



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

Padegaon 11MLD.

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Measurements of Eleventh Running Account Bill

PART-A for STP (Turnkey Work)

e	STP at Padegaon 10MLD
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II CONSTRUCTION WORK PAYMENT SCHEDULE

A Civil Work

1 Water Retaining Structure

Item 1.1 Inlet chamber.fine Screen Chamber @ 0.5%

e Walls Full Height Complete

Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
C-12,13,15,20,21,22,23,24,25,26,27,28,29,30		14	0.300	0.300	3.300	4.16 /
	S1 Slab On Lvl 558.2	1	1.900	2.800	0.200	1.06 /
	W1 Wall	1	4.700	0.200	3.500	3.29 /
	W2 Wall	1	2.800	0.200	3.500	1.96 /
	W1A Wall	1	1.900	0.200	2.300	0.87 /
	S2 Slab on Lvl 560.5	1	7.000	2.100	0.200	2.94 /
	S4 Slab on Lvl 560.05	1	1.400	6.600	0.200	1.85 /
	SB3	1	6.100	0.200	1.370	1.67 /
	SB1	1	6.100	0.200	1.370	1.67 /
	SB2	1	7.000	0.200	1.370	1.92 /
	SB4	1	7.600	0.200	1.200	1.82 /
	B1 Beam	2	1.700	0.300	0.250	0.26 /
	B1 A Beam	1	1.000	0.300	0.100	0.03 /
	RA 10 Quantity					-16.42 /
Quantity executed upto RA Bill 10		16.42	Quantity executed in RA Bill 11			7.08 /
Total Quantity		23.50	Quantity executed upto date			23.50 /
			Percentage work done upto date			100.00% /

f Slabs / Walkway and Railling Complete

Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	between C21 to C25 ws2 slab	1	13.200	1.200	0.120	1.901 /
	between C21to C15 ws2 slab	1	5.000	1.200	0.120	0.720 /
	between C13to C14 S9 slab	1	4.700	1.200	0.130	0.733 /
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			3.35 /
Total Quantity		3.35	Quantity executed upto date			3.35 /
			Percentage work done upto date			100.00% /



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Measurement Book

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

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Item 1.2 Degritting Units @ 0.5%						
e Walls Full Height Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	C-1,2,3,4,5,6,7,8,9,10,11,14,16,17,18,19	16	0.300	0.300	2.850	4.10 ✓
	B2 Beam	3	3.100	0.300	0.330	0.92 ✓
	B5 Beam	1	6.000	0.300	0.330	0.59 ✓
	B6 Beam	2	6.000	0.300	0.330	1.19 ✓
	S5 Slab	1	3.100	11.200	0.200	6.94 ✓
	S4 Slab	1	5.300	1.400	0.200	1.48 ✓
	S4 Slab	1	5.200	1.050	0.200	1.09 ✓
	S7 Slab	1	6.300	6.300	0.200	7.94 ✓
	B1A Beam	1	1.000	0.300	0.100	0.03 ✓
	SB 3 Wall	1	6.100	0.200	1.700	2.07 ✓
	SB 4 Wall	1	9.700	0.200	1.700	3.30 ✓
	W4 Wall	2	6.000	0.200	1.500	3.60 ✓
	W5 Wall	1	8.800	0.200	0.800	1.41 ✓
	W6 & W7 Wall	2	7.520	0.200	0.700	2.11 ✓
	S10 Slab	1	7.520	0.800	0.200	1.20 ✓
	S6 Slab	1	1.000	9.100	0.200	1.82 ✓
	RA 10 Quantity					-26.11 ✓
Quantity executed upto RA Bill 10		26.11	Quantity executed in RA Bill 11			13.69 ✓
Total Quantity		39.80	Quantity executed upto date			39.80 ✓
						100.00% ✓
						Percentage work done upto date
f Slabs / Walkway and Ralling Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	between C17 to C18 ws1 slab an side	1	5.250	1.200	0.130	0.819 ✓
	between C5-13-14 to C6-9-15-16-17 S9 slab an side	1	6.000	1.250	0.130	0.975 ✓
	between C4to C5 ws2 slab and side	1	3.820	1.200	0.120	0.550 ✓
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			2.34 ✓
Total Quantity		2.34	Quantity executed upto date			2.34 ✓
						100.00% ✓
						Percentage work done upto date



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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

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

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Item 1.3 SBR Basin @ 14.5%						
f Slabs / Walkway and Railing Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	WS1 slab on W1 wall	2	20.000	1.200	0.130	6.240 ✓
	WS2 slab on W6 wall (North) Selector	1	17.500	1.200	0.120	2.520 ✓
	WS2 slab on W6 wall (East)	1	25.400	1.200	0.120	3.658 ✓
	WS2 slab on W7 wall	1	29.500	1.200	0.120	4.248 ✓
	WS2 slab on W6 wall (South)	2	17.500	1.200	0.120	5.040 ✓
	WS2 slab on W6 wall (West)	1	18.350	1.200	0.120	2.642 ✓
	WS3 slab on W6 wall (West)	1	11.150	1.400	0.130	2.029 ✓
	WS3 slab on W6 wall (East)	1	9.510	1.400	0.130	1.731 ✓
	RA 10 Quantity					-17.71 ✓
Quantity executed upto RA Bill 10		17.71	Quantity executed in RA Bill 11			10.40 ✓
Total Quantity		28.11	Quantity executed upto date			28.11 ✓
						Percentage work done upto date
						100.00% ✓
Item 1.5 Gravity Sludge Thickener and Thickened Sludge Sump @ 0.75%						
a Excavation and dressing Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Excavation for foundation	1	0.785	100	3	235.5 ✓
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			235.50 ✓
Total Quantity		235.50	Quantity executed upto date			235.50 ✓
						Percentage work done upto date
						100.0% ✓
b PCC M15 for Bed Concrete / Levelling Course Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	PCC for Bottom Raft	1	0.785	76.388	0.150	8.99 ✓
	PCC of gst suction pit portion	1	0.785	1.210	0.150	0.14 ✓
	PCC for staircase column footing	2	1.030	1.030	0.150	0.32 ✓
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			9.46 ✓
Total Quantity		9.46	Quantity executed upto date			9.46 ✓
						Percentage work done upto date
						100.00% ✓
c RCC Raft						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	RAFT of gst	1	0.785	72.932	0.200	11.45 ✓
	RAFT of gst suction pit	1	0.785	1.210	0.200	0.19 ✓
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			11.64 ✓
Total Quantity		11.64	Quantity executed upto date			11.64 ✓
						Percentage work done upto date
						100.00% ✓



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AURANGABAD MUNICIPAL CORPORATION.

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d RCC Walls Half Height Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	W1 Wall	1	21.980	0.200	1.750	7.69 /
	Lauder slab	1	18.526	0.550	0.200	2.04 /
	Staircase footing	2	0.830	0.830	0.300	0.41 /
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			10.14 /
Total Quantity		10.14	Quantity executed upto date			10.14 /
Percentage work done upto date						100.00%
2 Buildings Structure Work						
2.1 Administration Building (3%) And Blower & MCC house (3.5%) total = 6.5%						
e RCC Super Structure from Lintel Level to roof slab Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	RB105	1	18.645	0.300	0.390	2.18 /
	RB6,8	2	0.865	0.230	0.390	0.16 /
	RB18	1	0.865	0.230	0.390	0.08 /
	RB26,27	1	4.475	0.230	0.390	0.40 /
	RB29	1	1.960	0.230	0.390	0.18 /
	RB7	1	3.785	0.300	0.390	0.44 /
	RB6	1	3.785	0.300	0.390	0.44 /
	RB7to10	1	12.460	0.300	0.390	1.46 /
	RB14	1	3.700	0.300	0.390	0.43 /
	RB11,12	1	11.140	0.300	0.390	1.30 /
	RB13	1	2.400	0.300	0.390	0.28 /
	RB15,16,17,18	1	17.770	0.300	0.390	2.08 /
	RB19,20,21	1	11.800	0.300	0.390	1.38 /
	RB22,23	1	7.365	0.300	0.390	0.86 /
	RB24,25,26	1	11.800	0.300	0.390	1.38 /
	RB27,30,33	3	6.015	0.300	0.390	2.11 /
	RB28,29,31,32	2	5.670	0.300	0.390	1.33 /
	RB34,35	1	11.985	0.300	0.390	1.40 /
	RB44	1	6.200	0.300	0.390	0.73 /
	RS1	1	19.960	13.460	0.150	40.30 /
Quantity executed upto RA Bill 10		81.26	Quantity executed in RA Bill 11			58.919 /
Total Quantity		140.180	Quantity executed upto date			140.180 /
Percentage work done upto date						100.00% /
f Brick work Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Ground Floor 230mm thk wall					
	from C1-2-3-4-5-6	1	17.930	0.230	4.955	20.43 /
	from C19-20-21-22-23	1	17.770	0.230	4.955	20.25 /
	from C1-7-15-19;2-9-16-20;6-13-23	3	11.800	0.230	4.955	40.34 /
	from C7-8	1	3.785	0.230	4.955	4.31 /
	from C15-16 -C17 projection	1	11.140	0.230	4.955	12.70 /
	wall connecting C8 & C1-2	1	7.630	0.230	4.955	8.70 /
	from C17-21 & C18-22	2	4.465	0.230	4.955	10.18 /



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AURANGABAD MUNICIPAL CORPORATION.

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Measurement Book

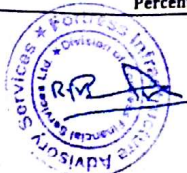
Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Salim Ali, Constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshtrawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CIDCO (Airport), 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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Ground Floor 115mm thk wall						
Bath Partition wall Short	2	1.200	0.115	2.400		0.66 /
Bath Partition wall long	2	1.200	0.115	2.400		0.66 /
washroom & Bath partition wall long	1	3.975	0.115	2.400		1.10 /
washroom wall short	1	1.315	0.115	2.400		0.36 /
First Floor 230mm thk wall						
from C1-2-3-4-5-6	1	17.930	0.230	4.955		20.43 /
from C19-20-21-22-23	1	17.770	0.230	4.955		20.25 /
from C1-7-15-19;2-9-16-20;6-13-23	3	11.800	0.230	4.955		40.34 /
from C7-8	1	3.785	0.230	4.955		4.31 /
from C15-16 -C17 projection	1	11.140	0.230	4.955		12.70 /
wall connecting C8 & C1-2	1	7.630	0.230	4.955		8.70 /
from C17-21 & C18-22	2	4.465	0.230	4.955		10.18 /
Parapet wall	1	60.200	0.230	0.900		12.46 /
Deduction for opening	-1	1.500	0.230	4.955		-1.71 /
Deduction for Door D	-1	3.000	0.230	5.000		-3.45 /
Deduction for Door D1	-2	1.200	0.230	2.400		-1.32 /
Deduction for Door D2	-11	1.000	0.230	2.400		-6.07 /
Deduction for Door D3	-2	2.000	0.230	2.400		-2.21 /
Deduction for Door D4	-9	0.750	0.230	2.100		-3.26 /
Deduction for Window W	-13	1.800	0.230	1.500		-8.07 /
Deduction for Window W1	-4	1.800	0.230	1.500		-2.48 /
Deduction for Ventilator V	-23	1.800	0.230	0.600		-5.71 /
Deduction for Ventilator V1	-2	3.410	0.230	0.600		-0.94 /
Deduction for Louvered window L	-9	0.750	0.230	0.600		-0.93 /
Deduction for Glass door GD	-1	2.600	0.230	2.400		-1.44 /
Deduction for Glass door GD1	-1	2.000	0.230	2.400		-1.10 /
Deduction for Glass door GP1	-1	2.420	0.230	3.150		-1.75 /
Deduction for Glass door GP2	-1	3.105	0.230	3.150		-2.25 /
Deduction for Glass door GP3	-1	3.615	0.230	3.150		-2.62 /
Deduction for Glass door GP4	-1	3.670	0.230	3.150		-2.66 /
Deduction for Glass door GP5	-1	1.800	0.230	12.280		-5.08 /
First Floor 115mm thk wall						
Bath Partition wall Short	2	1.200	0.115	2.400		0.66 /
Bath Partition wall long	2	1.200	0.115	2.400		0.66 /
washroom & Bath partition wall long	1	3.975	0.115	2.400		1.10 /
washroom wall short	1	1.315	0.115	2.400		0.36 /
Quantity executed upto RA Bill 10	0.00		Quantity executed in RA Bill 11		198.782 /	
Total Quantity	198.782		Quantity executed upto date		198.782 / Cum	
Percentage work done upto date					100.0% /	
2.2	Chlorination Bulding @ 1.5%					
e	RCC Super Structure from Lintel Level to roof slab Complete					
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	RB1, RB2 and RB3, RB4 and RB5, RB6	3	7.425	0.300	0.380	2.539 /
	RB7, RB8 and RB9, RB10 and RB11, RB12	3	8.460	0.300	0.380	2.893 /
	RS1	1	8.460	7.425	0.130	8.166 /
Quantity executed upto RA Bill 10	0.00		Quantity executed in RA Bill 11		13.599 /	
Total Quantity	13.599		Quantity executed upto date		13.599 / Cum	
Percentage work done upto date					100.0% /	



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f Brick Work Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Brickwork From C1-2-3	1	6.200	0.230	4.050	5.78
	Brickwork from C3-6	1	3.230	0.230	4.050	3.01
	Brickwork From C4-5-6	1	6.200	0.230	4.150	5.92
	Brickwork From C7-8-9,6-9	1	7.700	0.230	0.900	1.61
	Brickwork from C1-4	1	3.230	0.230	0.950	0.71
	Brickwork from C4-7	1	4.330	0.230	0.950	0.95
	Deduction For Window	-3	1.500	0.230	1.500	-1.55
	Deduction For Ventilator	-4	1.500	0.230	0.600	-0.83
	Deduction for Door	-1	1.000	0.230	2.100	-0.48
	Parapet wall	2	15.400	0.230	0.400	2.83
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			17.934
Total Quantity		17.934	Quantity executed upto date			17.934
Percentage work done upto date						100.0%
f Inside Outside Plaster Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Internal Plaster					
	Internal Wall from C1-2-3	1	6.800	-	4.500	30.60
	Internal Wall from C3-6	1	3.230	-	4.500	14.54
	Internal Wall from C4-5-6 (B/F)	2	6.800	-	4.500	61.20
	Internal Wall from C1-4	1	3.230	-	1.300	4.20
	Internal Wall from C4-7	1	4.330	-	1.300	5.63
	Ceiling in between C1-2-3-4-5-6	1	6.800	-	3.230	21.96
	Ceiling in between C4-5-6-7-8-9	1	6.800	-	4.330	29.44
	Beam sides RB9-10	2	7.560	-	0.250	3.78
	Internal plaster From C7-8-9,6-9	1	8.380	-	1.000	0.38
	Parapet wall	1	29.880	-	0.400	11.95
	Deduction					
	Deduction For Window	-3	1.500	-	1.500	-6.75
	Deduction For Ventilator	-4	1.500	-	0.600	-3.60
	Deduction for Door	-1	1.000	-	2.100	-2.10
	Extrnal Plaster					
	External Wall from C1-2-3	1	6.800	-	5.010	34.07
	External Wall from C3-6	1	3.230	-	4.630	14.95
	External Wall from C1-4	1	3.230	-	1.430	4.62
	External Wall from C4-7	1	4.330	-	1.430	6.19
	External Wall plaster From C7-8-9,6-9	1	8.380	-	1.230	10.31
	column B,9	2	1.200	-	4.250	10.20
	Beam Face at C7-8-9	1	7.400	-	0.380	2.81
	Beam Face at C6-9	1	4.480	-	0.380	1.70
	Parapet wall	1	29.880	-	0.400	11.95
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			276.040
Total Quantity		276.040	Quantity executed upto date			276.040
Percentage work done upto date						100.0%
2.3 a Centrifuse feed pump house and Centrifuse Building @ 1.5%						
Excavation and dressing Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Excavation for foundation of Centrifuse feed pump house and Centrifuse Building	1	18.00	11.00	3.00	594
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			594.00
Total Quantity		594.00	Quantity executed upto date			594.00
Percentage work done upto date						100.0%



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(From No.52)

Measurement Book

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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b PCC M15 for Bed Concrete / Levelling Course Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Footing F1, C-1,2,3,7	4	1.300	1.300	0.100	0.68
	Footing F2, C-4,5,6,10,12	5	1.400	1.400	0.100	0.98
	Footing F3, C-11	1	1.550	1.550	0.100	0.24
	Footing F4, C-8,9,13,14	4	2.050	1.950	0.100	1.60
	Footing F5, C-15,16	2	1.300	1.300	0.100	0.34
	Below DWPE dosing tank slab	1	1.800	3.200	0.100	0.58
	Below sludge sump tank slab	1	3.500	4.800	0.100	1.68
	Below thickner recirculation sump	1	3.050	2.400	0.100	0.73
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			6.82
Total Quantity		6.82	Quantity executed upto date			6.82
			Percentage work done upto date			100.0%
c RCC Raft / Footing, Piling and Column upto Plinth Level Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	RCC of Footings					
	Footing F1, C-1,2,3,7	4	1.100	1.100	0.300	1.45
	Footing F2, C-4,5,6,10,12	5	1.200	1.200	0.350	2.52
	Footing F3, C-11	1	1.350	1.350	0.350	0.64
	Footing F4, C-8,9,13,14	4	1.850	1.750	0.450	5.83
	Footing F5, C-15,16	2	1.100	1.100	0.300	0.73
	RCC of Plinth Beams					
	Beam PB-1,3	2	3.332	0.300	0.380	0.76
	Beam PB-2,4	2	2.728	0.300	0.380	0.62
	Beam PB-5	1	2.657	0.300	0.380	0.30
	Beam PB-6	1	3.403	0.300	0.380	0.39
	Beam PB-7	1	1.900	0.300	0.380	0.22
	Beam PB-8	1	2.657	0.300	0.380	0.30
	Beam PB-9,10	2	3.403	0.300	0.380	0.78
	Beam PB-11	1	3.608	0.300	0.380	0.41
	Beam PB-12	1	2.372	0.300	0.380	0.27
	Beam PB-15,19	2	2.360	0.300	0.380	0.54
	Beam PB-16,20	2	6.200	0.300	0.530	1.97
	Beam PB-17,21	2	2.650	0.300	0.380	0.60
	Beam PB-18,22	2	3.155	0.300	0.380	0.72
	RCC of Columns					
	Column C-1,2,3	3	0.300	0.300	1.800	0.49
	Column C-11,12	4	0.300	0.300	1.800	0.65
	Column C-7	1	0.300	0.300	1.800	0.16
	Column C-8,9,13,14	4	0.300	0.380	1.800	0.82
	Column C-15,16	2	0.300	0.300	1.800	0.32
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			21.49
Total Quantity		21.49	Quantity executed upto date			21.49
			Percentage work done upto date			100.0%
d RCC Super Structure upto Lintel Level						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	RCC of Columns					
	Column C-1,2,3	3	0.300	0.300	5.400	1.46
	Column C-11,12	4	0.300	0.300	5.350	1.93
	Column C-7	1	0.300	0.300	5.400	0.49
	Column C-8,9,13,14	4	0.300	0.380	5.400	2.46
	Column C-15,16	2	0.300	0.300	5.400	0.97



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of work:- Development of Underground Sewerage Collection system for Zone I to VI and Zone Safim 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. :- **034**

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

Padegaon 11K/D.

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RCC of Sludge sump & thickner recirculation sump						
W1 wall short span	2	2.500	0.200	2.500		2.50 ✓
W1 wall Short Projection	2	2.500	0.030	0.230		0.03 ✓
W1 wall long span	2	4.400	0.200	2.500		4.40 ✓
W2 wall short span	1	2.000	0.200	2.500		1.00 ✓
W2 wall long span	2	2.200	0.200	2.500		2.20 ✓
W2 wall Short Projection	1	2.000	0.030	0.230		0.01 ✓
RCC of Raft						
Sludge sump raft	1	3.300	4.600	0.200		3.04 ✓
Thickner recirculation sump	1	2.850	2.400	0.200		1.37 ✓
RCC of Dosing tank Wall						
W3 wall short span	3	1.200	0.200	2.000		1.44 ✓
W3 wall long span	2	3.000	0.200	2.000		2.40 ✓
Walk way slab of dosing tank	1	3.000	0.750	0.130		0.29 ✓
RCC of Floor Beams						
Beam FB-1,3	2	2.575	0.300	0.250		0.39 ✓
Beam FB-2,4	2	2.728	0.300	0.250		0.41 ✓
Beam FB-5,8,10,12	4	2.457	0.300	0.300		0.88 ✓
Beam FB-6,9,11,13	4	3.403	0.300	0.300		1.23 ✓
Beam FB-7	1	1.900	0.300	0.320		0.18 ✓
Beam FB-14	1	3.608	0.300	0.300		0.32 ✓
Beam FB-15	1	2.372	0.300	0.300		0.21 ✓
Beam FB-16,20,23	3	2.645	0.300	0.250		0.60 ✓
Beam FB-17,21,24	3	3.155	0.300	0.250		0.71 ✓
Beam FB-18	1	2.360	0.300	0.300		0.21 ✓
Beam FB-19,22	2	6.200	0.300	0.450		1.67 ✓
Beam MB-1	1	2.360	0.300	0.230		0.16 ✓
RCC of Slab						
Slab FS1	1	6.960	6.700	0.130		6.06 ✓
Slab FS2	1	6.960	2.522	0.150		2.63 ✓
Slab FS3	1	6.960	2.218	0.150		2.32 ✓
Slab FS3	1	6.960	2.218	0.150		2.32 ✓
Quantity executed upto RA Bill 10	0.00		Quantity executed in RA Bill 11		46.30	
Total Quantity	46.30		Quantity executed upto date		46.30	
					Percentage work done upto date	
					100.0%	
e RCC Super Structure from Lintel Level to Roof slab Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m³)
	RCC of Columns					
	Column C-7	1	0.300	0.300	4.500	0.41 ✓
	Column C-8,9,13,14	4	0.300	0.380	4.500	2.05 ✓
	Column C-15,16	2	0.300	0.300	4.500	0.81 ✓
						0.00
	RCC of Roof Beams					
	Beam RB-1,3,5	3	2.657	0.300	0.250	0.60 ✓
	Beam RB-2,4,6	3	3.403	0.300	0.250	0.77 ✓
	Beam RB-7	1	3.606	0.300	0.530	0.57 ✓
	Beam RB-8	1	2.332	0.300	0.400	0.28 ✓
	Beam RB-9,10	2	6.200	0.300	0.400	1.49 ✓
						0.00
	RCC of Slab					
	Slab RS1	1	7.260	7.260	0.130	6.85 ✓
Quantity executed upto RA Bill 10	0.00		Quantity executed in RA Bill 11		13.82 ✓	
Total Quantity	13.82		Quantity executed upto date		13.82	
					Percentage work done upto date	
					100.00%	



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Measurement Book

035

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. :-

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

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

Padegaon 11MLD

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2.5 H.T. Substation Civil work @ 1%							
a Excavation and dressing Complete							
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)	
	Excavation for foundation Part I	1	20.00	8.00	3.00	480.00 ✓	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			480.00 ✓	
Total Quantity		480.00	Quantity executed upto date			480.00 ✓	
			Percentage work done upto date			100.0% ✓	
b PCC M15 for Bed Concrete / Levelling Course Complete							
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)	
	Footing F1, C-1,4,5,8	4	1.65	1.45	0.1	0.96 ✓	
	Footing F2, C-2,3,6,7	4	1.95	1.85	0.1	1.44 ✓	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			2.40 ✓	
Total Quantity		2.40	Quantity executed upto date			2.40 ✓	
			Percentage work done upto date			100.0% ✓	
c RCC Raft / Footing, Piling and Column upto Plinth Level Complete							
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)	
	RCC of Footings					2.36 ✓	
	Footing F1, C-1,4,5,8	4	1.45	1.25	0.33	4.62 ✓	
	Footing F2, C-2,3,6,7	4	1.75	1.65	0.40		
	RCC of Columns					1.06 ✓	
	Column-1,4,5&8	4	1.68	0.35	0.45	1.01 ✓	
	Column-2,3,6&7	4	1.60	0.35	0.45		
	RCC of Plinth Beams					3.02 ✓	
	Beam PB-1,3,4 & 6	4	4.755	0.3	0.53	1.49 ✓	
	Beam PB-2 & 5	2	4.70	0.3	0.53	1.34 ✓	
	Beam PB-8 & 9	2	4.21	0.3	0.53	1.27 ✓	
	Beam PB-7 & 10	2	3.98	0.3	0.53	16.16 ✓	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			16.16 ✓	
Total Quantity		16.16	Quantity executed upto date			16.16 ✓	
			Percentage work done upto date			100.0% ✓	
D Mechanical Work @ 36%							
3 Aeration Assembly (including Diffusers and Air Grid), Coarse bubble diffusers in selector Zone							
3.1 On Supply of Material on site duly tested and inspected @ 75%							
Date of Measurement	Particulars of work	DC No	Dated	Supplied By	Make	Quantity	Remark
	Supply of C Tech Components for 10 MLD STP; 1) Fine Bubble Membrane Diffusers in Aeration Zone and Fixed Type UPVC air grid in Aeration Zone complete with supports & Hardware for SBR portion	INV099/SFC /16-17	22.11.2016	SFC Environmental Technologies Pvt. Ltd.	EDI,USA	1 Lot (2 Set for 2 Basin)	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			2.00 ✓	
Total Quantity		2.00	Quantity executed upto date			2.00 ✓	
			Percentage work done upto date			100.00% ✓	



21/07/16



Measurement Book

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. :- 036
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

Padegaon 11MLD.

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5 Treated Water Draw off Units (Decanters)									
5.1 On Supply of Material on site duly tested and inspected @ 75%									
Date of Measurement	Particulars of work			DC No	Dated	Supplied By	Make	Quantity	Remark
	On Supply of C Tech Compnents for 10 MLD STP at Padegaon, Aurangabad, Maharashtra, Consisting of: 1) Moving Weir type Decanter Assembly in SS304, 2) Core Parts Including Actuator, Geared Motor & VFD, Mercury Flot Swith, Magnetic Limit Switch etc. Complete for Decanter			DC0085/SF C/16-17	28.10.2016	SFC Environmental Technologies Pvt. Ltd.	SFC Environmental Technologies Pvt. Ltd.	1 Lot (2 Decanters)	Inspection SGS(Third Party)Report Attached Ref No-IN-SH-5501-11P02-04-118
Quantity executed upto RA Bill 10		0.00		Quantity executed in RA Bill 11				2.00 ✓	
Total Quantity		2.00 Nos		Quantity executed upto date				2.00 ✓	
Percentage work done upto date								100.00%	
5.2 On Erection/Instalation Complete @ 15%									
Date of Measurement	Particulars of work			DC No	Dated	Supplied By	Make	Quantity	Remark
	C Tech Compnents for 10 MLD STP at Padegaon, Aurangabad, Maharashtra, Consisting of: 1) Moving Weir type Decanter Assembly in SS304, 2) Core Parts Including Actuator, Geared Motor & VFD, Mercury Flot Swith, Magnetic Limit Switch etc. Complete for Decanter							2	
Quantity executed upto RA Bill 10		0.00		Quantity executed in RA Bill 11				2.00 ✓	
Total Quantity		2.00 Nos		Quantity executed upto date				2.00 ✓	
Percentage work done upto date								100.00% ✓	
C Electrical Work @ 10%									
6 PLC and PLC Panel @ 1%									
6.1 On Supply of Material on site duly tested and inspected @ 75%									
Date of Measurement	Particulars of work			DC No	Dated	Supplied By	Make	Quantity	Remark
	On Supply of PLC and PLC Panel for SBR portion			DC106/SFC/16-17	10.12.2016	SFC	-	1	
Quantity executed upto RA Bill 10		0.00		Quantity executed in RA Bill 11				1.00% ✓	
Total Quantity		1.00		Quantity executed upto date				1.00% ✓	
Percentage work done upto date								100.00% ✓	

