

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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kabadi pura (Buddhilline) 300mm,250mm-MB

**9th R A BILL MEASUREMENTS**

**KABADIPURA(BUDDHILINE)**

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>RCC 300mm Dia</b>										
	<b>Width of Trench -</b>										
	For 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>KB(OLD) TO KBO</b>										
	<b>CH0.00</b>	569.358	567.033	566.833			2.52	1.713			
	<b>CH16.55</b>	570.350	569.650	569.450			0.90				
	<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			15.220	0.960	1.500	21.917	0.000	21.917	
	(b) For Lift 1.5m to 3.0m	1			15.220	0.960	0.213	3.112	0.000	3.112	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.220	0.960	0.200	2.922	0.000	2.922	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							4.647	0.000	4.647	
	<b>Extra item no.:-9.4)</b> Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			16.000			16.000	0.000	16.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							25.029			
	<b>Deduction</b>										
	pipe area	1		0.785	15.220	0.380	0.380	1.725			
	soling							0.000			
	PCC							0.000			
	Murum bedding							2.922			
	<b>Total = B</b>							4.647			
	<b>Net Qty = A - B</b>							20.381	0.000	20.381	
	<b>RCC 250mm Dia</b>										
	<b>Width of Trench -</b>										
	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										
	<b>KB0(OLD)TO KB1</b>										
	<b>CH0.00</b>	569.358	567.033	566.833			2.52	1.962			
	<b>CH4.90</b>	569.280	568.080	567.880			1.40				
	<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			2.900	1.270	1.100	4.051	21.917	25.968	
	(b) For Lift 1.5m to 3.0m	1			2.900	0.870	0.462	1.166	3.112	4.278	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	1.270	0.300	1.105	0.000	1.105	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock 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 STP for Aurangabad City.

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kabadi pura (Buddhilline) 300mm,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							
	(a) For Lift 0 to 1.5m	1			2.900	1.270	0.100	0.368		0.000	0.368
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.900	0.870	0.200	0.505		2.922	3.427
	Item No. : 11 Transportation of earth Transportation charges including							0.723		4.647	5.371
	Extra Item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			4.000			4.000		0.000	4.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							6.690			
	Deduction										
	pipe area	1		0.785	2.900	0.310	0.310	0.219			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							0.505			
	Total = B							0.723			
					Net Qty = A - B			5.967		20.381	26.348
	KB1 TO KB2										
	CH4.90	569.280	568.080	567.880			1.40	1.300			
	CH23.80	569.240	568.240	568.040			1.20				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.900	0.870	0.900	13.233		25.968	39.201
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.900	0.870	0.300	4.411		1.105	5.516
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.900	0.870	0.100	1.470		0.368	1.839
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			16.900	0.870	0.200	2.941		3.427	6.367
	Item No. : 11 Transportation of earth Transportation charges including							4.216		5.371	9.586
	Extra Item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			18.000			18.000		4.000	22.000
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							19.114			
	Deduction										
	pipe area	1		0.785	16.900	0.310	0.310	1.275			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							2.941			
	Total = B							4.216			
					Net Qty = A - B			14.898		26.348	41.247
	KB3 TO KB3										
	CH21.80	569.240	568.240	568.040			1.20	1.105			
	CH24.70	569.130	568.320	568.120			1.01				
	Item No. 1 :- Excavation for foundation/pipe trenches in all typesof soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	0.705	7.912		39.201	47.113



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kabadi pura (Buddhilline) 300mm,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							
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	0.300	3.367		8.883	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	0.100	1.122	1.839	2.961	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.900	0.870	0.200	2.245	6.367	8.612	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							3.218	9.586	12.804	
	<b>Extra Item no.:-9. 4)</b> Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			14.000			14.000	22.000	36.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							12.401			
	<b>Deduction</b>										
	pipe area	1		0.785	12.900	0.310	0.310	0.973			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.245			
	<b>Total = B</b>							3.218			
								<b>Net Qty = A - B</b>	9.184	41.247	
	<b>KB3 TO KB4</b>									50.430	
	CH38.70	569.130	568.320	568.120							
	CH53.60	569.190	568.420	568.220			1.01	0.990			
	<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			12.900	0.870	0.590	6.622	47.113	53.735	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	0.300	3.367	8.883	12.250	
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	0.100	1.122	2.961	4.083	
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.900	0.870	0.200	2.245	8.612	10.857	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							3.218	12.804	16.022	
	<b>Extra item no.:-9. 4)</b> Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			14.000			14.000	36.000	50.000	
	<b>Item No 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation = A</b>							11.111			
	<b>Deduction</b>										
	pipe area	1		0.785	12.900	0.310	0.310	0.973			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.245			
	<b>Total = B</b>							3.218			
								<b>Net Qty = A - B</b>	7.893	50.430	
	<b>KB4 TO KB5</b>									58.323	
	CH53.60	569.190	568.420	568.220			0.97				



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kabadi pura (Buddhilline) 300mm,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							
	CH60.50	569.280	568.520	568.320			0.96				
	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			4.900	0.870	0.565	2.409	53.735	56.143	
	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	0.300	1.279	12.250	13.529	
	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	0.100	0.426	4.083	4.510	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.900	0.870	0.200	0.853	10.857	11.709	
	Item No. : 11 Transportation of earth Transportation charges including							1.222	16.022	17.244	
	Extra Item no.->9.4) Lowering & Laying RCC NPS class pipe of 250mm Dia	1			6.000			6.000	50.000	56.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							4.114			
	Deduction										
	pipe area	1		0.785	4.900	0.310	0.310	0.370			
	soiling							0.000			
	PCC							0.000			
	Murrum bedding							0.853			
	Total = B							1.222			
					Net Qty = A - B			2.892	58.323	61.215	
	KB2 TO KB2.1										
	CH0.00	569.240	568.240	568.040			1.20	1.195			
	CH4.90	569.280	568.290	568.090			1.19				
	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			2.900	0.870	0.995	2.510	56.143	58.654	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	13.529	13.781	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	4.510	4.762	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.900	0.870	0.200	0.505	11.709	12.214	
	Item No. : 11 Transportation of earth Transportation charges including							0.723	17.244	17.968	
	Extra Item no.->9.4) Lowering & Laying RCC NPS class pipe of 250mm Dia	1			4.000			4.000	56.000	60.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							3.015			
	Deduction										
	pipe area	1		0.785	2.900	0.310	0.310	0.219			
	soiling							0.000			



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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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kabadi pura (Buddhiline) 300mm,250mm-MB

Date	Particulars of work	DETAILS					Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B		D	Page	
	PCC						0.000			
	Murum bedding						0.505			
	<b>Total = B</b>						<b>0.723</b>			
							<b>2.292</b>		<b>61.215</b>	<b>63.506</b>
	<b>KB2.1 TO KB2.2</b>									
	CH4.90	569.280	568.290	568.090			1.19			
	CH9.80	569.450	568.680	568.480			0.97	1.080		
	<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			2.900	0.870	0.880	2.220	58.654	60.874
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	13.781	14.033
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	4.762	5.014
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.900	0.870	0.200	0.505	12.214	12.718
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							0.723	17.968	18.691
	<b>Extra item no.:-9. 4)</b> Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			4.000			4.000	60.000	64.000
	<b>Item No 30 :-</b> Refilling the excavated trenches ...									
	<b>Total Excavation = A</b>							<b>2.725</b>		
	<b>Deduction</b>									
	pipe area	1		0.785	2.900	0.310	0.310	0.219		
	soling							0.000		
	PCC							0.000		
	Murum bedding							0.505		
	<b>Total = B</b>							<b>0.723</b>		
								<b>2.001</b>	<b>63.506</b>	<b>65.508</b>
	<b>KB2.2 TO KB2.3</b>									
	CH9.80	569.450	568.680	568.480			0.97	0.955		
	CH14.70	569.710	568.970	568.770			0.94			
	<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			2.900	0.870	0.755	1.905	60.874	62.779
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murum etc complete.									
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	14.033	14.285
	<b>Item No. 4:-</b> Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	5.014	5.266
	<b>Item No. 7 :-</b> Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.900	0.870	0.200	0.505	12.718	13.223
	<b>Item No. : 11</b> Transportation of earth Transportation charges including							0.723	18.691	19.414
	<b>Extra Item no.:-9. 4)</b> Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			4.000			4.000	64.000	68.000



SP/SP

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kabadi pura (Buddhiline) 300mm,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							
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A						2.409				
	Deduction										
	pipe area	1		0.785	2.900	0.310	0.310	0.219			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.505			
	Total = B							0.723			
		Net Qty = A - B						1.686	65.508	67.194	
	KB2.3 TO KB2.4										
	CH14.70	569.710	568.970	568.770			0.94	1.020			
	CH23.60	570.050	569.150	568.950			1.10				
	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			6.900	0.870	0.820	4.922	62.779	67.701	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	0.870	0.100	0.600	14.285	14.886	
	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	0.100	0.600	5.266	5.867	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.900	0.870	0.200	1.201	13.223	14.424	
	Item No. : 11 Transportation of earth Transportation charges including							1.721	19.414	21.135	
	Extra Item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			8.000			8.000	68.000	76.000	
	Item No 30 :- Refilling the excavated trenches ...										
	Total Excavation = A							6.123			
	Deduction										
	pipe area	1		0.785	6.900	0.310	0.310	0.521			
	soling							0.000			
	PCC							0.000			
	Murum bedding							1.201			
	Total = B							1.721			
		Net Qty = A - B						4.402	67.194	71.596	
	KB2.4 TO KB2.5										
	CH23.60	570.050	569.150	568.950			1.10	1.080			
	CH28.50	570.290	569.430	569.230			1.06				
	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			2.900	0.870	0.880	2.220	67.701	69.921	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	14.886	15.138	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.900	0.870	0.100	0.252	5.867	6.119	



SP/17





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

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

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

**Details**

Last Measurement

Date of

Date	Particulars of work	DETAILS						Content of area	Last measurement Page	Last measurement Quantity	TOTAL TO DATE
		GL	HL	EX-L	L	B	D				
	Item No. 3 :- Excavation for foundation/pipe trenches in Hard ground etc. complete. (a) For 1000 to 1.5m	1			0.900	0.870	0.300	0.235		15.730	15.973
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc. complete. (a) For Lift 0 to 1.5m	1			0.900	0.870	0.100	0.078	6.719	6.798	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.900	0.870	0.200	0.157	16.129	16.285	
	Item No. : 11 Transportation of earth Transportation charges including							0.224	23.580	23.804	
	Extra Item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			2.000			2.000	88.000	90.000	
	Extra Item no.:-9. 4) Lowering & Laying RCC NP3 class pipe of 300mm Dia	1							16.000	16.000	
	Item No 30 :- Refilling the excavated trenches ...							1.045			
	<b>Total Excavation = A</b>										
	Deduction										
	pipe area	1			0.785	0.900	0.310	0.068			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.157			
	<b>Total = B</b>							0.224			
								<b>Net Qty = A - B</b>	78.209	79.030	
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge							0.12	0.00	0.120	

Signature: *[Handwritten Signature]*

**Khilari Infra Pvt.Ltd.**  
MUMBAI

**Fortress Infrastructure Advisory Services**  
Member of Fortress Financial Services Ltd. (Formerly of Fortress Financial Services Ltd.)

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

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kabadi pura (Buddhilline) Chember Measurement

**9th R A BILL MEASURMENTS OF CHEMBERS KABADIPURA(BUDDHILINE)**

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Excavation of Chamber - For 0.9m x 0.6m dia chamber up to 1.5 mt depth -0.9+0.5+0.3+0.3=2m										
	Bredth for chember up to 1.5m=0.6+0.5+0.3+0.3=1.7m										
	KB0										
	CH16.55	570.350	569.650	569.400			0.950				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.950	3.230	0.000	3.230	
	Item No. : 11 Transportation of earth Transportation charges							1.60	0.000	1.598	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.230			
	<b>Deduction</b>										
	Brick work	1.00		1	1.40	1.10	0.700	1.08			
	soling							0.00			
	PCC	1.00		1	1.60	1.30	0.25	0.52			
	Murrum bedding							0.00			
	<b>Total (B)</b>							1.60			
								1.63	0.00	1.63	
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth 0.9+0.5+0.3+0.3=2m										
	Bredth for chember up to 1.5m=2 X 2=4m										
	KB1										
	CH4.90	569.280	568.080	567.830			1.450				
	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	1.050	3.297	3.230	6.527	
	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	0.300	0.942	0.000	0.942	
	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	0.000	0.314	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.745	1.598	3.343	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							4.553			



*Spil-up*

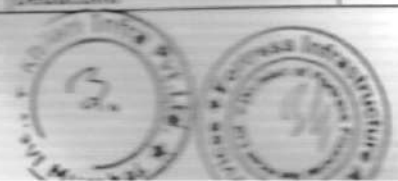
Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), 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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kabadi pura (Buddhilline) Chember Measurement

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>										
	Brick work	1.00		0.785	1.16	1.16	1.200	1.27			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							1.75			
		<b>Net Qty = A - B</b>							2.81	1.63	4.44
	<b>KB2</b>										
	CH23.80	569.240	568.240	567.990			1.250				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.850	2.669	6.527	9.196	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	0.942	1.884	
	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	0.314	0.628	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.534	3.343	4.877	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.925			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	1.000	1.06			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							1.53			
		<b>Net Qty = A - B</b>							2.39	4.44	6.83
	<b>KB3</b>										
	CH38.70	569.130	568.320	568.070			1.060				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.660	2.072	9.196	11.268	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	1.884	2.826	
	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	0.628	0.942	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.333	4.877	6.210	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							3.328			
	<b>Deduction</b>										





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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kabadi pura (Buddhiline) Chamber Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Brick work	1.00		0.785	1.16	1.16	0.810	0.86			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							<b>1.33</b>			
	<b>Net Qty = A - B</b>							<b>2.00</b>	<b>6.83</b>	<b>8.83</b>	
	<b>KB4</b>										
	<b>CH53.60</b>	569.190	568.420	568.170			1.020				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.620	1.947	11.268	13.215	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	2.826	3.768	
	<b>Item No. 4 :-</b> 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	0.942	1.256	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							1.291	6.210	7.501	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.203</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	0.770	0.81			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							<b>1.29</b>			
	<b>Net Qty = A - B</b>							<b>1.91</b>	<b>8.83</b>	<b>10.74</b>	
	<b>KB5</b>										
	<b>CH60.50</b>	569.280	568.520	568.270			1.010				
	<b>Item No. 1 :-</b> Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.610	1.915	13.215	15.131	
	<b>Item No. 2 :-</b> Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	3.768	4.710	
	<b>Item No. 4 :-</b> 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	1.256	1.570	
	<b>Item No. : 11</b> Transportation of earth Transportation charges including loading & unloading							1.280	7.501	8.782	
	<b>Item No. 30 :-</b> Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.171</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	0.760	0.80			



SP/4

**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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kabadi pura (Buddhiline) Chember Measurment

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	soling						0.00				
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>						<b>1.28</b>				
		<b>Net Qty = A - B</b>						<b>1.89</b>	<b>10.74</b>	<b>12.63</b>	
	<b>KB2.1</b>										
	<b>CH4.90</b>	569.280	568.290	568.040			1.240				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.040	3.266	15.131	18.396	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	4.710	5.024	
	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	1.570	1.884	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.523	8.782	10.305	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.894</b>				
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	0.990	1.05			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>						<b>1.52</b>				
		<b>Net Qty = A - B</b>						<b>2.37</b>	<b>12.63</b>	<b>15.00</b>	
	<b>KB2.2</b>										
	<b>CH9.80</b>	569.450	568.680	568.430			1.020				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.820	2.575	18.396	20.971	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	5.024	5.338	
	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	1.884	2.198	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.291	10.305	11.596	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.203</b>				
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	0.770	0.81			
	soling							0.00			



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

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kabadi pura (Buddhilline) Chember Measurement

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							<b>1.29</b>			
	<b>Net Qty = A - B</b>							<b>1.91</b>	<b>15.00</b>	<b>16.91</b>	
	KB2.3										
	CH14.70	569.710	568.970	568.720			0.990				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.790	2.481	20.971	23.452	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	5.338	5.652	
	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	2.198	2.512	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.259	11.596	12.855	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.109</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	0.740	0.78			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	<b>Total (B)</b>							<b>1.26</b>			
	<b>Net Qty = A - B</b>							<b>1.85</b>	<b>16.91</b>	<b>18.76</b>	
	KB2.4										
	CH23.60	570.050	569.150	568.900			1.150				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.950	2.983	23.452	26.435	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	5.652	5.966	
	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	2.512	2.826	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.428	12.855	14.283	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>							<b>3.611</b>			
	<b>Deduction</b>										
	Brick work	1.00		0.785	1.16	1.16	0.900	0.95			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			



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Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salam Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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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kabadi pura (Buddhiline) Chember Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Murram bedding						0.00				
	<b>Total (B)</b>						<b>1.43</b>				
		<b>Net Qty = A - B</b>							<b>18.76</b>	<b>20.94</b>	
	<b>KB2.5</b>										
	<b>CH28.50</b>	570.290	569.430	569.180			1.110				
	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	0.910	2.857	26.435	29.292	
	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	0.100	0.314	5.966	6.280	
	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	2.826	3.140	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.386	14.283	15.669	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.485</b>				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.860	0.91			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	<b>Total (B)</b>						<b>1.39</b>				
		<b>Net Qty = A - B</b>							<b>20.94</b>	<b>23.04</b>	
	<b>KB2.6</b>										
	<b>CH37.40</b>	570.430	569.580	569.330			1.100				
	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	0.900	2.826	29.292	32.118	
	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	0.100	0.314	6.280	6.594	
	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	3.140	3.454	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.375	15.669	17.045	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						<b>3.454</b>				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.850	0.90			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			



SP/A

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

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

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

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kabadi pura (Buddhiline) Chember Measurement

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>Total (B)</b>						1.38				
		Net Qty = A - B					2.08		23.04	25.12	
	KB1.1										
	CH2.90	569.130	568.060	567.810			1.320				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.920	2.889	32.118	35.007	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.00	0.000	0.000	0.000	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	6.594	7.536	
	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	3.454	3.768	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.608	17.045	18.653	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation(A)=</b>						4.145				
	<b>Deduction</b>										
	Brick work	1.00			0.785	1.16	1.16	1.070	1.13		
	soling							0.00			
	PCC	1.00			0.785	1.56	1.56	0.25	0.48		
	Murrum bedding							0.00			
	<b>Total (B)</b>						1.61				
		Net Qty = A - B					2.54		25.12	27.66	



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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)

Auth

Date of Measurement

kabadi pura (Buddhiline) Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer Kabadi Pura (Buddhiline)

Description	MB/PG	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 30	ITEM 35	EIRL 2		EIRL 2.a		EIRL 3		EIRL 3.a		EIRL 9.4	
		0-1.5	1.5-3.0							Full Rate	Rebate	Full Rate	Rebate	Full Rate	Rebate	250mm	300mm		
For Pipe		75.786	4.278	15.973	6.798	16.285	23.804	79.03	0.120									90.000	16.00
For Manhole		35.007	-	7.536	3.768		18.683	27.658			12.000	(24.267)	1.000	(2.667)					
<b>Total</b>		<b>110.793</b>	<b>4.278</b>	<b>23.509</b>	<b>10.566</b>	<b>16.285</b>	<b>42.457</b>	<b>106.69</b>	<b>0.120</b>		<b>12.000</b>	<b>(24.267)</b>	<b>1.000</b>	<b>(2.667)</b>				<b>90.000</b>	<b>16.00</b>

CLIENT



PMC



*B. K. Bardehi*  
See Working Engineer

Ex. Engineer

Dy. Engineer

Project Manager

Project Engineer

Authorized Signatory

Item	Quantity	Total up to Date
9		
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 Sewerage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erection, Testing and Commission of Sewerage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Kabadi pura (Buddhline) Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Sewer Kabadi Pura (Buddhline)

SR NO	Description	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 30	ITEM 35	EIRL 2	EIRL 2.a		EIRL 3	EIRL 3.a		EIRL 9.3		EIRL 9.4		
		0-1.5	1.5-3.0								0-1.5	Rebate		Full Rate	250mm	300mm	250mm	300mm	250mm	300mm
1	For Pipe	75.786	4.278	15.973	6.798	16.285	23.804	79.03	0.120											
2	For Manhole	35.007		7.536	3.768		18.653	27.658		12.000	(24.267)	1.000			(2.667)					
	Total	110.793	4.278	23.509	10.566	16.285	42.457	106.688	0.120	12.000	-24.267	1.000	90.000	16.000	-2.667	90.000	16.000	90.000	16.000	

CLIENT

Ex. Engineer

Dy. Engineer

*[Signature]*

B. K. Pardeshi  
Sectional Engineer

PMC



al up to  
Date

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 STP for Aurangabad City.

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

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Town Hall 1200mm Noor Colony 1200mm-MB

**9th R A BILL MEASUREMENTS**

**"Branch Sewer At Noor Colony"**

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>1200mm Dia</b>										
	Width of trench- For Bottom Lift 0.00-1.50m- 1.2+0.25+0.25+0.5=2.2m										
	From Bottom Lift 1.50-3.00m- 1.2+0.25+0.25+0.5+0.4=2.6m										
	From Bottom Lift 3.00-4.50m- 1.2+0.25+0.25+0.5+0.4+0.4 = 3.0m										
	From Bottom Lift 4.50-6.0m- 1.2+0.25+0.25+0.5+0.4+0.4+0.4 = 3.4m										
	From Bottom Lift 6.00-7.50m- 1.2+0.25+0.25+0.5+0.4+0.4+0.4+0.4 = 3.8m										
	NC 0										
	CH0.00	No Excavation done									
	CH31.10										
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			30.00	2.200	0.200	13.200		0.000	13.200
	Extra item no.:-5. a) Providing Rubble Soling in 15 to 20cm thk Layer				30.00	2.200	0.300	19.800		0.000	19.800
	Item No. 17 (J) :- Lowering & Laying RCC NP3 class pipe of 1200mm Dia	1			30.00			30.000		0.000	30.000
	Item No 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			
	Total	564.354	562.854	1	30.00	2.200	1.500	99.000			
	Deduction										
	pipe area	1		0.785	30.00	1.450	1.450	49.51			
	soling	1			30.00	2.200	0.300	19.80			
	PCC							13.20			
	Murum bedding							82.51			
	Total = B							16.49		0.000	16.486
		Net Qty = A - B									
	NC 1										
	CH31.10	562.594	562.959	562.394			0.200	0.300			
	CH48.30	562.844	563.009	562.444			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			15.00	2.200	0.300	9.900		0.000	9.900
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			15.00	2.200	0.200	6.600		13.200	19.800
	Extra item no.:-5. a) Providing Rubble Soling in 15 to 20cm thk Layer				15.00	2.200	0.300	9.900		19.800	29.700
	Item No. : 11 Transportation of earth Transportation charges including							9.900		0.000	9.900
	Item No. 17 (J) :- Lowering & Laying RCC NP3 class pipe of 1200mm Dia	1			15.00			15.000		30.000	45.000



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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)

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Town Hall 1200mm Noor Colony 1200mm-MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	NC 2										
	CH48.30	562.644	563.009	562.444		0.200	0.300				
	CH68.00	563.059	563.224	562.659		0.400					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			17.50	2.200	0.300	11.550	9.900	21.450	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			17.5	2.200	0.200	7.700	19.800	27.500	
	Extra item no.:-5. a) Providing Rubble Solling in 15 to 20cm thk Layer				17.50	2.200	0.300	11.550	29.700	41.250	
	Item No. : 11 Transportation of earth Transportation charges including							11.550	9.900	21.450	
	Item No. 17 (J) :- Lowering & Laying RCC NP3 class pipe of 1200mm Dia	1			17.50			17.500	45.000	62.500	
	NC 3										
	CH68.00	563.059	563.224	562.659		0.400	0.400				
	CH117.70	563.424	563.589	563.024		0.400					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			47.5	2.200	0.400	41.800	21.450	63.250	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			47.5	2.200	0.200	20.900	27.500	48.400	
	Extra item no.:-5. a) Providing Rubble Solling in 15 to 20cm thk Layer				47.50	2.200	0.400	41.800	41.250	83.050	
	Item No. : 11 Transportation of earth Transportation charges including							41.800	21.450	63.250	
	Item No. 17 (J) :- Lowering & Laying RCC NP3 class pipe of 1200mm Dia	1			47.50			47.500	62.500	110.000	
	NC 4										
	CH117.70	563.424	563.589	563.024		0.400	0.400				
	CH147.40	563.744	563.909	563.344		0.400					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			27.50	2.200	0.400	24.200	63.250	87.450	
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			27.50	2.200	0.200	12.100	48.400	60.500	
	Extra item no.:-5. a) Providing Rubble Solling in 15 to 20cm thk Layer				27.50	2.200	0.400	24.200	83.050	107.250	
	Item No. : 11 Transportation of earth Transportation charges including							24.200	63.250	87.450	
	Item No. 17 (J) :- Lowering & Laying RCC NP3 class pipe of 1200mm Dia	1			27.50			27.500	110.000	137.500	
	NC 5										
	CH147.40	563.744	563.909	563.344		0.400	0.735				
	CH175.40	564.415	563.909	563.344		1.071					
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			40.00	2.200	0.735	64.680	87.450	152.130	



M



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Town Hall 1200mm Noor Colony L-200mm DWC

**9th R A BILL MEASUREMENTS**  
**"Branch Sewer At Noor Colony"**

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 200mm Dia										
	Width of Trench - For Lift 0 to 1.50m-0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m-0.200+0.5+0.4=1.100m										
	For Lift 3.0 to 4.5m-0.200+0.5+0.4+0.4=1.600m										
	NCL 0										
	CH0.00	No Excavation done									
	CH4.80	No Excavation done									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.77	0.700	0.200	0.528	0.000	0.528	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.50			4.500	0.000	4.500	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	564.354	562.854	1	3.77	0.700	1.500	3.959			
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	3.77	0.200	0.200	0.12			
	soling	1		0.785	3.77	0.700	0.000	0.00			
	Murram bedding	1						0.53			
	PCC										
								0.65			
								3.31	0.000	3.312	
	NCL 1										
	CH4.80	No Excavation done									
	CH18.80	No Excavation done									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.94	0.700	0.200	1.672	0.528	2.199	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			13.40			13.400	4.500	17.900	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	564.354	562.854	1	11.94	0.700	1.025	8.567			
		563.489	562.939								
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	11.94	0.200	0.200	0.37			
	soling	1		0.785	11.94	0.700	0.000	0.00			
	Murram bedding	1						1.67			
	PCC										
								2.05			
								6.52	3.312	9.833	
	NCL 2										
	CH18.80	No Excavation done									
	CH26.30	No Excavation done									
	Item No. 7 :- Filling in plinth and floors/ trenches etc	1			17.44	0.700	0.200	2.442	2.199	4.641	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			18.90			18.900	17.900	36.800	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	563.489	562.939	1	17.44	0.700	0.550	6.714			
		563.659	563.109								
	Deduction of 200mm dia pipe										



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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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Town Hall 1200mm Noor Colony L-200mm DWC

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	17.44	0.200	0.200	0.55			
	soling	1		0.785	17.44	0.700	0.000	0.00			
	Murram bedding	1						2.44			
	PCC							2.99			
		Net Qty = A - B						3.73		9.833	13.558
	NCL 3										
	CH38.30	563.009	563.109	562.659			0.350	0.350			
	CH53.30	563.139	563.239	562.789			0.350				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			12.94	0.700	0.350	3.170		0.000	3.170
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.94	0.700	0.200	1.812		4.641	6.453
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.170		0.000	3.170
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			14.40			14.400		36.800	51.200
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			
	Total Excavation=	563.659	563.109	1	12.94	0.700	0.550	4.982			
		563.789	563.239								
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	12.94	0.200	0.200	0.41			
	soling	1		0.785	12.94	0.700	0.000	0.00			
	Murram bedding	1						1.81			
	PCC							2.22			
		Net Qty = A - B						2.76		13.558	16.322
	NCL 4										
	CH53.30	563.139	563.239	562.789			0.350	0.368			
	CH64.50	563.224	563.289	562.839			0.385				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			9.14	0.700	0.368	2.354		3.170	5.525
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.14	0.700	0.200	1.280		6.453	7.732
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.354		3.170	5.525
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			10.60			10.600		51.200	61.800
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			
	Total Excavation=	563.789	563.239	1	9.14	0.700	0.550	3.519			
		563.839	563.289								
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	9.14	0.200	0.200	0.29			
	soling	1		0.785	9.14	0.700	0.000	0.00			
	Murram bedding	1						1.28			
	PCC							1.57			
		Net Qty = A - B						1.95		16.322	18.274
	NCL 5										



**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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Town Hall 1200mm Noor Colony L-200mm DWC

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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							
	CH64.50	563.224	563.289	562.839			0.385	0.380			
	CH71.70	563.334	563.409	562.959			0.375				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			5.14	0.700	0.380	1.367	5.525	6.892	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.14	0.700	0.200	0.720	7.732	8.452	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.367	5.525	6.892	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			6.60			6.600	61.800	68.400	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
		563.839	563.289	1	5.14	0.700	0.550	1.979			
	Total Excavation=	563.959	563.409								
	Deduction of 200mm dia pipe pipe area	1			0.785	5.14	0.200	0.200	0.16		
	soiling	1			0.785	5.14	0.700	0.000	0.00		
	Murram bedding	1							0.72		
	PCC								0.88		
								1.10	18.274	19.372	
					Net Qty = A - B						
	NCL 6										
	CH71.70	563.334	563.409	562.959			0.375	0.363			
	CH82.70	563.359	563.459	563.009			0.350				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			8.94	0.700	0.363	2.272	6.892	9.164	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.94	0.700	0.200	1.252	8.452	9.703	
	Item No. : 11 Transportation of earth Transportation charges including							2.272	6.892	9.164	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			10.40			10.400	68.400	78.800	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
		563.959	563.409	1	8.94	0.700	0.550	3.442			
	Total Excavation=	564.009	563.459								
	Deduction of 200mm dia pipe pipe area	1			0.785	8.94	0.200	0.200	0.28		
	soiling	1			0.785	8.94	0.700	0.000	0.00		
	Murram bedding	1							1.25		
	PCC								1.53		
								1.91	19.372	21.282	
					Net Qty = A - B						
	NCL 7										
	CH82.70	563.359	563.459	563.009			0.350	0.375			
	CH85.50	563.599	563.649	563.199			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			10.74	0.700	0.375	2.819	9.164	11.983	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			10.74	0.700	0.200	1.504	9.703	11.207	



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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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Town Hall 1200mm Noor Colony L-200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Refilling the excavated	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	564.539	563.989	1	4.14	0.700	0.650	1.884			
	Total Excavation=	564.749	563.999								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	4.14	0.200	0.200	0.13		
	soling	1			0.785	4.14	0.700	0.000	0.00		
	Murru	1							0.58		
	PCC									0.71	
									1.17	28.839	30.013
					Net Qty = A - B						
	NCL 10							0.450			
	CH128.4	563.999	563.999	563.549				0.466	0.458		
	CH141.4	564.145	564.129	563.679							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete										
	(a) For Lift 1.5m	1			10.94	0.700	0.458	3.507		20.358	23.866
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			10.94	0.700	0.200	1.532		15.236	16.768
	Item No. 11 Transportation of earth Transportation charges including loading & unloading excavated							3.507		20.358	23.866
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			12.40			12.400		122.700	135.100
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	564.749	563.999	1	10.94	0.700	0.750	5.744			
	Total Excavation=	564.879	564.129								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	10.94	0.200	0.200	0.34		
	soling	1			0.785	10.94	0.700	0.000	0.00		
	Murru bedding	1							1.53		
	PCC								1.88		
									3.87	30.013	33.881
					Net Qty = A - B						
	NCL 11							0.466			
	CH141.40	564.145	564.129	563.679				0.485	0.476		
	CH150.00	564.234	564.199	563.749							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete										
	(a) For Lift 0 to 1.5m	1			6.54	0.700	0.476	2.179		23.866	26.045
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			6.54	0.700	0.200	0.916		16.768	17.683
	Item No. 11 Transportation of earth Transportation charges including loading & unloading excavated							2.179		23.866	26.045
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.00			8.000		135.100	143.100
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	564.879	564.129	1	6.54	0.700	0.700	3.205			
	Total Excavation=	564.849	564.199								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	6.54	0.200	0.200	0.21		
	soling	1			0.785	6.54	0.700	0.000	0.00		



M

**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/2014/18/L Date: 01.07.2014

Town Hall 1200mm Noor Colony L-200mm DWG

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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. 3 :- Excavation for foundation/pipe trenches in slush etc complete.				6.54	0.700	0.542	2.481		29.893	32.374
	(a) For Lift 0 to 1.5m	1			6.54	0.700	0.200	0.916		19.186	20.101
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1									
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.481		29.893	32.374
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.00			8.000		156.750	164.750
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	LL	Nos	L	B	D	Quantity			
		565.049	564.299	1	6.54	0.700	0.750	3.434			
	Total Excavation=	565.179	564.429								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	6.54	0.200	0.200	0.21		
	soling	1			0.785	6.54	0.700	0.000	0.00		
	Murrum bedding	1									
	PCC							1.12			
								2.31		39.551	41.863
					Net Qty = A - B						
	NCL 5 to NCL 5.1							0.385	0.368		
	CH0.00	563.224	563.289	562.839				0.350			
	CH13.70	563.410	563.510	563.060							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			12.67	0.700	0.368	3.264		32.374	35.638
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.67	0.700	0.200	1.774		20.101	21.875
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.264		32.374	35.638
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			13.20			13.200		164.750	177.950
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	LL	Nos	L	B	D	Quantity			
		563.839	563.289	1	12.67	0.700	0.438	3.880			
	Total Excavation=	563.835	563.510								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	12.67	0.200	0.200	0.40		
	soling	1			0.785	12.67	0.700	0.000	0.00		
	Murrum bedding	1									
	PCC							2.17			
								1.71		41.863	43.5718895
					Net Qty = A - 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.

**9th R A BILL MEASUREMENTS**  
**"Branch Sewer At Noor Colony"**

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 200mm Dia										
	Width of Trench - For Lift 0 to 1.50m-0.200+0.5=0.700m										
	For Lift 1.5 to 3.00m-0.200+0.5+0.4=1.100m										
	For Lift 3.0 to 4.5m-0.200+0.5+0.4+0.4=1.600m										
	NCR 0										
	CH0.00	No Excavation done									
	CH4.80	No Excavation done									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.77	0.700	0.200	0.528		0.000	0.528
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.50			4.500		0.000	4.500
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			
	Total Excavation=	564.354	562.854	1	3.77	0.700	1.500	3.959			
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	3.77	0.200	0.200	0.12			
	soling	1		0.785	3.77	0.700	0.000	0.00			
	Murum bedding	1						0.53			
	PCC										
								0.65			
								3.31	0.000	3.312	
		Net Qty = A - B									
	NCR 1										
	CH4.80	No Excavation done									
	CH32.30	No Excavation done									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			25.44	0.700	0.200	3.562		0.528	4.089
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			26.90			26.900		4.500	31.400
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			
	Total Excavation=	564.354	562.854	1	25.44	0.700	1.025	18.253			
		563.634	563.084								
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	25.44	0.200	0.200	0.80			
	soling	1		0.785	25.44	0.700	0.000	0.00			
	Murum bedding	1						3.56			
	PCC										
								4.36			
								13.89	3.312	17.205	
		Net Qty = A - B									
	NCR 2										
	CH32.30	No Excavation done									
	CH49.80	No Excavation done									
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			15.44	0.700	0.200	2.162		4.089	6.251
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			16.90			16.900		31.400	48.300
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			



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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 Amravati City.

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Town Hall 1200mm Noar Colony R-200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	<b>Total Excavation=</b>	563.634	563.084	1	15.44	0.700	0.550	5.944			
		563.739	563.189								
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1		0.785	15.44	0.200	0.200	0.48			
	soling	1		0.785	15.44	0.700	0.000	0.00			
	Murum bedding	1						2.16			
	PCC							2.65			
								3.30	17.205	20.503	
	<b>Net Qty = A - B</b>										
	<b>NCR 3</b>										
	CH49.80	563.089	563.189	562.739			0.350	0.350			
	CH61.10	563.159	563.259	562.809			0.350				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			9.24	0.700	0.350	2.264	0.000	2.264	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.24	0.700	0.200	1.294	6.251	7.545	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.264	0.000	2.264	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			10.70			10.700	48.300	59.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>	563.739	563.189	1	9.24	0.700	0.550	3.557			
		563.809	563.259								
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1		0.785	9.24	0.200	0.200	0.29			
	soling	1		0.785	9.24	0.700	0.000	0.00			
	Murum bedding	1						1.29			
	PCC							1.58			
								1.97	20.503	22.477	
	<b>Net Qty = A - B</b>										
	<b>NCR 4</b>										
	CH61.10	563.159	563.259	562.809			0.350	0.368			
	CH69.20	563.274	563.339	562.889			0.385				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			6.04	0.700	0.368	1.556	2.264	3.820	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.04	0.700	0.200	0.846	7.545	8.390	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.556	2.264	3.820	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			7.50			7.500	59.000	66.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>	563.809	563.259	1	6.04	0.700	0.550	2.325			
		563.889	563.339								
	<b>Deduction of 200mm dia pipe</b>										
	pipe area	1		0.785	6.04	0.200	0.200	0.19			
	soling	1		0.785	6.04	0.700	0.000	0.00			



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

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Town Hall 1200mm Noor Colony R-200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Murram bedding	1						0.85			
	PCC							1.04			
		Net Qty = A - B						1.29		22.477	23.767
	NCR 5										
	CH69.20	563.274	563.339	562.889			0.385	0.380			
	CH75.00	563.294	563.369	562.919			0.375				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			3.74	0.700	0.380	0.995	3.820	4.815	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.74	0.700	0.200	0.524	8.390	8.914	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.995	3.820	4.815	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			5.20			5.200	66.500	71.700	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			
	Total Excavation=	563.889	563.339	1	3.74	0.700	0.550	1.440			
		563.919	563.369								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	3.74	0.200	0.200	0.12		
	soling	1			0.785	3.74	0.700	0.000	0.00		
	Murram bedding	1						0.52			
	PCC							0.64			
		Net Qty = A - B						0.80		23.767	24.566
	NCR 6										
	CH75.00	563.294	563.369	562.919			0.375	0.363			
	CH84.40	563.344	563.444	562.994			0.350				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			7.34	0.700	0.363	1.865	4.815	6.680	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.34	0.700	0.200	1.028	8.914	9.941	
	Item No. : 11 Tr. spon on of earth Transportation charges including loading & unloading excavated							1.865	4.815	6.680	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.80			8.800	71.700	80.500	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	IL	Nos	L	B	D	Quantity			
	Total Excavation=	563.919	563.369	1	7.34	0.700	0.550	2.826			
		563.994	563.444								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	7.34	0.200	0.200	0.23		
	soling	1			0.785	7.34	0.700	0.000	0.00		
	Murram bedding	1						1.03			
	PCC							1.26			
		Net Qty = A - B						1.57		24.566	26.134
	NCR 7										



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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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Town Hall 1200mm Noor Colony R-200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH84.40	563.344	563.444	562.994			0.350	0.375			
	CH92.40	563.419	563.469	563.019			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			5.94	0.700	0.375	1.559	6.680	8.239	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.94	0.700	0.200	0.832	9.941	10.773	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.559	6.680	8.239	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			7.40			7.400	80.500	87.900	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	LL	Nos	L	B	D	Quantity			
	Total Excavation=-	563.994	563.444	1	5.94	0.700	0.550	2.287			
		564.019	563.469								
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	5.94	0.200	0.200	0.19			
	soiling	1		0.785	5.94	0.700	0.000	0.00			
	Murram bedding	1						0.83			
	PCC							1.02			
								1.27	26.134	27.402	
	NCR 8										
	CH92.40	563.419	563.469	563.019			0.400	0.412			
	CH103.60	563.644	563.669	563.219			0.425				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			9.14	0.700	0.412	2.636	8.239	10.875	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.14	0.700	0.200	1.280	10.773	12.053	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.636	8.239	10.875	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			10.60			10.600	87.900	98.500	
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	LL	Nos	L	B	D	Quantity			
	Total Excavation=-	564.019	563.469	1	9.14	0.700	0.550	3.519			
		564.219	563.669								
	Deduction of 200mm dia pipe										
	pipe area	1		0.785	9.14	0.200	0.200	0.29			
	soiling	1		0.785	9.14	0.700	0.000	0.00			
	Murram bedding	1						1.28			
	PCC							1.57			
								1.95	27.402	29.355	
	NCR 9										
	CH103.60	563.644	563.669	563.219			0.425	0.438			
	CH103.60	563.804	563.804	563.354			0.450				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										



3



**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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Joint Venture

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Town Hall 1200mm Noor Colony R-200mm DWC

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			2.64	0.700	0.438	0.809		10.875	11.684
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.64	0.700	0.200	0.370		12.053	12.422
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.809		10.875	11.684
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.10			4.100		98.500	102.600
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	564.219	563.669	1	2.64	0.700	0.550	1.016			
		564.354	563.804								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	2.64	0.200	0.200	0.08		
	soling	1			0.785	2.64	0.700	0.000	0.00		
	Murram bedding	1						0.37			
	PCC										
								0.45			
								0.56		29.355	29.919
	NCR 10										
	CH108.30	563.804	563.804	563.354				0.450	0.458		
	CH117.70	564.015	563.999	563.549				0.466			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			7.34	0.700	0.458	2.353		11.684	14.037
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.34	0.700	0.200	1.028		12.422	13.450
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.353		11.684	14.037
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.80			8.800		102.600	111.400
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	I.L.	Nos	L	B	D	Quantity			
	Total Excavation=	564.354	563.804	1	7.34	0.700	0.650	3.340			
		564.749	563.999								
	Deduction of 200mm dia pipe										
	pipe area	1			0.785	7.34	0.200	0.200	0.23		
	soling	1			0.785	7.34	0.700	0.000	0.00		
	Murram bedding	1						1.03			
	PCC										
								1.26			
								2.08		29.919	32.000
	NCR 11										
	CH117.70	564.015	563.999	563.549				0.466	0.476		
	CH127.90	564.034	563.999	563.549				0.485			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			8.14	0.700	0.476	2.712		14.037	16.750
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.14	0.700	0.200	1.140		13.450	14.589



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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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Town Hall 1200mm Noor Colony R-200mm DWC

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. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			9.00			9.000		129.600	138.600
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	LL	Nos	L	B	D	Quantity			
	Total Excavation=	564.949	564.019	1	7.54	0.700	0.875	4.618			
	Deduction of 200mm dia pipe				0.785	7.54	0.200	0.200	0.24		
	pipe area	1			0.785	7.54	0.700	0.000	0.00		
	soling	1							1.06		
	Murram bedding										
	PCC								1.29		
									3.33	37.960	41.286
					Net Qty = A - B						
	NCR 14							0.535	0.542		
	CH146.70	564.284	564.199	563.749				0.550			
	CH156.80	564.369	564.269	563.819							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			8.04	0.700	0.542	3.050		21.942	24.993
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.04	0.700	0.200	1.126		16.645	17.770
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.050		21.942	24.993
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			9.50			9.500		138.600	148.100
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	LL	Nos	L	B	D	Quantity			
	Total Excavation=	565.019	564.199	1	8.04	0.700	0.840	4.728			
	Deduction of 200mm dia pipe				0.785	8.04	0.200	0.200	0.25		
	pipe area	1			0.785	8.04	0.700	0.000	0.00		
	soling	1							1.13		
	Murram bedding										
	PCC								1.38		
									3.35	41.286	44.635
					Net Qty = A - B						
	NCR 15							0.550	0.450		
	CH156.80	564.369	564.269	563.819				0.350			
	CH162.80	564.279	564.379	563.929							
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			4.97	0.700	0.450	1.566		24.993	26.558
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.97	0.700	0.200	0.696		17.770	18.466
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.566		24.993	26.558
	Item No. 13 :- (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			5.50			5.500		148.100	153.600
	Item No. 30 :- Refilling the excavated trenches ...	Refilled Level	LL	Nos	L	B	D	Quantity			



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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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Town Hall 1200mm Noor Colony 0.9 X 0.6 size MH

**9<sup>th</sup> RA BILL MEASUREMENTS (Excavation of Manhole)**

**"Branch Sewer At Noor Colony"**

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 X 0.6 m Manhole (upto a depth of 2.0m)-										
	Length for Manhole=0.9+0.23+0.23+0.5+0.5=2.36m										
	Breadth for Manhole=0.6+0.23+0.23+0.5+0.5=2.06m										
	NCL 3										
	CH38.30	563.009	563.109	562.609			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.400	1.945	0.000	1.945	
	Item No. : 11 Transportation of earth Transportation charges							1.945	0.000	1.945	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							1.945			
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								1.222			
					<b>Net Qty = A - B</b>			0.723	0.000	0.723	
	NCL 4										
	CH53.30	563.139	563.239	562.739			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.400	1.945	1.945	3.889	
	Item No. : 11 Transportation of earth Transportation charges							1.945	1.945	3.889	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							1.945			
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								1.222			
					<b>Net Qty = A - B</b>			0.723	0.723	1.446	
	NCL 5										
	CH64.50	563.224	563.289	562.789			0.435				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.435	2.115	3.889	6.004	
	Item No. : 11 Transportation of earth Transportation charges							2.115	3.889	6.004	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							2.115			
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								1.222			



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

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Town Hall 1200mm Noor Colony 0.9 X 0.6 size MH

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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							
		Net Qty = A - B						0.893		1.446	2.339
	NCL 6										
	CH71.70	563.334	563.409	562.909			0.425				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.425	2.066	6.004	8.070	
	Item No. : 11 Transportation of earth Transportation charges							2.066	6.004	8.070	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.066			
	Deduction										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								1.222			
		Net Qty = A - B						0.844		2.339	3.183
	NCL 7										
	CH82.70	563.359	563.459	562.959			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.400	1.945	8.070	10.015	
	Item No. : 11 Transportation of earth Transportation charges							1.945	8.070	10.015	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.945			
	Deduction										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								1.222			
		Net Qty = A - B						0.723		3.183	3.906
	NCL 8										
	CH95.50	563.599	563.649	563.149			0.450				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.450	2.188	10.015	12.203	
	Item No. : 11 Transportation of earth Transportation charges							2.188	10.015	12.203	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.188			
	Deduction										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								1.222			
		Net Qty = A - B						0.966		3.906	4.872
	NCL 9										
	CH122.20	563.964	563.989	563.489			0.475				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.475	2.309	12.203	14.512	
	Item No. : 11 Transportation of earth Transportation charges							2.309	12.203	14.512	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								1.222			
		Net Qty = A - B						0.966		3.906	4.872
								2.309			



2



**Name of work:-** Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at 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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Town Hall 1200mm Noor Colony 0.9 X 0.6 size MH

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B		D	Page	
		GL	IL	EX.L						
	<b>Deduction</b>									
	Brick work	1			1.440	1.140	0.000	0.000		
	PCC	1			1.640	1.340	0.250	0.549		
	Soling	1			1.640	1.640	0.250	0.672		
								1.222		
								<b>Net Qty = A - B</b>	4.872	5.959
	<b>NCL 10</b>									
	<b>CH128.40</b>	563.999	563.999	563.499			0.500			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.									
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.500	2.431	14.512	16.943
	Item No. : 11 Transportation of earth Transportation charges							2.431	14.512	16.943
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation=</b>							2.431		
	<b>Deduction</b>									
	Brick work	1			1.440	1.140	0.000	0.000		
	PCC	1			1.640	1.340	0.250	0.549		
	Soling	1			1.640	1.640	0.250	0.672		
								1.222		
								<b>Net Qty = A - B</b>	5.959	7.168
	<b>NCL 11</b>									
	<b>CH141.40</b>	564.145	564.129	563.629			0.516			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.									
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.516	2.509	16.943	19.451
	Item No. : 11 Transportation of earth Transportation charges							2.509	16.943	19.451
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation=</b>							2.509		
	<b>Deduction</b>									
	Brick work	1			1.440	1.140	0.026	0.026		
	PCC	1			1.640	1.340	0.250	0.549		
	Soling	1			1.640	1.640	0.250	0.672		
								1.248		
								<b>Net Qty = A - B</b>	7.168	8.429
	<b>NCL 12</b>									
	<b>CH150.00</b>	564.234	564.199	563.699			0.535			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.									
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.535	2.601	19.451	22.052
	Item No. : 11 Transportation of earth Transportation charges							2.601	19.451	22.052
	Item No. 30 :- Refilling the excavated trenches ...									
	<b>Total Excavation=</b>							2.601		
	<b>Deduction</b>									
	Brick work	1			1.440	1.140	0.035	0.057		
	PCC	1			1.640	1.340	0.250	0.549		
	Soling	1			1.640	1.640	0.250	0.672		
								1.279		
								<b>Net Qty = A - B</b>	8.429	9.750
	<b>NCL 13</b>									
	<b>CH154.15</b>	564.255	564.205	563.705			0.550			
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.									
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.550	2.674	22.052	24.726



3

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

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Date	Particulars of work	DETAILS					Content of arrears	Last measurment		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges						2.674		22.052	24.726	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>2.674</b>				
	<b>Deduction</b>										
	Brick work				1.440	1.140	0.050	0.082			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
							<b>1.304</b>				
	<b>Net Qty = A - B</b>						<b>1.370</b>		9.750	11.120	
	<b>NCL 14</b>										
	CH164.85	564.384	564.299	563.799			0.585				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.585	2.844	24.726	27.570	
	Item No. : 11 Transportation of earth Transportation charges							2.844	24.726	27.570	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>2.844</b>				
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.085	0.140			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
							<b>1.361</b>				
	<b>Net Qty = A - B</b>						<b>1.483</b>		11.120	12.603	
	<b>NCL 15</b>										
	CH173.45	564.529	564.429	563.929			0.600				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.600	2.917	27.570	30.487	
	Item No. : 11 Transportation of earth Transportation charges							2.917	27.570	30.487	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>2.917</b>				
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.100	0.164			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
							<b>1.386</b>				
	<b>Net Qty = A - B</b>						<b>1.531</b>		12.603	14.13	
	<b>NCL 5.1</b>										
	CH13.70	563.410	563.510	563.010			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.400	1.945	30.487	32.43	
	Item No. : 11 Transportation of earth Transportation charges							1.945	30.487	32.43	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>						<b>1.945</b>				
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
							<b>1.222</b>				
	<b>Net Qty = A - B</b>						<b>0.723</b>		14.134	14.85	



**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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Town Hall 1200mm Noor Colony 0.9 X 0.6 size MH

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH49.80	563.089	563.189	562.689			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.400	1.945	32.432	34.376	
	Item No. : 11 Transportation of earth Transportation charges							1.945	32.432	34.37	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>1.945</b>			
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								<b>1.222</b>			
					<b>Net Qty = A - B</b>			<b>0.723</b>	<b>14.857</b>	<b>15.580</b>	
	NCR 4										
	CH61.10	563.159	563.259	562.759			0.400				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.400	1.945	34.376	36.321	
	Item No. : 11 Transportation of earth Transportation charges							1.945	34.376	36.321	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>1.945</b>			
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								<b>1.222</b>			
					<b>Net Qty = A - B</b>			<b>0.723</b>	<b>15.580</b>	<b>16.303</b>	
	NCR 5										
	CH69.20	563.274	563.339	562.839			0.435				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.435	2.115	36.321	38.436	
	Item No. : 11 Transportation of earth Transportation charges							2.115	36.321	38.436	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>2.115</b>			
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			
	PCC	1			1.640	1.340	0.250	0.549			
	Soling	1			1.640	1.640	0.250	0.672			
								<b>1.222</b>			
					<b>Net Qty = A - B</b>			<b>0.893</b>	<b>16.303</b>	<b>17.196</b>	
	NCR 6										
	CH75.00	563.294	563.369	562.869			0.425				
	Item No. 3 :- Excavation for foundation/pipe trenches in slush etc complete.										
	(a) For Lift 0 to 1.5m	1			2.360	2.060	0.425	2.066	38.436	40.502	
	Item No. : 11 Transportation of earth Transportation charges							2.066	38.436	40.502	
	Item No. 30 :- Refilling the excavated trenches ...										
	<b>Total Excavation=</b>							<b>2.066</b>			
	<b>Deduction</b>										
	Brick work	1			1.440	1.140	0.000	0.000			



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