soling							0.000		
	PCC	1.00		1	1.600	1.300	0.250	0.520		
	Murum bedding							0.000		
	Total (B)						2.645			
	RG07	0.9mX0.6m MH					2.897		14.227	
	CH51.85	578.538	577.028	576.778		1.760				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth (a) For Lift 0 to 1.5m	1			2.000	1.700	1.400	4.760	22.658	
	(b) For Lift 1.5 to 3.0m	1			2.000	1.700	0.260	0.884	0.725	



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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 Nakshirwadi (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/DL pipe line from Golwadi SPS to Nakshirwadi (Kanchanwadi) STP and Ward No.98 to

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Roshan Gate-02-250mm Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.100	0.340		2.695	3.035
	Item No. : 11 Transportation of							2.845		11.466	14.311
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.984			
	Deduction										
	Brick work	1.00		1	1.400	1.100	1.510	2.325			
	soling							0.000			
	PCC	1.00		1	1.600	1.300	0.250	0.520			
	Murram bedding							0.000			
	Total (B)							2.845			
					Net Qty = A - B			3.139		17.124	20.262
	RG08										
	CH54.75	578.728	577.228	576.978			1.750				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.400	4.396		27.418	31.814
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.250	0.785		1.609	2.394
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		3.035	3.349
	Item No. : 11 Transportation of earth Transportation charges							2.062		14.311	16.373
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							5.495			
	Deduction										
	Brick work	1		0.785	1.160	1.160	1.500	1.584			
	soling							0.000			
	PCC	1		0.785	1.560	1.560	0.250	0.478			
	Murram bedding							0.000			
	Total (B)							2.062			
					Net Qty = A - B			3.433		20.262	23.695
	RG09										
	CH61.65	579.008	577.428	577.178			1.830				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.400	4.396		31.814	36.210
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.330	1.036		2.394	3.430
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314		3.349	3.663
	Item No. : 11 Transportation of earth Transportation charges							2.047		16.373	18.520
	Item No. 30 :- Refilling the excavated trenches ...										



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

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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	Particulars of Work	Details					Last Measurement		Total up to Date
		No.	L	B	D	Contents of Arrears	Page No.	Quantity	

1 of 1

Roshan Gate-02-250mm CHAMBER Detail

9th R A BILL MEASUREMENTS CHEMBER ROSHAN GATE-02

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm
		No				
		GL	IL	DEPTH		
B	Extra Item,: Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete					
1	RG01	577.448	576.148	1.300	1.500	-0.20
2	RG02	577.558	576.288	1.270	1.500	-0.23
3	RG03	577.588	576.318	1.270	1.500	-0.23
4	RG04	577.618	576.468	1.150	1.500	-0.35
5	RG05	577.848	576.748	1.100	1.500	-0.40
6	RG08	578.728	577.228	1.500	1.500	0.00
7	RG09	579.008	577.428	1.580	1.500	0.08
8	RG10	579.248	577.948	1.300	1.500	-0.20
						-1.53
						-5.10

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to Depth of 1.5 mtr For per 30 cm	Total Rebate Qty for 30 cm
		No				
		GL	IL	DEPTH		
B	Extra Item,: Providing and constructing on sewer.BBM manhole 0.9 m X0.6m Size and up to a depth of 1.5 M etc., complete					
1	RG06	578.278	576.898	1.380	1.500	-0.12
2	RG07	578.538	577.028	1.510	1.500	0.01
						-0.11
						-0.37




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Roshan Gate-02-250mm Quantity Node Abstract


9th R A BILL MEASUREMENTS


Branch Of Sewer ROSHAN GATE-02


SR NO	Description	MB/PG	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 12		ITEM 13	ITEM 30	ITEM 35	EIRL 2		EIRL 3	EIRL 3.a		EIRL 9.3	EIRL 9.4	
			0-1.5	1.5-3.0					250mm	250mm				Full Rate	Rebate		Rebate	Full Rate			250mm
1	For Pipe		66.766	2.146	5.492	7.162	9.402	13.650	10.900	10.900	10.900	67.740	0.050	8.000	(5.100)	2.000			60.000		60.000
2	For Manhole		40.606	3.587	2.512	3.977	20.371	20.371				30.311		8.000		2.000		(0.367)			
Total			107.372	5.733	8.004	11.139	9.402	34.021	10.900	10.900	10.900	98.051	0.050	8.000	-5.100	2.000		-0.367		60.000	60.000

CONTRACTOR

 Khilari Infra Pvt. Ltd. Authority
 Authorizing Signatory

PMC

 Fortess Infrastructure Advisory Services
 Project Engineer


 Fortess Infrastructure Advisory Services
 Project Manager

CLIENT

 Dy. Engineer


 Ex. Engineer

10
 Date