

5 of 8

Roshan Gate, Champa Chowk 300mm 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. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			1.30	0.815	0.100	0.106		134.570	134.676
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.207		273.560	273.767
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			2.00			2.000		53.500	55.500
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.240			
	Deduction of 315mm dia pipe										
	pipe area	1.00									
	soling			0.785	1.30	0.315	0.315	0.10			
	PCC							0.00			
	Murrum bedding							0.00			
								0.11			
								0.21			
	RG 8.17 to Old Manhole							1.03		1706.832	1707.865
	CH0.00	585.205	584.255	584.155							
	CH16.10	585.400	584.380	584.280			1.050				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.							1.09			
	(a) For Lift 0 to 1.5m	1			14.50	0.815	0.940	11.108		504.421	515.529
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.50	0.815	0.150	1.773		155.210	156.982
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			14.50	0.815	0.100	1.182		134.676	135.858
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							2.311		273.767	276.078
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			15.20			15.200		55.500	70.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.881			
	Deduction of 315mm dia pipe										
	pipe area	1.00									
	soling			0.785	14.50	0.315	0.315	1.13			
	PCC							0.00			
	Murrum bedding							0.00			
								1.18			
								2.31			
	RG 8.17 to Old Manhole							10.57		1707.865	1718.434
	CH0.00	585.205	584.255	584.155							
	CH16.10	585.400	584.380	584.280			1.050				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.							1.09			
	(a) For Lift 0 to 1.5m	1			14.50	0.815	0.940	11.108		515.529	526.637
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			14.50	0.815	0.150	1.773		156.982	158.755



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

Roshan Gate, Champa Chowk 300mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.00	0.815	0.100	0.652		137.749	138.401
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							1.275		279.776	281.051
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			8.70			8.700		95.300	104.000
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.433			
	Deduction of 315mm dia pipe										
	pipe area										
	soling	1.00		0.785	8.00	0.315	0.315	0.62			
	PCC							0.00			
	Murrum bedding							0.00			
								0.65			
								1.28			
	RG 8.21 to RG 8.21.1							6.16		1734.992	1741.149
	CH0.00										
	CH9.10	585.605	584.580	584.480			1.125				
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.	585.800	584.705	584.605			1.195	1.16			
	(a) For Lift 0 to 1.5m										
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.				7.50	0.815	1.010	6.174		539.403	545.576
	(a) For Lift 0 to 1.5m										
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)				7.50	0.815	0.150	0.917		160.796	161.713
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated				7.50	0.815	0.100	0.611		138.401	139.012
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia							1.195		281.051	282.246
	Item No. 30 :- Refilling the excavated trenches ...							8.200		104.000	112.200
	Total Excavation=							7.091			
	Deduction of 315mm dia pipe										
	pipe area										
	soling	1.00		0.785	7.50	0.315	0.315	0.58			
	PCC							0.00			
	Murrum bedding							0.00			
								0.61			
								1.20			
	RG 8.21 to RG 8.21.2							5.90		1741.149	1747.044
	CH0.00										
	CH4.90	585.605	584.730	584.630			0.975				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc	585.800	584.855	584.755			1.045	1.01			
	(a) For Lift 0 to 1.5m										
	(b) For Lift 1.5m to 3.0m				3.30	0.815	0.000	0.000		653.366	653.366
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.				3.30	0.815	0.000	0.000		166.276	166.276
	(a) For Lift 0 to 1.5m										
	(b) For Lift 1.5m to 3.0m				3.30	0.815	0.860	2.313		545.576	547.889
					3.30	0.815	0.000	0.000		224.037	224.037



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

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

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

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

Roshan Gate, Champa Chowk 300mm 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			3.30	0.815	0.860	2.313		545.576	547.889
	(b) For Lift 1.5m to 3.0m	1			3.30	0.815	0.000	0.000		224.037	224.037
	(c) For Lift 3.0m to 4.5m	1			3.30	0.815	0.000	0.000		6.128	6.128
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.30	0.815	0.150	0.403		161.713	162.117
	(b) For Lift 1.5m to 3.0m	1			3.30	0.815	0.000	0.000		220.680	220.680
	(c) For Lift 3.0m to 4.5m	1			3.30	0.815	0.000	0.000		4.774	4.774
	ITEM NO.5 :- Excavation for foundation / pipe trenches in laterite rock masses by chiselling etc. Completed.										
	(a) For Lift 1.5m to 3.0m	1			3.30	0.815	0.000	0.000		46.740	46.740
	Item No. 7 :- Filling in plinth and drains/ trenches etc complete (bedding)	1			3.30	0.815	0.100	0.269		139.012	139.281
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading excavated							0.526		282.246	282.772
	Item No. 13 -> (d) Lowering & Laying of Polyethylene DWC pipe of 315mm dia	1			4.00			4.000		112.200	116.200
	Item No. 14:- Backfilling the excavated trenches										
	Total Excavation:-							2.716			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	3.30	0.315	0.315	0.26			
	rolling							0.00			
	DWC							0.00			
	Manman bedding							0.27			
								0.53			
	Net Qty = A - B							2.19		1747.044	1749.235



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

9th R A BILL MEASUREMENTS
Sewer at Roshan Gate Champa Chowk

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No			L	B	D		Page	Quantity	
		GL	HL	EX.L							
	DWC - 250mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-0.250+0.5=0.750m										
	For Lift 1.5 to 3.00m-0.250+0.5+0.4=1.150m										
	For Lift 3.0 to 4.5m-0.250+0.5+0.4+0.4=1.550m										
	RG 8.1 to RG 8.1.1										
	CH0.00	580.545	579.445	579.345			1.200	1.25			
	CH3.05	580.745	579.545	579.445			1.300				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.45	0.750	0.900	0.304	653.366	653.670	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.45	0.750	0.200	0.068	547.889	547.957	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.45	0.750	0.150	0.051	162.117	162.167	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			0.45	0.750	0.100	0.034	139.281	139.315	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.056	282.772	282.828	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			2.00			2.000	0.000	2.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							0.422			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	0.45	0.250	0.250	0.02			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.03			
								0.06			
								0.37	1749.235	1749.601	
	RG 8.5 to RG 8.5.2										
	CH0.00	581.605	580.515	580.415			1.190				
	CH12.05	581.805	580.615	580.515			1.290	1.24			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			9.45	0.750	0.890	6.308	653.670	659.978	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			9.45	0.750	0.200	1.418	547.957	549.374	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			9.45	0.750	0.150	1.063	162.167	163.230	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			9.45	0.750	0.100	0.709	139.315	140.023	



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 Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Providing, lowering, laying, jointing and testing rising main (RPM) pipe line from Golwadi SPS to Nakshirawadi (Kanchanwadi) STP and Ward No.98 to

9th R A BILL MEASUREMENTS
Sewer at Roshan Gate Champa Chowk

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=1.500m										
	RG 8.3 to RG 8.3.1										
	CH0.00	580.885	579.850	579.750			1.135				
	CH5.90	581.085	579.950	579.850			1.235	1.19			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			3.45	0.700	0.840	2.029	660.826	662.855	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.45	0.700	0.200	0.483	549.592	550.075	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.45	0.700	0.150	0.362	163.394	163.756	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			3.45	0.700	0.100	0.242	140.132	140.374	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.350	284.180	284.530	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			5.00			5.000	0.000	5.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.874			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	3.45	0.200	0.200	0.108			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							0.242			
								0.350			
								Net Qty = A - B			
	RG 8.5.2 to RG 8.5.3							2.524	1758.266	1760.790	
	CH12.05	581.805	580.615	580.515			1.290				
	CH15.65	582.005	580.715	580.615			1.390	1.34			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			1.15	0.700	0.990	0.797	662.855	663.652	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.15	0.700	0.200	0.161	550.075	550.236	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.15	0.700	0.150	0.121	163.756	163.877	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			1.15	0.700	0.100	0.081	140.374	140.454	



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 resting rising main (RPM) pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to

Roshan Gate, Champa Chowk 200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurment		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	(a) For Lift 0 to 1.5m	1			2.95	0.700	0.200	0.413		551.279	551.692
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.95	0.700	0.150	0.310		164.659	164.969
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.95	0.700	0.100	0.207		140.976	141.182
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.299		285.402	285.701
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.50			4.500		16.700	21.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction of 200mm dia pipe							2.643			
	pipe area										
	soling	1.00		0.785	2.95	0.200	0.200	0.093			
	PCC							0.000			
	Murrum bedding							0.207			
								0.299			
	RG 8.8 to RG 8.8.3										
	CH0.00									1766.577	1768.921
	CH8.90	582.360	581.335	581.235				1.125			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc	582.560	581.435	581.335				1.18			
	(a) For Lift 0 to 1.5m	1			6.45	0.700	0.830	3.747		669.327	673.074
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.45	0.700	0.200	0.903		551.692	552.595
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.45	0.700	0.150	0.677		164.969	165.646
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.45	0.700	0.100	0.452		141.182	141.634
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.654		285.701	286.355
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.00			8.000		21.200	29.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=										
	Deduction of 200mm dia pipe							5.328			
	pipe area										
	soling	1.00		0.785	6.45	0.200	0.200	0.203			
	PCC							0.000			
	Murrum bedding							0.000			
								0.452			
								0.654			
	RG 8.8 to RG 8.8.4										
	CH0.00	582.360	581.285	581.185				1.175		1768.921	1773.594



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

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Roshan Gate, Champa Chowk 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							
	CHS.05	582.560	581.385	581.285			1.275				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc (a) For Lift 0 to 1.5m	1			6.45	0.700	0.870	3.928		673.074	677.002
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			6.45	0.700	0.200	0.903		552.595	553.498
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			6.45	0.700	0.150	0.677		165.646	166.323
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			6.45	0.700	0.100	0.452		141.634	142.085
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.654		286.355	287.010
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			8.00			8.000		29.200	37.200
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.508			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	6.45	0.200	0.200	0.203			
	soiling							0.000			
	PCC							0.000			
	Murrum bedding							0.452			
								0.654			
								4.854		1773.594	1778.449
	Net Qty = A - B										
	RG 8.11 to Old Manhole										
	CHS.09	581.955	581.100	581.000			0.955				
	CHS.10	582.155	581.200	581.100			1.055	1.01			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc (a) For Lift 0 to 1.5m	1			3.50	0.700	0.660	1.617		677.002	678.619
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			3.50	0.700	0.200	0.490		553.498	553.988
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			3.50	0.700	0.150	0.368		166.323	166.691
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			3.50	0.700	0.100	0.245		142.085	142.330
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.355		287.010	287.364
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.50			4.500		37.200	41.700
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.475			
	Deduction of 200mm dia pipe										



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

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Roshan Gate, Champa Chowk 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	1.00		0.785	3.50	0.200	0.200	0.110			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.245			
								0.355			
								2.120	1778.449	1780.568	
	RG 8.11 to Old Manhole										
	CH0.00	581.955	580.950	580.850				1.105			
	CH4.40	582.155	581.050	580.950				1.205			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			2.80	0.700	0.810	1.588	678.619	680.207	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.80	0.700	0.200	0.392	553.988	554.380	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.80	0.700	0.150	0.294	166.691	166.985	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			2.80	0.700	0.100	0.196	142.330	142.526	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.284	287.364	287.648	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			3.80			3.800	41.700	45.500	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.274			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	2.80	0.200	0.200	0.088			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.196			
								0.284			
								1.990	1780.568	1782.558	
	RG 8.12 to Old Manhole										
	CH0.00	582.005	581.130	581.030				0.975			
	CH11.90	582.205	581.230	581.130				1.075			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			10.30	0.700	0.680	4.903	680.207	685.110	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			10.30	0.700	0.200	1.442	554.380	555.822	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			10.30	0.700	0.150	1.082	166.985	168.067	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			10.30	0.700	0.100	0.721	142.526	143.247	



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Roshan Gate, Champa Chowk 200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	No IL	EX.L	L	B	D		Page	Quantity	
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading excavated							1.044		287.648	288.693
	Item No. 13 - (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			11.30			11.300		45.500	56.800
	Item No. 30 - Refilling the excavated trenches ...										
	Total Excavation=							7.426			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	10.30	0.200	0.200	0.323			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							0.721			
								1.044			
	RG 8.12 to Old Manhole							6.382		1782.558	1788.940
	CH0.00	582.005	581.030	580.930							
	CH4.60	582.205	581.130	581.030			1.075	1.13			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			3.00	0.700	0.780	1.638		685.110	686.748
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.00	0.700	0.200	0.420		555.822	556.242
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.00	0.700	0.150	0.315		168.066	168.381
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			3.00	0.700	0.100	0.210		143.247	143.457
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading excavated							0.304		288.693	288.997
	Item No. 13 - (b) Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.00			4.000		56.800	60.800
	Item No. 30 - Refilling the excavated trenches ...										
	Total Excavation=							2.373			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	3.00	0.200	0.200	0.094			
	soiling							0.000			
	PCC							0.000			
	Murum bedding							0.210			
								0.304			
	RG 8.15 to Old Manhole							2.069		1788.940	1791.009
	CH0.00	584.815	583.690	583.590							
	CH9.60	585.015	583.790	583.690			1.225	1.28			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			8.00	0.700	0.930	5.208		686.748	691.956
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										



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

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Roshan Gate, Champa Chowk 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			8.00	0.700	0.200	1.120		556.242	557.362
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.00	0.700	0.150	0.840		168.381	169.221
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.00	0.700	0.100	0.560		143.457	144.017
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.811		288.997	289.808
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			9.00			9.000		60.800	69.800
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.168			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	8.00	0.200	0.200	0.251			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.560			
								0.811			
								Net Qty = A - B			
	RG 8.19 to 8.19.1							6.357		1791.009	1797.366
	CH0.00	585.595	584.540	584.440			1.155				
	CH6.40	585.795	584.640	584.540			1.255	1.20			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc										
	(a) For Lift 0 to 1.5m	1			3.95	0.700	0.850	2.350		691.956	694.306
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			3.95	0.700	0.200	0.553		557.362	557.915
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.95	0.700	0.150	0.415		169.221	169.636
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.95	0.700	0.100	0.277		144.017	144.294
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.401		289.808	290.209
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			5.50			5.500		69.800	75.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.318			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	3.95	0.200	0.200	0.124			
	soling							0.000			
	PCC							0.000			
	Murram bedding							0.277			
								0.401			
								Net Qty = A - B			
	RG 8.19.1 to 8.19.2							2.917		1797.366	1800.283
	CH6.40	585.795	584.640	584.540			1.255				

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Refer: G.M., Champs Drive 22/06/2016

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		GL	HL	EXL	L	B	D		Page	Quantity	
	CH08.00	585.915	584.740	584.640			1.355				
	Item No. 1 - Excavation for foundation/pipe trenches in earth soils. Soft marum etc (a) For Lift 0 to 1.5m	1			1.90	0.700	0.960	1.277		694.306	695.583
	Item No. 2 - Excavation for foundation/pipe trenches in Hard marum etc complete. (a) For Lift 0 to 1.5m	1			1.90	0.700	0.200	0.266		557.915	558.181
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			1.90	0.700	0.150	0.200		169.636	169.835
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			1.90	0.700	0.100	0.133		144.294	144.427
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading excavated							0.193		290.209	290.401
	Item No. 13 - (b) Lowering & Laying of Polyethylene DWC pipe of 200mm dia	1			3.00			3.000		75.300	78.300
	Item No. 30 - Refilling the excavated trenches										
	Total Excavation=							1.742			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	1.90	0.200	0.200	0.060			
	soiling							0.000			
	PCC							0.000			
	Marum bedding							0.133			
								0.193			
								1.550		1800.283	1801.833
	RC 8.20 to 8.20.3										
	CH08.00	585.520	583.965	583.865			1.655	1.70			
	CH1.90	585.720	584.065	583.965			1.755				
	Item No. 13 - (b) Lowering & Laying of Polyethylene DWC pipe of 200mm dia	1			1.00			1.000		78.300	79.300
	RC 8.20 to 8.20.4										
	CH08.00	585.520	584.265	584.165			1.355	1.40			
	CH4.90	585.720	584.365	584.265			1.455				
	Item No. 1 - Excavation for foundation/pipe trenches in earth soils. Soft marum etc (a) For Lift 0 to 1.5m	1			2.45	0.700	1.050	1.801		695.583	697.384
	Item No. 2 - Excavation for foundation/pipe trenches in Hard marum etc complete. (a) For Lift 0 to 1.5m	1			2.45	0.700	0.200	0.343		558.181	558.524
	Item No. 4 - Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			2.45	0.700	0.150	0.257		169.835	170.093
	Item No. 7 - Filling in plinth and floors/ trenches etc complete (bedding)	1			2.45	0.700	0.100	0.172		144.427	144.598
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading excavated							0.248		290.401	290.650



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 GRPDI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to CIDCO (Airport).

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Roshan Gate, Champa Chowk 200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE
		No							Page	Quantity	
		GL	IL	EX.L	L	B	D				
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.00			4.000		79.300	83.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.401			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	2.45	0.200	0.200	0.077			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.172			
								0.248			
	RG 8.22 to 8.22.1							2.153		1801.833	1803.985
	CH0.00	585.715	584.660	584.560			1.155				
	CH3.90	585.915	584.760	584.660			1.255	1.20			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			1.45	0.700	0.850	0.863		697.384	698.246
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.45	0.700	0.200	0.203		558.524	558.727
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.45	0.700	0.150	0.152		170.093	170.245
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
	(a) For Lift 0 to 1.5m	1			1.45	0.700	0.100	0.102		144.598	144.700
	Item No. : 11 Transportation of earth										
	Transportation charges including loading & unloading excavated							0.147		290.650	290.797
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			3.00			3.000		83.300	86.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.218			
	Deduction of 200mm dia pipe										
	pipe area	1.00		0.785	1.45	0.200	0.200	0.046			
	soling							0.000			
	PCC							0.000			
	Murum bedding							0.102			
								0.147			
	RG 8.22 to 8.22.2							1.071		1803.985	1805.056
	CH0.00	585.715	584.760	584.660			1.055				
	CH3.90	585.915	584.860	584.760			1.155	1.10			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			1.45	0.700	0.750	0.761		698.246	699.008
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.45	0.700	0.200	0.203		558.727	558.930
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



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Roshan Gate, Champa Chowk 200mm DWC

Date	Particulars of work	DETAILS						Content of area	Last measurement		TOTAL TO DATE	
		No			L	B	D		Page	Quantity		
		GL	IL	EXL								
	(a) For Lift 0 to 1.5m	1			1.45	0.700	0.150	0.152		170.245	170.397	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			1.45	0.700	0.100	0.102		144.700	144.801	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.147		290.797	290.944	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			3.00			3.000		86.300	89.300	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=							1.117				
	Deduction of 200mm dia pipe											
	pipe area	1.00		0.785	1.45	0.200	0.200	0.046				
	soiling							0.000				
	PCC							0.000				
	Murram bedding							0.102				
								0.147				
								Net Qty = A - B		0.969	1805.056	1806.026
	RG 8.23 to 8.23.1											
	CH0.00	585.990	584.981	584.881				1.109				
	CH5.90	586.190	585.081	584.981				1.209	1.16			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc											
	(a) For Lift 0 to 1.5m	1			3.45	0.700	0.810	1.956		699.008	700.964	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.											
	(a) For Lift 0 to 1.5m	1			3.45	0.700	0.200	0.483		558.930	559.413	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.											
	(a) For Lift 0 to 1.5m	1			3.45	0.700	0.150	0.362		170.397	170.759	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			3.45	0.700	0.100	0.242		144.801	145.043	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.350		290.944	291.294	
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			5.00			5.000		89.300	94.300	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation=							2.801				
	Deduction of 200mm dia pipe											
	pipe area	1.00		0.785	3.45	0.200	0.200	0.108				
	soiling							0.000				
	PCC							0.000				
	Murram bedding							0.242				
								0.350				
								Net Qty = A - B		2.452	1806.026	1808.477
	RG 8.23 to Old Manhole											
	CH0.00	585.990	584.881	584.781				1.209				
	CH6.90	586.190	584.981	584.881				1.309	1.26			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc											



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Auz. 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 GRPDI 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/UIDSSMF/2014/184 Date 01.07.2014

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

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Roshan Gate, Champa Chowk 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			5.30	0.700	0.910	3.376			704.340
	(b) For Lift 1.5m to 3.0m	1			5.30	0.700	0.000	0.000		700.964	166.276
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									166.276	166.276
	(a) For Lift 0 to 1.5m	1			5.30	0.700	0.200	0.742		559.413	560.155
	(b) For Lift 1.5m to 3.0m	1			5.30	0.700	0.000	0.000		224.037	224.037
	(c) For Lift 3.0m to 4.5m	1			5.30	0.700	0.000	0.000		6.128	6.128
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									6.128	6.128
	(a) For Lift 0 to 1.5m	1			5.30	0.700	0.150	0.557		170.759	171.316
	(b) For Lift 1.5m to 3.0m	1			5.30	0.700	0.000	0.000		220.680	220.680
	(c) For Lift 3.0m to 4.5m	1			5.30	0.700	0.000	0.000		4.774	4.774
	ITEM NO. 5 :- Excavation for foundation / pipe trenches in laterite rock masses by chhiseling etc. Completed.									4.774	4.774
	(b) For Lift 1.5m to 3.0m	1			5.30	0.700	0.000	0.000		46.740	46.740
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			5.30	0.700	0.100	0.371		145.043	145.414
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							0.537		291.294	291.831
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			6.00			6.000		94.300	100.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.675			
	Deduction of 200mm dia pipe										
	pipe area	1.00			0.785	5.30	0.200	0.200		0.166	
	soling									0.000	
	PCC									0.000	
	Murrum bedding									0.371	
										0.537	
										4.137	
										1808.477	1812.614



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

Book No. :-

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

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

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

Roshan Gate, Champa Chowk 160mm 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							
	Item No. 2 -> Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1		0.00	0.660	0.200	0.000		562.432	562.432
	(b) For Lift 1.5m to 3.0m	1		0.00	0.660	0.000	0.000		224.037	224.037
	(c) For Lift 3.0m to 4.5m	1		0.00	0.660	0.000	0.000		6.128	6.128
	Item No. 4 -> Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1		0.00	0.660	0.150	0.000		173.024	173.024
	(b) For Lift 1.5m to 3.0m	1		0.00	0.660	0.000	0.000		220.680	220.680
	(c) For Lift 3.0m to 4.5m	1		0.00	0.660	0.000	0.000		4.774	4.774
	ITEM NO. 5 -> Excavation for foundation / pipe trenches in laterite rock masses by chhiseling etc. Completed.									
	(a) For Lift 1.5m to 3.0m	1		0.00	0.660	0.000	0.000		46.740	46.740
	Item No. 7 -> Filling in plinth and floors/ trenches etc complete (bedding)	1		0.00	0.660	0.100	0.000		146.552	146.552
	Item No. - 11 Transportation of earth Transportation charges including loading & unloading excavated						0.000		293.316	293.316
	Extra Item Lowering & Laying of Polyethylene DWC pipe of 160mm Dia	1		1.00			1.000		20.500	21.500
	Item No. 30 -> Refilling the excavated trenches									
	Total Excavation:-						0.000			
	Deduction of 200mm dia pipe pipe area	1.00		0.785	0.00	0.160	0.160		0.000	
	soiling								0.000	
	PCC								0.000	
	Murrum bedding								0.000	
	Net Qty = A - B						0.000		1824.251	1824.251



9th RA BILL MEASUREMENTS (Excavation of Manhole)

Roshan Gate Champa Chowk

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 1.50m dia Manhole (upto a depth of 2.0m to 5.0m)- 1.50+0.35+0.35+0.5+0.5=3.20m										
	Breadth for Manhole=3.2*3.2=10.24m										
	RG 8.4										
	CH75.50	581.235	578.775	578.525			2.710				
	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	10.240	0.380	3.055	0.000	3.055	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.970	7.797	0.000	7.797	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.070	0.563	0.000	0.563	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	0.000	1.206	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.140	9.164	0.000	9.164	
	Item No. : 11 Transportation of earth Transportation charges							6.907	0.000	6.907	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							21.784			
	Deduction										
	Brick work	1			0.785	2.280	2.280	0.460	1.877		
		1			0.785	1.540	1.540	2.000	3.723		
	PCC	1			0.785	2.580	2.580	0.250	1.306		
	Soling	1			0.785	2.580	2.580	0.000	0.000		
								6.907			
								14.877	0.000	14.877	
	Net Qty = A - B										
	RG 8.5										
	CH94.30	581.605	578.995	578.745			2.860				
	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	10.240	0.800	6.431	3.055	9.485	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.550	4.421	7.797	12.218	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.100	0.804	0.563	1.367	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	1.206	2.412	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.740	5.948	9.164	15.112	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.520	4.180	0.000	4.180	
	Item No. : 11 Transportation of earth Transportation charges							7.519	6.907	14.426	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.990			
	Deduction										
	Brick work	1			0.785	2.280	2.280	0.610	2.489		
		1			0.785	1.540	1.540	2.000	3.723		



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

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Roshan Gate, Champa Chowk 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								7.519			
				Net Qty = A - B				15.471	14.877	30.348	
	RG 8.6										
	CH118.10	581.970	579.150	578.900			3.070				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.600	4.823	9.485	14.308	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.750	6.029	12.218	18.247	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.250	2.010	1.367	3.376	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	2.412	3.617	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.850	6.833	15.112	21.945	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.400	3.215	4.180	7.395	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.070	0.563	0.000	0.563	
	Item No. : 11 Transportation of earth Transportation charges							8.376	14.426	22.802	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							24.678			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.820	3.346			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								8.376			
				Net Qty = A - B				16.302	30.348	46.650	
	RG 8.7										
	CH159.40	582.565	579.675	579.425			3.140				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.600	4.823	14.308	19.131	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.750	6.029	18.247	24.276	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.100	0.804	3.376	4.180	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	3.617	4.823	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.960	7.717	21.945	29.662	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.440	3.537	7.395	10.932	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.140	1.125	0.563	1.688	
	Item No. : 11 Transportation of earth Transportation charges							8.662	22.802	31.463	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							25.241			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.890	3.632			



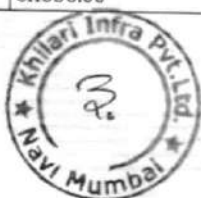
Roshan Gate, Champa Chowk 1.5m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	PCC	1		0.785	1.540	1.540	2.000	3.723			
	Soling	1		0.785	2.580	2.580	0.250	1.306			
		1		0.785	2.580	2.580	0.000	0.000			
								8.662			
				Net Qty = A - B				16.579		46.650	63.229
	RG 8.8										
	CH188.20	582.360	580.135	579.885			2.475				
	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	10.240	0.600	4.823	19.131	23.954	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.500	4.019	24.276	28.295	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.400	3.215	4.823	8.038	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.530	4.260	29.662	33.922	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.445	3.577	10.932	14.509	
	Item No. : 11 Transportation of earth Transportation charges							7.057	31.463	38.521	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							19.895			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.725	2.959			
	PCC	1		0.785	1.540	1.540	1.500	2.793			
	Soling	1		0.785	2.580	2.580	0.250	1.306			
		1		0.785	2.580	2.580	0.000	0.000			
								7.057			
				Net Qty = A - B				12.838		63.229	76.067
	RG 8.9										
	CH214.50	582.065	580.260	580.010			2.055				
	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	10.240	0.500	4.019	23.954	27.974	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.550	4.421	28.295	32.716	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.450	3.617	8.038	11.656	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.555	4.461	33.922	38.383	
	Item No. : 11 Transportation of earth Transportation charges							6.009	38.521	44.530	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							16.519			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.605	2.469			
	PCC	1		0.785	1.540	1.540	1.200	2.234			
	Soling	1		0.785	2.580	2.580	0.250	1.306			
		1		0.785	2.580	2.580	0.000	0.000			
								6.009			
				Net Qty = A - B				10.510		76.067	86.576
	RG 8.10										
	CH243.30	581.825	580.370	579.920			1.905				



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

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Brick work	1		0.785	2.280	2.280	0.735	2.999			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								8.029			
								15.966	169.966	185.932	
	RG 8.17										
	CH474.90	585.205	582.255	582.005			3.200				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.980	7.878	64.950	72.828	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.370	2.974	82.554	85.529	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	19.172	31.229	
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.200	1.608	0.000	1.608	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	21.302	22.508	
	Item No. : 11 Transportation of earth Transportation charges							8.906	105.259	114.165	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							25.723			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.950	3.977			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								8.906			
								16.816	185.932	202.748	
	RG 8.18										
	CH508.70	585.235	582.555	582.305			2.930				
	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	10.240	1.150	9.244	72.828	82.072	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.650	5.225	17.564	22.789	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	85.529	87.136	
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.780	6.270	31.229	37.499	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft										
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	22.508	23.713	
	Item No. : 11 Transportation of earth Transportation charges							7.805	114.165	121.970	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							23.553			
	Deduction										
	Brick work	1		0.785	2.280	2.280	0.680	2.775			
		1		0.785	1.540	1.540	2.000	3.723			
	PCC	1		0.785	2.580	2.580	0.250	1.306			
	Soling	1		0.785	2.580	2.580	0.000	0.000			
								7.805			
								15.748	202.748	218.496	
	RG 8.19										
	CH536.00	585.595	582.690	582.440			3.155				



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

Roshan Gate, Champa Chowk 1.5m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		CL	No IL	EXL	L	B		D	Page	
	Item No. 1 - Excavation for foundation pipe trenches in earth with soft murrum etc complete.									
	a) For lift 0 to 1.5m	1			0.785	10.240	1.150	9.244		91.316
	b) For lift 1.5m to 3.0m	1			0.785	10.240	0.150	1.206		23.995
	Item No. 2 - Excavation for foundation pipe trenches in Hard murrum etc complete.									
	a) For lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		87.136
	b) For lift 1.5m to 3.0m	1			0.785	10.240	1.350	10.852		48.351
	c) For lift 3.0m to 4.5m	1			0.785	10.240	0.155	1.246		2.854
	Item No. 4 - Excavation for foundation pipe trenches in soft murrum etc complete.									
	a) For lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		23.713
	Item No. 10 - Transportation of earth Transportation charges							8.723		121.970
	Item No. 10 - Billings the excavated trenches									24.919
	Total Excavation							25.361		
	Deductions									
	a) Soft work	1		0.785	2.280	2.280	0.905	3.693		
	b) H.C.	1		0.785	1.540	1.540	2.000	3.723		
	c) P.C.	1		0.785	2.580	2.580	0.250	1.306		
	d) Billings	1		0.785	2.580	2.580	0.000	0.000		
								8.723		
	Net Qty = A - B							16.638	218.496	235.135
	RC 120									
	CR 120	585.520	582.815	582.565			2.955			
	Item No. 1 - Excavation for foundation pipe trenches in earth with soft murrum etc complete.									
	a) For lift 0 to 1.5m	1			0.785	10.240	1.150	9.244		91.316
	b) For lift 1.5m to 3.0m	1			0.785	10.240	0.650	5.225		29.220
	Item No. 2 - Excavation for foundation pipe trenches in Hard murrum etc complete.									
	a) For lift 0 to 1.5m	1			0.785	10.240	0.200	1.608		88.744
	b) For lift 1.5m to 3.0m	1			0.785	10.240	0.805	6.471		54.822
	Item No. 4 - Excavation for foundation pipe trenches in soft murrum etc complete.									
	a) For lift 0 to 1.5m	1			0.785	10.240	0.150	1.206		24.919
	Item No. 10 - Transportation of earth Transportation charges							7.907		130.693
	Item No. 10 - Billings the excavated trenches									26.125
	Total Excavation							23.753		
	Deductions									
	a) Soft work	1		0.785	2.280	2.280	0.705	2.877		
	b) H.C.	1		0.785	1.540	1.540	2.000	3.723		
	c) P.C.	1		0.785	2.580	2.580	0.250	1.306		
	d) Billings	1		0.785	2.580	2.580	0.000	0.000		
								7.907		
	Net Qty = A - B							15.847	235.135	250.982
	RC 120									
	CR 120	585.605	582.880	582.630			2.975			
	Item No. 1 - Excavation for foundation pipe trenches in earth with soft murrum etc complete.									
	a) For lift 0 to 1.5m	1			0.785	10.240	1.150	9.244		100.560
	b) For lift 1.5m to 3.0m	1			0.785	10.240	0.150	1.206		29.220
	Item No. 2 - Excavation for foundation pipe trenches in Hard murrum etc complete.									



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

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

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

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

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Roshan Gate, Champa Chowk 1.5m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EXL	L	B		D	Page	
	Total Excavation=						24.991			
	Deduction									
	Brick work	1		0.785	2.280	2.280	0.659	2.689		
		1		0.785	1.540	1.540	2.000	3.723		
	PCC	1		0.785	2.580	2.580	0.250	1.306		
	Soling	1		0.785	2.580	2.580	0.200	1.045		
							8.764			
							16.227	282.359	298.586	
	RC R.24									
	CM541.00	586.105	583.375	582.925			3.180			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	1.150	9.244	128.293	137.537
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	1.500	12.058	47.708	59.766
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.180	1.447	0.876	2.323
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.200	1.608	95.175	96.782
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	71.140	71.140
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	2.854	2.854
	Item No. 4 :- Excavation for foundation/pipe trenches in soft									
	(a) For Lift 0 to 1.5m	1			0.785	10.240	0.150	1.206	29.742	30.948
	(b) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	61.976	61.976
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	7.476	7.476
	Item No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete									
	(a) For Lift 1.5m to 3.0m	1			0.785	10.240	0.000	0.000	14.509	14.509
	(c) For Lift 3.0m to 4.5m	1			0.785	10.240	0.000	0.000	1.688	1.688
	Item No. :- 28 Transportation of earth Transportation charges							9.054	162.850	171.904
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=						25.562			
	Deduction									
	Brick work	1		0.785	2.280	2.280	0.730	2.979		
		1		0.785	1.540	1.540	2.000	3.723		
	PCC	1		0.785	2.580	2.580	0.250	1.306		
	Soling	1		0.785	2.580	2.580	0.200	1.045		
							9.054			
							16.508	298.586	315.094	



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

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Roshan Gate, Champa Chowk 0.9mX 0.6m MH Excavation

9th RA BILL MEASURMENTS (Excavation of Manhole)
Roshan Gate Champa Chowk

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 Manhole (upto a depth of 1.5m)- 0.90+0.25+0.25+0.6=2.0m Breadth 0.60+0.25+0.25+0.5=1.70m										
	RG 8.1.1 CH3.05	580.745	579.545	579.095			1.650				
	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	1.150	3.910	137.537	141.447	
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.150	0.510	59.766	60.276	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.200	0.680	96.782	97.462	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.150	0.510	30.948	31.458	
	Item No. : 11 Transportation of earth Transportation charges							2.844	171.904	174.748	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.610			
	Deduction										
	Brick work	1			1.400	1.100	1.200	1.848			
	PCC	1			1.600	1.300	0.250	0.520			
	Soling	1			1.700	1.400	0.200	0.476			
								2.844			
	Net Qty = A - B							2.766	315.094	317.860	
	RG 8.2.1 CH4.55	581.085	580.025	579.575			1.510				
	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	1.150	3.910	141.447	145.357	
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.010	0.034	60.276	60.310	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.200	0.680	97.462	98.142	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.150	0.510	31.458	31.968	
	Item No. : 11 Transportation of earth Transportation charges							2.628	174.748	177.377	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.134			
	Deduction										
	Brick work	1			1.400	1.100	1.060	1.632			
	PCC	1			1.600	1.300	0.250	0.520			
	Soling	1			1.700	1.400	0.200	0.476			
								2.628			
	Net Qty = A - B							2.506	317.860	320.366	
	RG 8.5.2 CH12.05	581.805	580.615	580.165			1.640				



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

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Roshan Gate, Champa Chowk 0.9mX 0.6m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.150	0.510		32.988	33.498
	Item No. : 11 Transportation of earth Transportation charges							2.829		183.188	186.016
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.576			
	Deduction										
	Brick work	1			1.400	1.100	1.190	1.833			
	PCC	1			1.600	1.300	0.250	0.520			
	Soling	1			1.700	1.400	0.200	0.476			
								2.829			
								Net Qty = A - B		326.047	328.794
	RG 8.8.4										
	CH9.05	582.560	581.385	580.935			1.625				
	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	1.150	3.910		157.087	160.997
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.125	0.425		62.078	62.503
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.200	0.680		100.182	100.862
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.150	0.510		33.498	34.008
	Item No. : 11 Transportation of earth Transportation charges							2.806		186.016	188.822
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.525			
	Deduction										
	Brick work	1			1.400	1.100	1.175	1.810			
	PCC	1			1.600	1.300	0.250	0.520			
	Soling	1			1.700	1.400	0.200	0.476			
								2.806			
								Net Qty = A - B		328.794	331.514
	RG 8.10.2										
	CH6.55	581.995	581.095	580.645			1.350				
	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	1.000	3.400		160.997	164.397
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.200	0.680		100.862	101.542
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.150	0.510		34.008	34.518
	Item No. : 11 Transportation of earth Transportation charges							2.382		188.822	191.204
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.590			
	Deduction										
	Brick work	1			1.400	1.100	0.900	1.386			
	PCC	1			1.600	1.300	0.250	0.520			
	Soling	1			1.700	1.400	0.200	0.476			
								2.382			
								Net Qty = A - B		331.514	333.722
	RG 8.16A.1							2.208		331.514	333.722



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), Banerwadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), Construction, Erecting, Testing and Commissioning of Sewage pumping stations at Banerwadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport), Provisioning, lowering, laying jointing and testing rising main GRP/IL pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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Rohan Gate, Champa Chowk 0.9mX 0.6m MH Excavation

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		CL	IL	EX.L							
	CH2.90	585.005	583.900	583.450			1.555				
	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	1.150	3.910	164.397	168.307	
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.055	0.187	62.503	62.690	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.200	0.680	101.542	102.222	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.150	0.510	34.518	35.028	
	Item No. : 11 Transportation of earth Transportation charges							2.698	191.204	193.902	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.287			
	Deduction										
	Brick work	1			1.400	1.100	1.105	1.702			
	PCC	1			1.600	1.300	0.250	0.520			
	Soling	1			1.700	1.400	0.200	0.476			
								2.698			
	Net Qty = A - B							2.589	333.722	336.311	
	RG 8.20.3										
	CH1.90	585.720	584.065	583.615			2.105				
	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	1.150	3.910	168.307	172.217	
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.605	2.057	62.690	64.747	
	(c) For Lift 3.0m to 4.5m	1			2.000	1.700	0.000	0.000	2.323	2.323	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.200	0.680	102.222	102.902	
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.000	0.000	71.140	71.140	
	(c) For Lift 3.0m to 4.5m	1			2.000	1.700	0.000	0.000	2.854	2.854	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			2.000	1.700	0.150	0.510	35.028	35.538	
	(b) For Lift 1.5m to 3.0m	1			2.000	1.700	0.000	0.000	61.976	61.976	
	(c) For Lift 3.0m to 4.5m	1			2.000	1.700	0.000	0.000	7.476	7.476	
	ITEM No. 5:- Excavation for foundation / pipe trenches in granite rock masses etc complete										
	(a) For lift 1.5m to 3.0m	1			2.000	1.700	0.000	0.000	14.509	14.509	
	(c) For Lift 3.0m to 4.5m	1			2.000	1.700	0.000	0.000	1.688	1.688	
	Item No. : 11 Transportation of earth Transportation charges							3.545	193.902	197.446	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							7.157			
	Deduction										
	Brick work	1			1.400	1.100	1.655	2.549			
	PCC	1			1.600	1.300	0.250	0.520			
	Soling	1			1.700	1.400	0.200	0.476			
								3.545			
	Net Qty = A - B							3.612	336.311	339.923	



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

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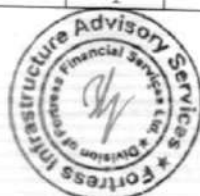
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Roshan Gate, Champa Chowk 0.9m MH Excavation

9th RA BILL MEASUREMENTS (Excavation of Manhole)

Roshan Gate Champa Chowk

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 0.9 mt.dia chamber up to Depth of 1.5 mt.-0.9+0.5+0.3+0.3=2.0m										
	Bredth for chamber up to Depth of 1.5m= 2 * 2=4m										
	RG 8.10.1										
	CH4.55	581.985	581.045	580.595			1.390				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.040	3.266	172.217	175.483	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628	102.902	103.530	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	35.538	36.009	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.957	197.446	199.403	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						4.365				
	Deduction										
	Brick work	1.00		0.785	1.160	1.160	0.940	0.993			
	PCC	1.00		0.785	1.560	1.560	0.250	0.478			
	Soling	1.00		0.785	1.760	1.760	0.200	0.486			
							1.957				
							2.408		339.923	342.331	
	RG 8.20.2										
	CH9.60	585.715	584.640	584.190			1.525				
	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	1.150	3.611	175.483	179.094	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.025	0.079	64.747	64.825	
	(c) For Lift 3.0m to 4.5m	1			0.785	4.000	0.000	0.000	2.323	2.323	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.200	0.628	103.530	104.158	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	71.140	71.140	
	(c) For Lift 3.0m to 4.5m	1			0.785	4.000	0.000	0.000	2.854	2.854	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.150	0.471	36.009	36.480	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	61.976	61.976	
	(c) For Lift 3.0m to 4.5m	1			0.785	4.000	0.000	0.000	7.476	7.476	
	ITEM No. 5 :- Excavation for foundation / pipe trenches in laterite rock masses etc complete										
	(b) For Lift 1.5m to 3.0m	1			0.785	4.000	0.000	0.000	14.509	14.509	
	(c) For Lift 3.0m to 4.5m	1			0.785	4.000	0.000	0.000	1.688	1.688	



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

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Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

**9th RA BILL MEASUREMENTS (Excavation of Manhole)
Roshan Gate Champa Chowk**

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upt Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.6m X 0.45m Manhole (upto a depth of 1.5m)- 0.45+0.25+0.25+0.6=1.55m Breadth 0.60+0.25+0.25+0.5=1.70m RG 8.3.1 CH5.90										
		581.085	579.950	579.500			1.585				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030		179.094	182.12
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.085	0.224		64.825	65.04
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527		104.158	104.68
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395		36.480	36.87
	Item No. : 11 Transportation of earth Transportation charges							1.910		201.502	203.41
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.176			
	Deduction										
	Brick work	1			1.100	0.950	1.135	1.186			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.910			
					Net Qty = A - B			2.267		345.020	347.287
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.135	0.553		0.000	0.553
	Short Wall	2			0.450	0.230	1.135	0.235		0.553	0.788
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.185	1.422		0.000	1.422
	Short Wall	2			0.450		1.185	1.067		1.422	2.489
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.185	2.512		0.000	2.512
	(b) Short Wall	2			0.910		1.185	2.157		2.512	4.669
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.185	1.422		0.000	1.422
	(b) Short Wall Internal	2			0.450		1.185	1.067		1.422	2.489
	(c) Long Wall External	2			1.060		1.185	2.512		2.489	5.001
	(d) Short Wall External	2			0.910		1.185	2.157		5.001	7.157
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		0.000	0.374



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

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

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		CL	IL	EX.L							
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.A.C) Manhole cover with frame of Size 610mm X 610mm	1					1.000		0.000	1.000	
	RG 8.4.1 CHS 40	581.435	580.475	580.025			1.410				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils. Soft murrum etc complete. (a) For Lift 0 to 1.5m	1			1.550	1.700	1.060	2.793	182.124	184.917	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527	104.685	105.212	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395	36.875	37.270	
	Item No. : 11 Transportation of earth Transportation charges						1.727	203.412	205.139		
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=						3.715				
	Deduction										
	Brick work	1			1.100	0.950	0.960	1.003			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
							1.727				
					Net Qty = A - B			1.988	347.287	349.275	
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	0.960	0.468	0.788	1.256	
	Short Wall	2			0.450	0.230	0.960	0.199	1.256	1.455	
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.010	1.212	2.489	3.701	
	Short Wall	2			0.450		1.010	0.909	3.701	4.610	
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.010	2.141	4.669	6.810	
	(b) Short Wall	2			0.910		1.010	1.838	6.810	8.648	
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.010	1.212	7.157	8.369	
	(b) Short Wall Internal	2			0.450		1.010	0.909	8.369	9.278	
	(c) Long Wall External	2			1.060		1.010	2.141	9.278	11.420	
	(d) Short Wall External	2			0.910		1.010	1.838	11.420	13.258	
	Extra Item :5(a) Providing & Casting RCC Grade M20 for manhole etc complete.										
	RCC	1			1.300	1.150	0.250	0.374	0.374	0.748	
	Extra Item 9.8 a) Supplying of Heavy Duty RCC (S.F.A.C) Manhole cover with frame of Size 610mm X 610mm	1					1.000	1.000	1.000	2.000	
	RG 8.4.1 CHS 40	580.025	581.050	580.600			1.520				



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

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Roshan Gate, Champa Chowk 0.6mX 0.45m MH Excavation

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	1.150	3.030		184.917	187.947
	(b) For Lift 1.5m to 3.0m	1			1.550	1.700	0.020	0.053		65.049	65.102
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.200	0.527		105.212	105.739
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			1.550	1.700	0.150	0.395		37.270	37.666
	Item No. : 11 Transportation of earth Transportation charges							1.842		205.139	206.981
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							4.005			
	Deduction										
	Brick work	1			1.100	0.950	1.070	1.118			
	PCC	1			1.300	1.150	0.250	0.374			
	Soling	1			1.400	1.250	0.200	0.350			
								1.842			
					Net Qty = A - B			2.163		349.275	351.438
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.										
	Long Wall	2			1.060	0.230	1.070	0.522		1.455	1.977
	Short Wall	2			0.450	0.230	1.070	0.221		1.977	2.198
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.										
	Long Wall	2			0.600		1.120	1.344		4.610	5.954
	Short Wall	2			0.450		1.120	1.008		5.954	6.962
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.										
	(a) Long Wall	2			1.060		1.120	2.374		8.648	11.023
	(b) Short Wall	2			0.910		1.120	2.038		11.023	13.061
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.										
	(a) Long Wall Internal	2			0.600		1.120	1.344		13.258	14.602
	(b) Short Wall Internal	2			0.450		1.120	1.008		14.602	15.610
	(c) Long Wall External	2			1.060		1.120	2.374		15.610	17.984
	(d) Short Wall External	2			0.910		1.120	2.038		17.984	20.023
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.										
	PCC	1			1.300	1.150	0.250	0.374		0.748	1.121
	Extra item 9.8 a) Supplying of Heavy Duty RCC (S.F.R.C.) Manhole cover with frame of Size 0.6mx0.45m	1						1.000		2.000	3.000
	RG 8.7.2										
	CH12.50	582.965	581.775	581.325			1.640				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										

