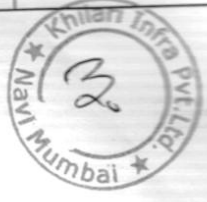


9th R A BILL MEASUREMENTS OF CHEMBERS HARSUL

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 m dia chamber up to 1.5 mt depth -0.9+0.5+0.3+0.3=2m										
	Area for chamber up to 1.5m=2 X 2=4m										
	M2										
	CH13.70	581.445	580.160	579.910			1.535				
	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	1.335	4.192	0.000	4.192	
	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	0.100	0.314	0.000	0.314	
	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							1.835	0.000	1.835	
	Item No. 30 :- Refilling the excavated trenches ...							4.820			
	Total Excavation(A)=										
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.285	1.36			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.83			
								2.98	0.00	2.98	
	M3										
	CH21.20	581.725	580.405	580.155			1.570				
	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	1.370	4.302	4.192	8.494	
	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	0.100	0.314	0.314	0.628	
	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							1.872	1.835	3.707	



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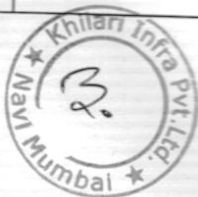
Manhole MB Makai Gate

Date	Particulars of work	DETAILS					Content of arrears	Last measurement Page	Total Upto Date Quantity	
		GL	No IL	EX.L	L	B				D
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=						4.930			
	Deduction									
	Brick work	1.00		0.785	1.16	1.16	1.320	1.39		
	soling							0.00		
	PCC	1.00		0.785	1.56	1.56	0.25	0.48		
	Murram bedding							0.00		
	Total (B)						1.87			
		Net Qty = A - B						3.06	2.98	6.04
	M4									
	CH34.00	582.095	580.750	580.500			1.595			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.395	4.380	8.494	12.874
	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	0.628	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	0.628	0.942
	Item No. : 11 Transportation of earth Transportation charges							1.898	3.707	5.605
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation(A)=						5.008			
	Deduction									
	Brick work	1.00		0.785	1.16	1.16	1.345	1.42		
	soling							0.00		
	PCC	1.00		0.785	1.56	1.56	0.25	0.48		
	Murram bedding							0.00		
	Total (B)						1.90			
		Net Qty = A - B						3.11	6.04	9.15
	M5									
	CH47.50	582.115	580.945	580.695			1.420			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.									
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.220	3.831	12.874	16.705
	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	0.942	1.256
	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	0.942	1.256
	Item No. : 11 Transportation of earth Transportation charges							1.713	5.605	7.319



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Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						4.459				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.170	1.24			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.71			
								2.75			
	M6										
	CH55.60	582.005	581.030	580.780			1.225		9.15	11.90	
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	1.025	3.219	16.705	19.923	
	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	0.100	0.314	1.256	1.570	
	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	1.256	1.570	
	Item No. : 11 Transportation of earth Transportation charges							1.507	7.319	8.826	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.847			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.975	1.03			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.51			
								2.34			
	M7										
	CH66.60	581.935	581.155	580.905			1.030		11.90	14.24	
	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	0.830	2.606	19.923	22.530	
	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	0.100	0.314	1.570	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	1.570	1.884	
	Item No. : 11 Transportation of earth Transportation charges							1.302	8.826	10.128	



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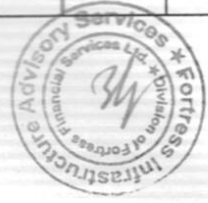
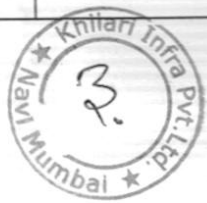
Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport),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

Book No. 137
Page No. 3

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Manhole MB Makai Gate

Date	Particulars of work	DETAILS					Content of arrears	Last measurement Page	Quantity	Total Upto Date Quantity	
		No			L	B					D
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.234				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.780	0.82			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.30			
		Net Qty = A - B						1.93	14.24	16.17	
	M8										
	CH74.10	581.950	581.190	580.940			1.010				
	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	0.810	2.543	22.530	25.073	
	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	0.100	0.314	1.884	2.198	
	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							1.280	10.128	11.408	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.171				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.760	0.80			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.28			
		Net Qty = A - B						1.89	16.17	18.06	
	M9										
	CH80.00	582.025	581.310	581.060			0.965				
	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	0.765	2.402	25.073	27.475	
	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	0.100	0.314	2.198	2.512	
	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							1.233	11.408	12.641	



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Manhole MB Makai Gate

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.030				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.715	0.76			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.23			
		Net Qty = A - B						1.80	18.06	19.86	
	M10										
	CH85.30	582.080	581.380	581.130			0.950				
	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	0.750	2.355	27.475	29.830	
	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	2.512	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	2.512	2.826	
	Item No. : 11 Transportation of earth Transportation charges							1.217	12.641	13.858	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.983			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.700	0.74			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.22			
		Net Qty = A - B						1.77	19.86	21.62	
	M11										
	CH92.20	582.150	581.470	581.220			0.930				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.730	2.292	29.830	32.122	
	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	2.826	3.140	
	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							1.196	13.858	15.054	



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

Book No. :- 100/10/2014

Page No. :- 141

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

9th R A BILL MEASUREMENTS CHAMBER DETAILS
Manhole Details Makal Gate

SR NO	CHAMBER NUMBER	DETAILS			DEPTH	Rebate up to Depth of 1.5 mtr For per 30 cm		Total Rebate Qty for 30 cm
		GL	IL	No				
A	Extra Item.1 Providing and constructing on sewer.BBM manhole 0.9 m dia at bottom and 0.5 m dia at top and up to a depth of 1.5 M etc., complete							
1	MAKAI GATE (Reduce Rate)							
1	M2	581.445	580.160	580.160	1.285	1.500	-0.21	
2	M3	581.725	580.405	580.405	1.320	1.500	-0.18	
3	M4	582.095	580.750	580.750	1.345	1.500	-0.15	
4	M5	582.115	580.945	580.945	1.170	1.500	-0.33	
5	M6	582.005	581.030	581.030	0.975	1.500	-0.52	
6	M7	581.935	581.155	581.155	0.780	1.500	-0.72	-17.817
7	M8	581.950	581.190	581.190	0.760	1.500	-0.74	
8	M9	582.025	581.310	581.310	0.715	1.500	-0.78	
9	M11	582.150	581.470	581.470	0.680	1.500	-0.82	
10	M12	582.220	581.595	581.595	0.625	1.500	-0.88	
	TOTAL						-5.34	-17.817
1	MAKAI GATE (Full Rate)							
1	M10	582.080	581.380	581.380	0.700	1.500	-0.80	
2	M7/1	582.035	581.275	581.275	0.760	1.500	-0.74	-2.67
	TOTAL						-0.80	-2.67



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

Book No. :-
Page No. :-142

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

Authority

Date of Measurement
1



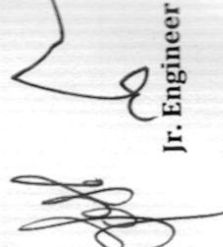
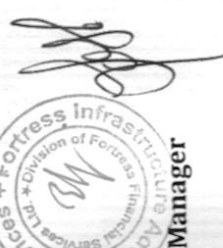

Qty Makai Gate

QUANTITY ABSTRACT
MAKAI GATE

Sr. No.	Description	MB/PG	ITEM 1		ITEM 2		ITEM 4		ITEM 7		ITEM 11		ITEM 12		ITEM 13		ITEM 30		ITEM 35		Extra Item 2		Extra Item 2.a	
			0-1.5	63.074	0-1.5	5.327	0-1.5	5.327	0-1.5	5.327	7.210	7.210	10.444	200mm	109.500	200mm	109.500	63.284	26.849	0.100	0-1.5 m	RR (3450)	Rebate	
1	For Pipe		37.413	3.454	3.454	8.781	8.781	7.210	7.210	17.472	109.500	109.500	2.000	10.000										
2	For Manhole		100.487	8.781	8.781	8.781	8.781	7.210	7.210	27.916	109.500	109.500	2.000	10.000										
	Total																							

Page 1 of 1

CLIENT


Ex-Engineer

Dy. Engineer

Jr. Engineer

Project Manager

Project Engineer



CONTRACTOR

Authorized Signatory

of Arrears	Last Measurement		Total up to Date
	Page No.	Quantity	
7	8	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 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)

Page 1

Pipe Lying MB -Paithan Gate (Near CP Office)

9th R A BILL MEASURMENTS DWC PIPE PAITHAN GATE (NEAR CP OFFICE)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	SW PIPE - 200 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.200+0.02+0.02+0.5=0.74m										
	For Lift 1.5 to 3.00m- 0.200+0.02+0.02+0.5+0.4 =1.14m										
	For Lift 3.0 to 4.5m- 0.200+0.5+0.02+0.02+0.4+0.4= 1.54m										
	OLD MH TO CP1										
	CH0.00	574.895	574.185	574.085			0.810	0.755			
	CH31.50	574.905	574.305	574.205			0.700				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.500	0.740	0.505	11.398	0.000	11.398	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.500	0.740	0.150	3.386	0.000	3.386	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.500	0.740	0.100	2.257	0.000	2.257	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			30.800	0.740	0.100	2.279	0.000	2.279	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.449	0.000	3.449	
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			31.300			31.300	0.000	31.300	
	Item No. 30 :- Refilling the excavated trenches --										
	Total Excavation=-							17.040			
	Deduction of 250mm dia pipe pipe area	1.00		0.785	30.800	0.220	0.220	1.17			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.28			
								3.45			
								13.59	0.00	13.59	
	Net Qty = A - B										
	CP1 TO CP2										
	CH31.50	574.905	574.305	574.205			0.700	0.925			
	CH63.40	575.475	574.425	574.325			1.150				



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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

Book No. :- 144
Page No. :-

Page 2

Pipe Lying MB -Paithan Gate (Near CP Office)

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			29.900	0.740	0.925	20.467		11.398	31.864
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			30.500	0.740	0.100	2.257		2.279	4.536
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							3.416		3.449	6.865
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			31.000			31.000		31.300	62.300
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							20.467			
	Deduction										
	pipe area	1.00		0.785	30.500	0.220	0.220	1.16			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.26			
								3.42			
								Net Qty = A - B			
	CP2 TO CP3							17.05		13.59	30.64
	CH63.40	575.475	574.425	574.325			1.150				
	CH72.40	575.415	574.515	574.415			1.000	1.075			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.000	0.740	1.075	5.569		31.864	37.433
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.600	0.740	0.100	0.562		4.536	5.099
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.851		6.865	7.716
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.100			8.100		62.300	70.400
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.569			
	Deduction										
	pipe area	1.00		0.785	7.600	0.220	0.220	0.29			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.56			
								0.85			
								Net Qty = A - B			
	CP3 TO CP4							4.72		30.64	35.36
	CH72.40	575.415	574.515	574.415			1.000				
	CH81.80	575.355	574.605	574.505			0.850	0.925			



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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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Pipe Lying MB -Paithan Gate (Near CP Office)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.550	0.740	0.925	5.168		37.433	42.601
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.150	0.740	0.100	0.603		5.099	5.702
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.913		7.716	8.629
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			8.650			8.650		70.400	79.050
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.168			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	8.150	0.220	0.220	0.31			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.60			
								0.91			
	Net Qty = A - B							4.26		35.36	39.61
	CP4 TO CP5										
	CH81.80	575.355	574.605	574.505				0.850			
	CH85.80	575.425	574.675	574.575				0.850			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.300	0.740	0.850	1.447		42.601	44.048
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			2.900	0.740	0.100	0.215		5.702	5.916
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.325		8.629	8.954
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			3.400			3.400		79.050	82.450
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.447			
	Deduction										
	pipe area	1.00		0.785	2.900	0.220	0.220	0.11			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.21			
								0.32			
	Net Qty = A - B							1.12		39.61	40.74
	CPS TO C6										
	CH85.80	575.425	574.675	574.575				0.850			



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Pipe Lying MB -Paithan Gate (Near CP Office)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	CH90.30	575.505	574.755	574.655			0.850	0.850			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.800	0.740	0.600	1.243		44.048	45.291
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.800	0.740	0.250	0.518		3.386	3.904
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.400	0.740	0.100	0.252		5.916	6.168
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.381		8.954	9.335
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			3.900			3.900		82.450	86.350
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							1.761			
	Deduction										
	pipe area	1.00		0.785	3.400	0.220	0.220	0.13			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.25			
								0.38			
								1.38		40.74	42.12
	CP2 TO CP2/1										
	CH0.00	575.475	574.425	574.325			1.150				
	CH8.00	575.575	574.545	574.445			1.130	1.140			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	0.690	0.890	4.483		45.291	49.774
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			7.300	0.690	0.250	1.259		3.904	5.163
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			7.300	0.690	0.100	0.504		6.168	6.672
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.781		9.335	10.116
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia	1			7.550			7.550		0.000	7.550
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							5.742			
	Deduction										



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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 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.

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Pipe Lying MB -Paithan Gate (Near CP Office)

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity
		GL	No IL	EX.L	L	B		D	Page	
	pipe area	1.00		0.785	7.300	0.220	0.220	0.28		
	soling							0.00		
	PCC							0.00		
	Murum bedding							0.50		
								0.78		
								4.96	42.12	47.08
	SAWARKAR CHOWK (NEAR MASJID)DWC-200 mm Dia									
	Only Connection between two Old Manholes									
	SAC1 TO SAC2									
	CH0.00	568.530	567.530	567.430			1.100	1.230		
	CH12.00	568.485	567.225	567.125			1.360			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc									
	(a) For Lift 0 to 1.5m	1			10.300	0.700	1.130	8.147	49.774	57.921
	(b) For Lift 1.5m to 3.0m	1			10.300	0.700	0.000	0.000	0.000	0.000
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.									
	(a) For Lift 0 to 1.5m	1			10.300	0.700	0.050	0.361	5.163	5.523
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.									
	(a) For Lift 0 to 1.5m	1			10.300	0.700	0.050	0.361	2.257	2.618
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)									
		1			10.900	0.700	0.100	0.763	6.672	7.435
	Item No. : 11 Transportation of earth Transportation charges									
								1.105	10.116	11.221
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia									
		1			11.400			11.400	0.000	11.400
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 150mm Dia									
									0.000	7.550
	Extra Item :-Lowering & Laying of Polyethylene SW pipe of 200mm Dia									
									86.350	86.350
	Item No. 30 :- Refilling the excavated trenches ...									
	Total Excavation=							8.868		
	Deduction of 200mm dia pipe									
	pipe area	1.000		0.785	10.900	0.200	0.200	0.342		
	soling							0.000		
	PCC							0.000		
	Murum bedding							0.763		
								1.105		
								7.763	47.078	54.841
	Item No :35 Shifting of Existing Utilities Length considerd up to 400mm including all and as directed by Engineer in-Charge									
					0.096			0.10		0.10



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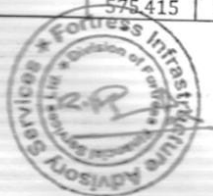
Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

Page 1

Manhole MB Paithan Gate (Near CP Office)

9th R A BILL MEASUREMENTS DWC PIPE PAITHAN GATE (NEAR CP OFFICE)

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	0.9m x 0.6m dia chamber up to 1.5 mt depth - 0.9+0.5+0.3+0.3=2m										
	Bredth for chamber up to 1.5m=0.6+0.5+0.3+0.3=1.7m CP1										
	CH31.50	574.905	574.305	574.055			0.850				
	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	0.550	1.870	0.000	1.870	
	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	0.300	1.020	0.000	1.020	
	Item No. : 11 Transportation of earth Transportation charges							1.44	0.000	1.444	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.890			
	Deduction										
	Brick work	1.00		1	1.40	1.10	0.600	0.92			
	soling							0.00			
	PCC	1.00		1	1.60	1.30	0.25	0.52			
	Murrum bedding							0.00			
	Total (B)							1.44			
					Net Qty = A - B			1.45	0.00	1.45	
	CP2										
	CH63.40	575.475	574.425	574.175			1.300				
	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	1.300	4.420	1.870	6.290	
	Item No. : 11 Transportation of earth Transportation charges							2.14	1.444	3.584	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.420			
	Deduction										
	Brick work	1.00		1	1.40	1.10	1.050	1.62			
	soling							0.00			
	PCC	1.00		1	1.60	1.30	0.25	0.52			
	Murrum bedding							0.00			
	Total (B)							2.14			
					Net Qty = A - B			2.28	1.45	3.73	
	CP3										
	CH72.40	575.415	574.515	574.265			1.150				



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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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Manhole MB Paithan Gate (Near CP Office)

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			2.000	1.700	1.150	3.910		6.290	10.200	
	Item No. : 11 Transportation of earth Transportation charges							1.91		3.581	5.487	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation(A)=							3.910				
	Deduction											
	Brick work	1.00		1	1.40	1.10	0.900	1.39				
	soiling							0.00				
	PCC	1.00		1	1.60	1.30	0.25	0.52				
	Murrum bedding							0.00				
	Total (B)							1.91				
		Net Qty = A - B							2.00		3.73	5.73
	0.6m x 0.45m dia chamber up to 1.5 mt depth - 0.6+0.5+0.3+0.3=1.7m											
	Bredth for chamber up to 1.5m=0.45+0.5+0.3+0.3=1.55m											
	CP4											
	CH81.80	575.355	574.605	574.355			1.000					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			1.700	1.550	1.000	2.635		10.200	12.835	
	Item No. : 11 Transportation of earth Transportation charges							1.16		5.487	6.645	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation(A)=							2.635				
	Deduction											
	Brick work	1.00		1	1.10	0.95	0.750	0.78				
	soiling							0.00				
	PCC	1.00		1	1.30	1.15	0.25	0.37				
	Murrum bedding							0.00				
	Total (B)							1.16				
		Net Qty = A - B							1.48		5.73	7.21
	CP5											
	CH85.80	575.425	574.675	574.425			1.000					
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.											
	(a) For Lift 0 to 1.5m	1			1.700	1.550	1.000	2.635		12.835	15.470	
	Item No. : 11 Transportation of earth Transportation charges							1.16		6.645	7.802	
	Item No. 30 :- Refilling the excavated trenches ...											
	Total Excavation(A)=							2.635				
	Deduction											



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

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

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

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

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Manhole MB Paithan Gate (Near CP Office)

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		GL	No IL	EX.L	L	B		D	Page		Quantity
	Brick work	1.00		1	1.10	0.95	0.750	0.78			
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.16			
	CP6	Net Qty = A - B							1.48	7.21	8.69
	CH90.30	575.505	574.755	574.505			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.750	1.976	15.470	17.446	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			1.700	1.550	0.250	0.659	1.020	1.679	
	Item No. : 11 Transportation of earth Transportation charges							1.16	7.802	8.960	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.635			
	Deduction										
	Brick work	1.00		1	1.10	0.95	0.750	0.78			
	soling							0.00			
	PCC	1.00		1	1.30	1.15	0.25	0.37			
	Murum bedding							0.00			
	Total (B)							1.16			
	Net Qty = A - B							1.48	8.69	10.17	



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

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

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

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

BBM Trench Paithan Gate (Near CP Office)

9th R A BILL MEASUREMENTS OF BBM TRENCH PAITHAN GATE (NEAR CP OFFICE)

Date	Particulars of work	DETAILS				Content of arrears	Last measurement		Total Upto Date Quantity
		No	L	B	D		Page	Quantity	
A	Quantity for chamber								
	Extra Item No., 4								
1	0.6m X 0.45m and 0.23m thickness RECT MH-03Nos.								
	Extra Item :4(a) - Construction of Brick work of 230mm thk. for manhole etc complete.								
	(a) Long Wall	6	1.060	0.230	0.850	1.243		0.000	1.243
	(b) Short Wall	6	0.450	0.230	0.850	0.528		0.000	0.528
						1.771		0.000	1.771
	Extra Item :4(b) - 12mm thk. Internal Plaster for manhole etc complete.								
	(a) Long Wall	6	0.600		0.850	3.060		0.000	3.060
	(b) Short Wall	6	0.450		0.850	2.295		0.000	2.295
						5.355		0.000	5.355
	Extra Item :4(c) - 20mm thk. External Plaster for manhole etc complete.								
	(a) Long Wall	6	1.060		0.850	5.406		0.000	5.406
	(b) Short Wall	6	0.910		0.850	4.641		0.000	4.641
						10.047		0.000	10.047
	Extra Item :4(d) - Providing fine Cement finish 1.5mm thk. for manhole etc complete.								
	(a) Long Wall Internal	6	0.600	0.000	0.850	3.060		0.000	3.060
	(b) Short Wall Internal	6	0.450	0.000	0.850	2.295		0.000	2.295
	(c) Long Wall External	6	1.060	0.000	0.850	5.406		0.000	5.406
	(d) Short Wall External	6	0.910	0.000	0.850	4.641		0.000	4.641
						15.402		0.000	15.402
	Extra Item :5(b) - Providing & Casting M15 Grade PCC for manhole etc complete.								
	PCC	3	1.260	1.110	0.150	0.629		0.000	0.629



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