

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

1

Buddi Line Side Buddi Line Side

9th R A BILL CHEMBER DETAILS BUDDI LINE SIDE

SR NO	CHEMBER NUMBER	DETAILS			Rebate up to		Total Rebate Qty for 30 cm
		No			Depth of 1.5 mtr		
		GL	IL	DEPTH	For per 30 cm		
A	BUDDI LINE SIDE-250mm dwc						
	Extra Item No. :2 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	BL0	568.003	566.413	1.590	1.5	0.090	-14.050
2	BL1	568.023	566.603	1.420	1.5	-0.080	
3	BL2	568.073	566.803	1.270	1.5	-0.230	
4	BL3	568.418	566.983	1.435	1.5	-0.065	
5	BL4	569.503	568.213	1.290	1.5	-0.210	
6	BL5	569.563	568.303	1.260	1.5	-0.240	
7	BL6	569.633	568.433	1.200	1.5	-0.300	
8	BL7	569.853	568.693	1.160	1.5	-0.340	
9	BL8	569.933	568.863	1.070	1.5	-0.430	
10	BL9	570.093	569.063	1.030	1.5	-0.470	
11	BL10	570.133	569.263	0.870	1.5	-0.630	
12	BL11	570.263	569.333	0.930	1.5	-0.570	
13	BL12	570.223	569.463	0.760	1.5	-0.740	
	Total					-4.215	-14.050
B	BUDDI LINE SIDE-250mm RCC						
	Extra Item No. :2 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	BL31	568.603	567.643	0.960	1.5	-0.540	-9.167
2	BL32	568.753	567.793	0.960	1.5	-0.540	
3	BL33	568.833	567.913	0.920	1.5	-0.580	
4	BL34	569.013	568.103	0.910	1.5	-0.590	
5	BL35	569.153	568.153	1.000	1.5	-0.500	
	Total					-2.750	-9.167



... Erecting, Testing and Commissioning of Sewage Treatment ...
 ... technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth ...
 ... CIDCO (Airport), Construction, Erection, Testing and Commission ...
 ... Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward ...
 ... CIDCO (Airport), Providing, lowering, laying jointing and testing rising main ...
 ... from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to ...
 ... for Aeromghad City.

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

Buddi line Side Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Of Sewer "BUDDI LINE SIDE"

Sl. No.	Description	MB/PG	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 13 250mm	ITEM 30	ITEM 35	EIRL 2		EIRL 9.A
			0-1.5	1.5-3.0								0-1.5	Full Rate	
1	For Pipe		35.174	-	9.989	3.996	6.004	9.252	52.400	40.055	0.050			18.000
2	For Manhole		54.856	2.402	14.130	5.652		29.760		47.280		18.000	(23.217)	
	Total		90.029	2.402	24.119	9.648	6.004	39.012	52.400	87.335	0.050	18.000	(23.217)	18.000



CONTRACTOR
 Khilari Infra Pvt.Ltd.
 Navi Mumbai
 Authorized Signatory



Project Engineer



Project Manager



Jr. Engineer



Ex. Engineer

CLIENT

Ex. Engineer

PMC


... p to ... e ...

Name of work:- Development of Underground Sewerage Collection System for Zone 1 to 4 and Zone Salim Ali. Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi). Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport). Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CIDCO (Airport). Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.



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


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

9th R A BILL MEASUREMENTS																	
Branch Of Sewer "BUDDI LINE SIDE"																	
SR NO	Description	MB/PG	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 12		ITEM 30	ITEM 35	EIRL 2	EIRL 2.a		EIRL 9.3	EIRL 9.4
			0-1.5	1.5-3.0					250mm	250mm				Full Rate	Rebate		
1	For Pipe		35.174		0.000	3.996	6.004	9.252	52.400	52.400	40.095	0.090				18.000	18.000
2	For Manhole		64.056	2.402	14.130	0.652		29.760			47.260		18.000	(23.217)			
Total			99.079	2.402	24.119	9.648	6.004	39.012	62.400	62.400	87.335	0.090	18.000	-23.217	18.000	18.000	18.000

Date of Measurement

Buddi Line Side Quantity Node Abstract

CLIENT
 By:  Ex. Engineer
 By:  Jr. Engineer

PMC
 Project Manager

CONTRACTOR
 Authorized Signatory



Name of work:- Development of Underground Sewerage Collection system for Zone I to VI
 and Zone VIII, 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
 315 dia pvc line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to
 STP at Aurangabad City.

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

Shatabdi Nagar-02 Measurment MB

9th RA BILL MEASURMENTS DWC PIPE SHATABDI NAGAR-02

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	DWC - 315 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.305-0.5-0.815m										
	For Lift 1.5 to 3.00m- 0.305-0.5-0.4-1.215m										
	For Lift 3.0 to 4.5m- 0.305-0.5-0.4-0.4-1.615m										
	SH0 TO SH0.1										
	CR13.00	583.340	582.600	582.500			0.840	0.82			
	CR13.00	583.350	582.660	582.560			0.790				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.815	0.52	4.617	0.000	4.617	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.815	0.200	1.793	0.000	1.793	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.000	0.815	0.100	0.897	0.000	0.897	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			11.600	0.815	0.100	0.945	0.000	0.945	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.849	0.000	1.849	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia										
	Item No. 30 :- Refilling the excavated trenches ...	1			12.100			12.100	0.000	12.100	
	Total Excavation=							7.306			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.600	0.315	0.315	0.904			
	soiling							0.000			
	PCC							0.000			
	Murrum bedding							0.945			
								1.849			
								5.458	0.000	5.458	
	SH0.1 TO SH1										
	CR13.00	583.350	582.660	582.560			0.790	0.80			
	CR13.20	583.372	582.660	582.560			0.812				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.200	0.815	0.40	2.680	4.617	7.297	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.200	0.815	0.300	2.005	1.793	3.798	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										



and also Salient :- 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.

3 of 6

Shatabdi Nagar-02 Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	pipe area	1.00		0.785	16.400	0.380	0.380	1.859			
	soiling							0.000			
	PCC							0.000			
	Murram bedding							1.574			
								3.433			
		Net Qty = A - B							11.303	9.408	20.711
	SH2 TO SH3										
	CH41.60	583.690	582.730	582.630			1.060	1.10			
	CH55.00	583.880	582.840	582.740			1.140				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	0.960	0.70	7.661	15.736	23.396	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	0.960	0.300	3.283	8.521	11.804	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.400	0.960	0.100	1.094	3.139	4.234	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.400	0.960	0.100	1.094	3.237	4.331	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.387	6.685	9.072	
	Extra Item 9.4:- Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			12.500			12.500	17.500	30.000	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							12.038			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	11.400	0.380	0.380	1.292			
	soiling							0.000			
	PCC							0.000			
	Murram bedding							1.094			
								2.387			
		Net Qty = A - B							9.652	20.711	30.363
	RCC 250mm Dia										
	Width of Trench - For Bottom Lift 0.00-1.50m- 0.25+0.06+0.06+0.5=0.87m										
	From Bottom Lift 1.50m-3.00m- 0.25+0.06+0.06+0.5+0.4=1.27m										
	From Bottom Lift 3.00m-4.50m- 0.25+0.06+0.06+0.5+0.4+0.4 = 1.57m										
	SH1 TO SH4										
	CH22.00	583.880	582.840	582.640			1.24	1.685			
	CH23.00	584.840	582.910	582.710			2.13				
	Item No. 1 :- Excavation for foundation/pipe trenches in all earth soils, soft murram etc complete.										



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

Page No. :- 101

M. H. S. Construction Pvt. Ltd. & GECPL (Joint Venture)

4 of 6

Shatabdi Nagar-02 Measurement MB

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	(a) For Lift 0 to 1.5m	1			6.900	1.270	1.100	9.639		23.396	33.036
	(b) For Lift 1.5m to 3.0m	1			6.900	0.870	0.185	1.111		0.000	1.111
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	1.270	0.300	2.629		11.804	14.433
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	1.270	0.100	0.876		4.234	5.110
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.900	0.870	0.200	1.201		4.331	5.532
	Item No. : 11 Transportation of earth Transportation charges							1.721		9.072	10.793
	Extra item 9.4 Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			8.000			8.000		0.000	8.000
	Item No 30 :- Refilling the excavated trenches --										
	Total Excavation = A							14.255			
	Deduction										
	pipe area	1		0.785	6.900	0.310	0.310	0.521			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.201			
	Total = B							1.721			
	Net Qty = A - B							12.534		30.363	42.897
	SH4 TO SH5										
	CH63.90	584.840	582.910	582.710			2.13	1.675			
	CH72.80	583.930	582.910	582.710			1.22				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	1.270	1.100	9.639		33.036	42.675
	(b) For Lift 1.5m to 3.0m	1			6.900	0.870	0.175	1.051		1.111	2.161
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	1.270	0.300	2.629		14.433	17.062
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			6.900	1.270	0.100	0.876		5.110	5.986
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			6.900	0.870	0.200	1.201		5.532	6.733
	Item No. : 11 Transportation of earth Transportation charges							1.721		10.793	12.514
	Extra item 9.4 Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			8.000			8.000		8.000	16.000
	Item No 30 :- Refilling the excavated trenches --										
	Total Excavation = A							14.195			
	Deduction										
	pipe area	1		0.785	6.900	0.310	0.310	0.521			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.201			
	Total = B							1.721			



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

Page No. :-

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

5 of 6

Shatabdi Nagar-02 Measurement MB

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
		Net Qty = A - B					12.474		42.897	55.371	
	SH5 TO SH6										
	CH72.80	583.930	582.910	582.710			1.22	1.090			
	CH83.70	583.920	583.160	582.960			0.96				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.900	0.870	0.980	7.588	42.675	50.263	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			8.900	0.870	0.060	0.465	17.062	17.527	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			8.900	0.870	0.050	0.387	5.986	6.373	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			8.900	0.870	0.200	1.549	6.733	8.281	
	Item No. : 11 Transportation of earth Transportation charges							2.220	12.514	14.734	
	Extra item 9.4 Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			10.000			10.000	16.000	26.000	
	Item No 30 :- Refilling the excavated trenches --										
	Total Excavation = A							8.440			
	Deduction										
	pipe area	1		0.785	8.900	0.310	0.310	0.671			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							1.549			
	Total = B							2.220			
		Net Qty = A - B							6.220	55.371	61.590
	SH6 TO SH7										
	CH83.70	583.920	583.160	582.960			0.96	1.035			
	CH98.60	584.080	583.170	582.970			1.11				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			12.900	0.870	1.035	11.616	50.263	61.879	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			12.900	0.870	0.200	2.245	8.281	10.526	
	Item No. : 11 Transportation of earth Transportation charges							3.218	14.734	17.952	
	Extra Item 9.4 Lowering & Laying RCC NP3 class pipe of 250mm Dia	1			14.000			14.000	26.000	40.000	
	Item No 30 :- Refilling the excavated trenches --										
	Total Excavation = A							11.616			
	Deduction										
	pipe area	1		0.785	12.900	0.310	0.310	0.973			
	soling							0.000			
	PCC							0.000			
	Murrum bedding							2.245			



Shatabdi Nagar-02 Chamber Measurement

9th R A BILL MEASUREMENTS OF CHAMBERS SHATABDI NAGAR-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Excavation of Chamber - For 0.9 dia chamber up to 1.5 mt depth - 0.9-0.5-0.3-0.3-2m										
	Area for chamber up to 1.5m=2 X 2-4m										
	Still										
	CHE.00	583.340	582.600	582.350			0.990				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soil. Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.690	2.167	0.000	2.167	
	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	0.000	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	0.000	0.314	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.259	0.000	1.259	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.109			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.740	0.78			
	Soiling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)							1.26			
								Net Qty = A - B	1.85	0.00	1.85
	Still										
	CHE.00	583.350	582.660	582.410			0.940				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.540	1.696	2.167	3.862	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	0.628	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	0.314	0.628	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.206	1.259	2.466	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							2.952			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.690	0.73			



Name of work:- Development of Underground Sewerage System for Shatabdi Nagar-02 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.

M/S. Khilari Infrastructure Pvt Ltd & GECPI (Joint Venture)

2 of 5

Shatabdi Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	soling						0.00				
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.21			
		Net Qty = A - B							1.75	1.85	3.59
	SH1										
	CH23.20	583.372	582.660	582.410			0.962				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.562	1.765	3.862	5.627	
	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	0.300	0.942	1.570	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	0.628	0.942	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.230	2.466	3.695	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.021			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.712	0.75			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.23			
		Net Qty = A - B							1.79	3.59	5.39
	SH2										
	CH41.60	583.690	582.730	582.480			1.210				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.810	2.543	5.627	8.170	
	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	0.300	0.942	2.512	3.454	
	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 including loading & unloading							1.492	3.695	5.187	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							3.799			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.960	1.01			
	soling							0.00			



3 of 5

Shatabdi Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.49			
		Net Qty = A - B							2.31	5.39	7.69
	SB3										
	CR55.00	583.880	582.840	582.590			1.290				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.890	2.795	8.170	10.965	
	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	0.300	0.942	3.454	4.396	
	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 including loading & unloading							1.576	5.187	6.763	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.051			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.040	1.10			
	soiling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murram bedding							0.00			
	Total (B)							1.58			
		Net Qty = A - B							2.47	7.69	10.17
	SB4										
	CR63.90	584.840	582.910	582.660			2.180				
	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	1.100	3.454	10.965	14.419	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.680	2.135	0.000	2.135	
	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	0.300	0.942	4.396	5.338	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	1.570	1.884	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							2.516	6.763	9.279	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							6.845			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.930	2.04			
	soiling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			



Name of work:- Development of Underground Sewerage Collection System for Zone 1 to V1 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.

4 of 5

Shatabdi Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Murum bedding						0.00				
	Total (B)						2.52				
		Net Qty = A - B					4.33		10.17	14.50	
	SH5										
	CH72.80	583.930	582.910	582.660			1.270				
	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	0.870	2.732	14.419	17.151	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.300	0.942	5.338	6.280	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	4.000	0.100	0.314	1.884	2.198	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.555	9.279	10.834	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.988				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.020	1.08			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)						1.56				
		Net Qty = A - B					2.43		14.50	16.93	
	SH6										
	CH83.70	583.920	583.160	582.910			1.010				
	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	0.900	2.826	17.151	19.977	
	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	0.060	0.188	6.280	6.468	
	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	0.050	0.157	2.198	2.355	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							1.280	10.834	12.115	
	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			
	Murum bedding							0.00			



Name of work: Development of Underground Sewerage Collection system for Zone 1 to VI and Zone Salim A.I. 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 G.R.P./DI pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. :- 133
Page No. :-

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

5 of 5

Shatabdi Nagar-02 Chamber Measurement

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Total (B)						1.28				
		Net Qty = A - B					1.89		16.93	18.82	
	SH7										
	CH98.60	584.080	583.170	582.920			1.160				
	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	1.160	3.642	19.977	23.619	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						1.439		12.115	13.554	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.642				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.910	0.96			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)						1.44				
		Net Qty = A - B					2.20		18.82	21.02	
	SH8										
	CH113.50	584.270	583.410	583.160			1.110				
	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	1.110	3.485	23.619	27.104	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	2.135	2.135	
	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	0.000	0.000	6.468	6.468	
	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	0.000	0.000	2.355	2.355	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading						1.386		13.554	14.940	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						3.485				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	0.860	0.91			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murrum bedding							0.00			
	Total (B)						1.39				
		Net Qty = A - B					2.10		21.02	23.12	



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

Date: 01.07.2014

Shatabdi Nagar-02 Quantity Node Abstract

9th R A BILL MEASUREMENTS

Branch Of Sewer SHATABDI NAGAR-02

Sl. No.	Description	ITEM 1		ITEM 2	ITEM 4	ITEM 7	ITEM 11	ITEM 13	ITEM 30	ITEM 35	EIRL 2		EIRL 2.a		EIRL 9.4	
		0-1.5	1.5-3.0								0-1.5	0-1.5	Full Rate	Rebate	250mm	300mm
1	For Pipe	74.056	2.161	17.527	6.373	12.770	21.169	21.400	78.948	0.070					54.000	30.000
2	For Manhole	27.104	2.135	6.468	2.355		14.940		23.123			10.000	(16.093)			
	Total	101.160	4.296	23.995	8.728	12.770	36.109	21.400	102.071	0.070		10.000	(16.093)	54.000	30.000	

CONTRACTOR
 Khilari Infra Pvt. Ltd.
 Authorized Signatory
 Mumbai

Fortress Infrastructure Advisory Services
 Division of Fortress Financial Services Ltd.
 Project Engineer

Fortress Infrastructure Advisory Services
 Division of Fortress Financial Services Ltd.
 Project Manager

CLIENT
 Dy. Engineer
 Ex. Engineer

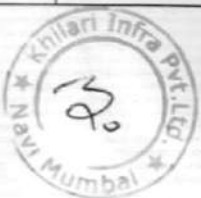
Date
 10

Name of work:- Development of Underground Sewerage Collection system for Zone 1 to V1 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.

M. V. L. Construction Pvt. Ltd. & CFCPL (Joint Venture)

9th R A BILL MEASUREMENTS DWC PIPE AZAD CHOWK TO ROSHAN 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							
	DWC - 315mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	AR 00 to AR 01										
	CH0.00	587.985	587.705	587.605			0.380	1.110			
	CH4.00	589.495	587.755	587.655			1.840				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			2.670	0.815	1.110	2.415	0.000	2.415	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.170	0.815	0.100	0.258	0.000	0.258	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading							0.505	0.000	0.505	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			3.420			3.420	0.000	3.420	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=>							2.415			
	Deduction of 315mm dia pipe pipe area	1.000		0.785	3.170	0.315	0.315	0.247			
	soiling							0.000			
	PCC							0.000			
	Murrum bedding							0.258			
								0.505			
								Net Qty = A - B	1.910	0.000	1.910
	AR 03 to AR 04										
	CH0.00	589.375	587.005	587.005			2.370	2.245			
	CH13.00	589.625	587.605	587.505			2.120				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.340	1.215	1.500	18.845	2.415	21.260	
	(b) For Lift 1.5m to 3.0m	1			11.340	0.815	0.745	6.278	0.000	6.278	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			11.340	0.815	0.100	0.924	0.258	1.183	
	Item No. : 11 Transportation of earth Transportation charges							1.808	0.505	2.313	



Page 3

Pipe lying MB Azad Chowk to Roshan 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							
	(b) For Lift 1.5m to 3.0m	1			12.340	0.815	0.160	1.609		1.887	3.496
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			13.340	0.815	0.100	1.087		1.887	2.974
	Item No. : 11 Transportation of earth Transportation charges							2.126		3.690	5.816
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			13.840			13.840		24.400	38.240
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							22.490			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	13.340	0.315	0.315	1.039			
	soling							0.000			
	PCC							0.000			
	Murram bedding							1.087			
								2.126			
								20.363		41.578	61.941
	AR 06 to AR 07										
	CH38.30	589.360	587.840	587.740				1.620			
	CH57.60	589.870	588.350	588.250				1.620			
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murram etc complete.										
	(a) For Lift 0 to 1.5m	1			16.640	1.215	0.420	8.491		45.887	54.378
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murram etc complete.										
	(a) For Lift 0 to 1.5m	1			16.640	1.215	0.950	19.207		14.243	33.450
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			16.640	1.215	0.130	2.628		1.349	3.978
	(b) For Lift 1.5m to 3.0m	1			16.640	0.815	0.120	1.627		3.496	5.123
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.640	0.815	0.100	1.438		2.974	4.412
	Item No. : 11 Transportation of earth Transportation charges							2.812		5.816	8.628
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			18.140			18.140		38.240	56.380
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							30.326			
	Deduction of 315mm dia pipe										
	pipe area	1.000		0.785	17.640	0.315	0.315	1.374			
	soling							0.000			
	PCC							0.000			
	Murram bedding							1.438			
								2.812			
								27.515		61.941	89.456



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. :- 145

Page No. :-

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

Page 1 of 1

Pipe Exc. Azad Chowk to Roshan Gate

9th R A BILL MEASUREMENTS DWC PIPE AZAD CHOWK TO ROSHAN GATE

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	RCC 300mm Dia										
	Width of Trench -										
	For Bottom Lift 0.00-1.50m- 0.3+0.08+0.08+0.5=0.960m										
	From Bottom Lift 1.50m-3.00m- 0.3+0.08+0.08+0.5+4=1.360m										
	From Bottom Lift 3.00m-4.50m- 0.3+0.08+0.08+0.5+0.4+0.4 = 1.760m										
	AR 01 TO AR 02										
	CH4.00	589.495	587.755	587.555			1.94	1.860			
	CH23.65	589.435	587.855	587.655			1.78				
	Item No. 1 :- Excavation for foundation/pipe trenches in all types of soil & soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			16.99	1.360	1.500	34.660	0.000	34.660	
	(b) For Lift 1.5m to 3.0m	1			16.99	0.960	0.360	5.872	0.000	5.872	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			17.99	0.960	0.200	3.454	0.000	3.454	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated material for a lead beyond initial lead up to 10km average rate							5.714	0.000	5.714	
	Item No.17 :-Extra item Lowering & Laying RCC NP3 class pipe of 300mm Dia	1			18.75			18.750	0.000	18.750	
	Item No 30 :- Refilling the excavated trenches										
	Total Excavation = A							40.531			
	Deduction										
	pipe area	1		0.785	17.99	0.400	0.400	2.260			
	soling							0.000			
	PCC							0.000			
	Murum bedding							3.454			
	Total = B							5.714			
					Net Qty = A - B			34.818	0.000	34.818	



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

Book No. :- 145
 Page No. :-

Manhole MB Azad Chowk to Roshan Gate

9th R A BILL MEASUREMENTS OF CHEMBERS AZAD CHOWK TO ROSHAN 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							
	Excavation of Chamber - For 1.20 dia chamber (upto 2.1m depth)- 1.20*0.50*0.5+0.5=2.66m Area for chamber upto Dia=2.66*2.66=7.075m AR 01										
	CB4.00	589.495	587.755	587.505			1.990				
	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	7.075	1.150	6.387	0.000	6.387	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.490	2.721	0.000	2.721	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666	0.000	1.666	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.050	0.278	0.000	0.278	
	Item No. : 11 Transportation of earth Transportation charges							3.098	0.000	3.098	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							11.052			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.740	2.344			
	Soiling							0.000			
	PCI	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			
	Total (B)							3.098			
								Net Qty = A - B	7.954	0.000	7.954
	AR 12										
	CB23.65	589.435	587.855	587.605			1.830				
	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	7.075	1.150	6.387	6.387	12.774	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.330	1.833	2.721	4.554	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.300	1.666	1.666	3.332	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.050	0.278	0.278	0.555	

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

Page No. :- 147

Page 2

Manhole MB Azad Chowk to Roshan Gate

Date	Particulars of work	DETAILS					Content of arrears	Last measurment		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Item No. : 11 Transportation of earth Transportation charges						2.882		3.098	5.980	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						10.164				
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.580	2.128			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murum bedding							0.000			
	Total (B)						2.882				
		Net Qty = A - B						7.281	7.954	15.235	
	AR 04										
	CH13.00	589.625	587.605	587.355			2.270				
	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	7.075	1.500	8.331	12.774	21.105	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.770	4.276	4.554	8.831	
	Item No. : 11 Transportation of earth Transportation charges							3.475	5.980	9.455	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						12.607				
	Deduction										
	Brick work	1		0.785	1.310	1.310	2.020	2.721			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murum bedding							0.000			
	Total (B)						3.475				
		Net Qty = A - B						9.132	15.235	24.368	
	AR 05										
	CH23.30	589.350	587.750	587.500			1.850				
	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	7.075	1.500	8.331	21.105	29.436	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.350	1.944	8.831	10.775	
	Item No. : 11 Transportation of earth Transportation charges							2.909	9.455	12.365	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=						18.275				
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.800	2.155			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murum bedding							0.000			
	Total (B)						2.909				
		Net Qty = A - B						7.365	24.368	31.733	
	AR 06										



Page 2

Manhole MB Azad Chowk to Roshan Gate

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total U Dat Quant
		GL	No		L	B	D		Page	Quantity	
			IL	EX.L							
	CH38.30	589.360	587.840	587.590			1.770				
	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	7.075	0.500	2.777		29.436	32.2
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.950	5.276		3.332	8.6
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.070	0.389		0.000	0.3
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.050	0.278		0.555	0.8
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.200	1.111		0.000	1.1
	Item No. : 11 Transportation of earth Transportation charges							2.802		12.365	15.16
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							8.720			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.520	2.048			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murrum bedding							0.000			
	Total (B)							2.802			
								5.918		31.733	37.65
	AR 07										
	CH57.60	589.870	588.350	588.100			1.770				
	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	7.075	0.500	2.777		32.212	34.989
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.950	5.276		8.609	13.885
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.070	0.389		0.389	0.778
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.050	0.278		0.833	1.111
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.200	1.111		1.111	2.222
	Item No. : 11 Transportation of earth Transportation charges							2.802		15.166	17.968
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							8.720			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.520	2.048			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			



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. :- 147
Page No. :-

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

Page 4

Manhole MB Azad Chowk to Roshan 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							
	Murum bedding							0.000			
	Total (B)							2.802			
		Net Qty = A - B									
	AR 08							5.918		37.651	
	CH76.90	590.510	588.770	588.520			1.990				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.840	4.665		34.989	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.660	3.666		13.885	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.290	1.611		0.778	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.075	0.000	0.000		1.111	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.075	0.200	1.111		2.222	
	Item No. : 11 Transportation of earth Transportation charges							3.098		17.968	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							9.941			
	Deduction										
	Brick work	1		0.785	1.310	1.310	1.740	2.344			
	soling							0.000			
	PCC	1		0.785	1.960	1.960	0.250	0.754			
	Murum bedding							0.000			
	Total (B)							3.098			
		Net Qty = A - B									
								6.844		43.569	
										50.413	



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

Name of Authority

Date of Measurement

Qty Azad Chowk to Roshan Gate

QUANTITY ABSTRACT

AZAD CHOWK TO ROSHAN GATE

Sr. No.	Description	ITEM 1		ITEM 2		ITEM 4		ITEM 7	ITEM 11	ITEM 12 315mm	ITEM 13 315mm	ITEM 21 0-2 m	ITEM 21.1 Rebate	ITEM 30	ITEM 35	Extra	
		0-1.5	1.6-3.0	0-1.5	1.6-3.0	0-1.5	1.6-3.0									Item 9.3 c	Item 9.4 c
1	For Pipe	98.500	1.110	93.657	0.000	5.595	8.242	9.303	17.153	74.520	74.520	7.000	-4.560	151.789	0.050	18.750	18.750
2	For Manhole	99.600	10.770	17.850	2.388	1.111	3.332		21.066				-4.560	50.413			
	Total	198.100	11.880	111.507	2.388	6.706	11.575	9.303	38.219	74.520	74.520	7.000	-4.560	202.201	0.050	18.750	18.750


Ex. Engineer

CLIENT


Dy. Engineer



Jr. Engineer

Project Manager

PMC



Project Engineer

CONTRACTOR



Authorized Signatory

9th R A BILL MEASURMENTS DWC PIPE AZAD CHOWK-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 315 mm Dia										
	Width of Trench - For Lift 0 to 1.50m- 0.315+0.5=0.815m										
	For Lift 1.5 to 3.00m- 0.315+0.5+0.4=1.215m										
	For Lift 3.0 to 4.5m- 0.315+0.5+0.4+0.4=1.615m										
	AZA1(old) TO AZA2										
	CH0.00	590.510	588.770	588.670			1.840	1.870			
	CH20.00	590.880	589.080	588.980			1.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.320	1.215	0.200	4.452		0.000	4.452
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.320	1.215	0.900	20.033		0.000	20.033
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.320	1.215	0.400	8.904		0.000	8.904
	(b) For Lift 1.5m to 3.0m	1			18.320	0.815	0.370	5.524		0.000	5.524
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)										
		1			18.820	0.815	0.100	1.534		0.000	1.534
	Item No. : 11 Transportation of earth Transportation charges including loading &							3.000		0.000	3.000
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia										
	Item No. 30 :- Refilling the excavated trenches ...	1			19.320			19.320		0.000	19.320
	Total Excavation=							38.913			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	18.820	0.315	0.315	1.47			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							1.53			
								3.00			
	Net Qty = A - B							35.91		0.00	35.91
	AZAD TO AZA3										
	CH20.00	590.880	589.080	588.980			1.900	1.775			
	CH20.00	591.680	590.130	590.030			1.650				



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			30.140	1.215	0.100	3.662		4.452	8.114
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			30.140	1.215	0.700	25.634		20.033	45.667
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			30.140	1.215	0.700	25.634		8.904	34.538
	(b) For Lift 1.5m to 3.0m	1			30.140	0.815	0.275	6.755		5.524	12.280
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			31.140	0.815	0.100	2.538		1.534	4.072
	Item No. : 11 Transportation of earth Transportation charges including loading &							4.963		3.000	7.963
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			31.640			31.640		19.320	50.960
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							61.685			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	31.140	0.315	0.315	2.43			
	soling							0.00			
	PCC							0.00			
	Murrum bedding							2.54			
								4.96			
								Net Qty = A - B		35.91	92.63
	AZA3 TO AZA4										
	CH52.80	591.680	590.130	590.030			1.650	1.565			
	CH73.80	591.900	590.520	590.420			1.480				
	Item No. 1 :- Excavation for foundation/pipe trenches in earth soils, Soft murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.690	0.815	0.200	3.046		8.114	11.160
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			18.690	0.815	0.400	6.093		45.667	51.760
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			18.690	0.815	0.900	13.709		34.538	48.247
	(b) For Lift 1.5m to 3.0m	1			18.690	0.815	0.065	0.990		12.280	13.270



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

Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Vencture)
 Authority No. AMC/Ward B&C/UIDSSMT/2014/184 Date 01.07.2014

Pipe Lying MB Azad chowk-02-300 dwc

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	pipe area	1.00		0.785	17.700	0.315	0.315	1.38			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.44			
								2.82			
		Net Qty = A - B							16.20	113.37	129.57
	AZAS TO AZA6										
	CH92.90	592.020	590.870	590.770				1.250			
	CH106.50	591.790	590.880	590.780				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			11.600	0.815	0.100	0.945	13.948	14.893	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	0.815	0.400	3.782	57.335	61.116	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			11.600	0.815	0.630	5.956	58.908	64.864	
	(b) For Lift 1.5m to 3.0m	1			11.600	0.815	0.000	0.000	13.270	13.270	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete (bedding)	1			12.200	0.815	0.100	0.994	7.103	8.097	
	Item No. : 11 Transportation of earth Transportation charges including loading &							1.945	13.891	15.836	
	Item No. 13 :- (d)Lowering & Laying of Polyethylene DWC pipe of 315mm Dia	1			12.700			12.700	89.150	101.850	
	Item No. 30 :- Refilling the excavated trenches										
	Total Excavation-							10.683			
	Deduction of 315mm dia pipe										
	pipe area	1.00		0.785	12.200	0.315	0.315	0.95			
	soling							0.00			
	PCC							0.00			
	Murum bedding							1.94			
								2.74	129.57	138.31	
		Net Qty = A - B									
	Item No :35 Shifting of Existing Utilities Length considerd up to 400mm including all and as directed by Engineer in-Charge				0.104					0.104	



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

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

9th R A BILL MEASURMENTS DWC PIPE AZAD CHOWK-02

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	DWC - 250mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.25+0.5=0.75m										
	For Lift 1.5 to 3.00m-										
	0.25+0.5+0.4=1.15m										
	For Lift 3.0 to 4.5m-										
	0.25+0.5+0.4+0.4=1.55m										
	DWC - 200mm Dia										
	Width of Trench -										
	For Lift 0 to 1.50m-										
	0.200+0.5=0.70m										
	For Lift 1.5 to 3.00m-										
	0.200+0.5+0.4=1.10m										
	For Lift 3.0 to 4.5m-										
	0.200+0.5+0.4+0.4=1.50m										
	AZA2 TO AZA2.1										
	CH0.00	590.880	589.380	589.280			1.600	1.200			
	CH6.00	591.050	590.350	590.250			0.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in										
	(a) For Lift 0 to 1.5m	1			3.990	0.700	0.100	0.279		14.893	15.17
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			3.990	0.700	0.700	1.955		61.116	63.0
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			3.990	0.700	0.400	1.117		64.864	65.9
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.290	0.700	0.100	0.300		8.097	8.3
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.435		15.836	16.2
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			4.790			4.790		0.000	4.7
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.352			
	Deduction of 250mm dia pipe										
	pipe area	1.00			0.785	4.290	0.200	0.200	0.13		
	soling							0.00			
	PCC							0.00			
	Murrum bedding							0.30			
								0.44			
	Net Qty = A - B							2.92		138.31	14



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

Page No. 157

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

Page 2 of 3

Azad chowk-02-300 dwc

Date	Particulars of work	DETAILS						Content of arrears	Last measurement		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	AZA3 TO AZA3.1										
	CH0.00	591.680	590.530	590.430			1.250	1.125			
	CH6.00	591.800	590.900	590.800			1.000				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			3.990	0.750	0.100	0.299	15.172	15.471	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			3.990	0.750	0.700	2.095	63.071	65.166	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			3.990	0.750	0.325	0.973	65.981	66.954	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			4.290	0.750	0.100	0.322	8.397	8.719	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.532	16.271	16.803	
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			4.790			4.790	0.000	4.790	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							3.367			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	4.290	0.250	0.250	0.21			
	soiling							0.00			
	PCC							0.00			
	Murrum bedding							0.32			
								0.53			
	Net Qty = A - B							2.83	141.22	144.06	
	AZA4 TO AZA4.1										
	CH0.00	591.900	590.820	590.720			1.180	1.040			
	CH5.00	592.000	591.200	591.100			0.900				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			2.990	0.750	0.200	0.449	15.471	15.920	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete. (a) For Lift 0 to 1.5m	1			2.990	0.750	0.400	0.897	65.166	66.063	
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			2.990	0.750	0.440	0.987	66.954	67.941	
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.290	0.750	0.100	0.247	8.719	8.966	
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.408	16.803	17.211	



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

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

Date	Particulars of work	DETAILS						Content of arrears	Last measurment		Total Upto Date Quantity
		No			L	B	D		Page	Quantity	
		GL	IL	EX.L							
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia	1			3.790			3.790		4.790	8.580
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.332			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	3.290	0.250	0.250	0.16			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.25			
								0.41			
		Net Qty = A - B						1.92		144.06	145.98
	AZA5 TO AZA5.1										
	CH0.00	592.020	591.070	590.970			1.050	0.925			
	CH4.80	592.100	591.400	591.300			0.800				
	Item No. 1 :- Excavation for foundation/pipe trenches in (a) For Lift 0 to 1.5m	1			3.100	0.700	0.100	0.217		15.920	16.137
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murum etc complete. (a) For Lift 0 to 1.5m	1			3.100	0.700	0.400	0.868		66.063	66.931
	Item No. 4 :- Excavation for foundation/pipe trenches in soft rock etc complete. (a) For Lift 0 to 1.5m	1			3.100	0.700	0.425	0.922		67.941	68.863
	(b) For Lift 1.5 to 3.0m	1			3.100	0.700	0.000	0.000		13.270	13.270
	Item No. 7 :- Filling in plinth and floors/ trenches etc complete.(bedding)	1			3.400	0.700	0.100	0.238		8.966	9.204
	Item No. : 11 Transportation of earth Transportation charges including loading &							0.345		17.211	17.556
	Item No. 13 :- (b)Lowering & Laying of Polyethylene DWC pipe of 200mm Dia	1			3.900			3.900		4.790	8.690
	Item No. 13 :- (c)Lowering & Laying of Polyethylene DWC pipe of 250mm Dia									8.580	8.580
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							2.007			
	Deduction of 250mm dia pipe										
	pipe area	1.00		0.785	3.400	0.200	0.200	0.11			
	soling							0.00			
	PCC							0.00			
	Murum bedding							0.24			
								0.34			
		Net Qty = A - B						1.66		145.98	147.64
	Item No :35 Shifting of Existing Utilities Length considered up to 400mm including all and as directed by Engineer in-Charge				0.021					0.10	0.13



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 Gobwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

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

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

Page 1 of 4

Azad chowk-02-300 dwcCHEMBER Measurement

9th R A BILL MEASURMENTS DWC CHEMBER AZAD CHOWK-02

Date	Particulars of work	DETAILS					Content of arrears	Last measurement		Total Upto Date Quantity	
		No			L	B		D	Page		Quantity
		GL	IL	EX.L							
	Excavation of Chamber - For 1.20m dia Manhole (upto a depth of 2.0m)- 1.20+0.23+0.23+0.5+0.5=2.66m										
	Area for Manhole=2.66*2.66=7.0756m										
	AZA2										
	CH20.00	590.880	589.080	588.830			2.050				
	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	7.076	0.200	1.111		0.000 1.111	
	Item No. 2 :- Excavation for foundation/pipe trenches in Hard murrum etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.900	4.999		0.000 4.999	
	Item No. 4:- Excavation for foundation/pipe trenches in soft rock etc complete.										
	(a) For Lift 0 to 1.5m	1			0.785	7.076	0.400	2.222		0.000 2.222	
	(b) For Lift 1.5m to 3.0m	1			0.785	7.076	0.550	3.055		0.000 3.055	
	Item No. : 11 Transportation of earth Transportation charges including loading & unloading excavated							3.469		0.000 3.469	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation=							11.386			
	Deduction										
	Brick work	1		0.785	1.390	1.390	1.800	2.730			
	PCC	1		0.785	1.940	1.940	0.250	0.739			
	Soling	1		0.785	1.940	1.940	0.000	0.000			
								3.469			
	Net Qty = A - B							7.918		0.000 7.918	
	AZA3										
	CH52.80	591.680	590.130	589.880			1.800				
	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	7.076	0.100	0.555		1.111 1.666	



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

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

Contract No. B & C/HIDSSMT/2014/184 Date 01.07.2014

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)=						5.118				
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.380	1.46			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.94			
		Net Qty = A - B								14.826	18.009
	AZA5										
	CH92.90	592.020	590.870	590.620			1.400				
	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	0.200	0.628	2.294	2.922	
	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	0.400	1.256	10.143	11.399	
	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	0.800	2.512	8.936	11.448	
	Item No. : 11 Transportation of earth Transportation charges							1.692	8.493	10.186	
	Item No. 30 :- Refilling the excavated trenches ...										
	Total Excavation(A)=							4.396			
	Deduction										
	Brick work	1.00		0.785	1.16	1.16	1.150	1.21			
	soling							0.00			
	PCC	1.00		0.785	1.56	1.56	0.25	0.48			
	Murum bedding							0.00			
	Total (B)							1.69			
		Net Qty = A - B								18.009	20.713
	AZA6										
	CH106.50	591.790	590.880	590.630			1.160				
	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	0.100	0.314	2.922	3.236	
	(b) For Lift 1.5 to 3.0m	1			0.785	4.000	0.000	0.000	0.000	0.000	
	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	0.400	1.256	11.399	12.655	



