



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, Precting, Testing and Commissioning of Sewage Treatment Plant based on modern technology at Nakshirawadi (Kanchanwadi), Banewadi, Siddharth Garden, Zalta, Padegaon, CHDCO (Airport), Construction, Prection, Testing and Commissioning of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and CHDCO (Airport), Providing, lowering, laying jointing and testing, rising main GRP DI pipe line from Golwadi SPS to Nakshirawadi (Kanchanwadi) STP and Ward No 98 to STP for Aurangabad City

Book No. :-

Page No. :- 78

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

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

MH RALLI 25 MLD STP

Page 1 of 8

Measurements of Eleventh Running Account Bill																			
PART-A for STP (Turnkey Work)																			
d	STP at Zalta 35 MLD																		
e	CONSTRUCTION WORK PAYMENT SCHEDULE																		
f	Civil Work																		
g	Water Retaining Structure																		
Item 1.1	Inlet chamber, fine Screen Chamber @ 0.5%																		
f	Slabs / Walkway and Railling Complete																		
Note - 100% Quantity Executed in RA 10th so hold amount to be release in this RA																			
Item 1.2	Degridding Units @ 0.5%																		
f	Slabs / Walkway and Railling Complete																		
Note - 100% Quantity Executed in RA 10th so hold amount to be release in this RA																			
Item 1.3	SBR Basin @ 14.5%																		
f	Slabs / Walkway and Railling Complete																		
Note - 100% Quantity Executed in RA 10th so hold amount to be release in this RA																			
Item 1.5	Gravity Sludge Thickner and Thickned Sludge Sump @ 0.75%																		
f	Slabs / Walkway and Railling Complete																		
Note - 100% Quantity Executed in RA 10th so hold amount to be release in this RA																			
Item 1.6	Sewage Network in STP Premises																		
a	Sewage Network in STP Premises complete																		
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (Rmt)													
	Excavtion, Supply, Laying & Jointing of RCC pipes of 900mm Dia, Transportation of earth, Refilling etc Complete (SBR to CCT)	1	2.5			2.50													
	Far Out Fall Sewer Excavtion, Supply, Laying & Jointing of RCC pipes of 1000mm Dia, Transportation of earth, Refilling etc Complete (CCT to Nalla)	6	2.5			15.00													
Quantity executed upto RA Bill 10		0.00		Quantity executed in RA Bill 11		17.50													
Total Quantity		35.00		Quantity executed upto date		17.50													
						Percentage work done upto date				50.00%									
Item 1.7	Hydraulic Test of Water Retaining Structure @4%																		
RESULTS OF HYDRAULIC WET TESTS AS PER IS:3370 & IS: 456 FOR 7 DAYS AT 24 HRS INTERVAL																			
Sr. No.	Unit	Size			Volume Allowed Vol.	Allowed Vol.	Water Level Readings							Total Loss in Height	Volume after 7 days	Volume Loss on 7th Day	Observation	Remark	
		Length	Breadth	Height			Less in 24 hrs	Less in 7 Days	21/11/2016	22/11/2016	23/11/2016	24/11/2016	25/11/2016						26/11/2016
		m	m	m	cum	cum	cum	m	m	m	m	m	m	m	m	m	cum	cum	
1	SBR4	32.100	32.000	4.995	5130.86	2.57	17.96	4.995	4.990	4.990	4.990	4.990	4.985	4.985	0.010	5120.59	10.27	Less observed within permissible limit	Tank structure is hydraulically OK
Sr. No.	Unit	Size			Volume Allowed Vol.	Allowed Vol.	Water Level Readings							Total Loss in Height	Volume after 7 days	Volume Loss on 7th Day	Observation	Remark	
		Length	Breadth	Height			Less in 24 hrs	Less in 7 Days	10/11/2016	11/11/2016	12/11/2016	13/11/2016	14/11/2016						15/11/2016
		m	m	m	cum	cum	cum	m	m	m	m	m	m	m	m	m	cum	cum	
2	Primary Unit	8.000	8.000	0.850	54.40	0.03	0.19	0.850	0.850	0.850	0.850	0.850	0.848	0.848	0.002	54.24	0.16	Less observed within permissible limit	Tank structure is hydraulically OK
Quantity executed upto RA Bill 10		0.00		Quantity executed in RA Bill 11		2.00													
Total Quantity		8.00		Quantity executed upto date		2.00													
						Percentage work done upto date				25.00%									



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AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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Book No. :-

Page No. :-

77

MB RALL 55 MLD STP

Page 2 of 6

A Civil Work						
2 Buildings Structure Work						
2.1 & 2.4 Administration Building @ 3% & Blower and MCC House @ 3.5% Total is 6.5%						
g Inside outside Plaster Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ²)
	External Plaster					
	C1 to C16	1	13.460		11.230	151.16
	C16 to C22	1	13.460		11.230	151.16
	C1 to C6	1	20.370		11.230	228.76
	C16 to C22	1	20.370		11.230	228.76
	Internal Plaster					
	G1					
	BATH ROOM	8	1.200		3.000	30.72
	WC ROOM	4	1.200		3.000	15.36
	WC ROOM	4	0.900		3.000	11.52
	L TOILET ROOM	2	2.725		3.000	17.44
	L TOILET ROOM	2	2.215		3.000	14.18
	L TOILET ROOM	2	1.825		3.000	11.68
	G TOILET ROOM	2	2.725		3.000	17.44
	G TOILET ROOM	2	2.215		3.000	14.18
	RECORD ROOM	2	4.040		5.580	45.09
	RECORD ROOM	2	3.455		5.580	38.56
	WORK SHOP & TOOL ROOM	2	5.770		5.580	64.39
	WORK SHOP & TOOL ROOM	2	4.540		5.580	50.67
	HALL ROOM	2	6.050		5.580	67.52
	HALL ROOM	2	4.540		5.580	50.67
	ENGINEER'S ROOM	2	5.000		5.580	55.80
	ENGINEER'S ROOM	2	6.270		5.580	69.97
	BLOWER ROOM	2	13.910		5.580	155.24
	BLOWER ROOM	2	6.500		5.580	72.54
	PASSAGE AREA	2	10.410		5.580	116.18
	PASSAGE AREA	2	19.030		5.580	212.37
	AVHABE TOILET SLAB	2	4.040		2.000	16.16
	AVHABE TOILET SLAB	2	4.545		2.000	18.18
	F.F					
	BATH ROOM	8	1.200		3.000	28.80
	WC ROOM	4	1.200		3.000	14.40
	WC ROOM	4	0.900		3.000	10.80
	L TOILET ROOM	2	2.725		3.000	16.35
	L TOILET ROOM	2	2.215		3.000	13.29
	L TOILET ROOM	2	1.825		3.000	10.95
	G TOILET ROOM	2	2.725		3.000	16.35
	G TOILET ROOM	2	2.215		3.000	13.29
	TOILET ROOM	2	2.100		3.000	12.60
	TOILET ROOM	2	1.500		3.000	9.00
	OFFICE ROOM	2	4.040		4.360	35.23
	OFFICE ROOM	2	3.455		4.360	30.13
	ENGINEER'S ROOM	2	5.770		4.360	50.31
	ENGINEER'S ROOM	2	4.540		4.360	39.59
	CONFERENCE ROOM	2	6.050		4.360	52.76
	CONFERENCE ROOM	2	4.540		4.360	39.59
	LABORATORY ROOM	2	5.000		4.360	43.60
	LABORATORY ROOM	2	6.270		4.360	54.67
	COMPUTER/PLC/SCADA ROOM	2	13.910		4.360	121.30
	COMPUTER/PLC/SCADA ROOM	2	6.500		4.360	56.68
	PASSAGE AREA	2	10.410		4.360	90.78
	PASSAGE AREA	2	19.030		4.360	165.94
	AVHABE TOILET SLAB	2	4.040		1.370	11.07
	AVHABE TOILET SLAB	2	4.545		1.370	12.45
	PARAPET WALL	2	20.370		1.000	40.74
	PARAPET WALL	2	13.160		1.000	26.32
	C15 to C16	2	3.000		2.950	17.70
	C16 to C21	2	5.000		2.950	29.50
	C15 to C20	2	5.000		2.950	29.50
	C20 to C21	1	3.000		2.950	8.85
	Deductions					
	RS	2	2.500		3.500	-17.50
	D1	4	1.200		2.400	-11.52
	D2	10	1.000		2.400	-24.00
	D3	2	2.000		2.400	-9.60
	D4	9	0.750		2.100	-14.18
	D5	2	1.000		2.400	-4.80
	W	18	1.800		1.500	-48.60
	V	25	1.800		0.600	-27.00
	Y1	1	1.800		0.600	-1.08
	Y2	4	3.600		0.700	-10.08
	L	9	0.750		0.750	-5.06
	E	9	0.785		0.063	-0.44
	E1	8	0.785		0.202	-1.27
	GD	2	2.600		2.400	-12.48
	GP1	3	6.410		3.100	-59.61
	GP2	1	5.470		3.100	-16.96
	GP3	1	6.660		3.100	-20.65
	GP4	1	6.060		3.100	-18.79
	GP5	1	3.000		1.500	-4.50
	GP6	1	1.800		10.700	-19.26
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			2700.83
Total Quantity		2700.83	Quantity executed upto date			2700.83
			Percentage work done upto date			100.00%

Note: 100% Quantity has been record in RA 10 but quantity Release 62.5% so requested to balance quantity to be release in this bill



8.2.17



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Book No. :- 80
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

MB RALL 35 MLD STP

Page 3 of 6

2.2 Chlorination Building @ 1.5%						
i Water supply, sanitation, plumbing etc Complete with Fixtures.						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Lumsum Completed	This item is Not concen with this building so requested to release quantity and it's amount.				100.00%
	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%
2.3 Centrifuse feed pump house and Centrifuse Building @ 1.5%						
i Water supply, sanitation, plumbing etc Complete with Fixtures.						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Lumsum Completed	This item is Not concen with this building so requested to release quantity and it's amount.				100.00%
	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%
2.5 H.T. Substation Civil work @ 1%						
f Bricks Work Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	C1 to C3	1	10.540	0.230	5.500	13.33
	C1 to C10	1	10.690	0.230	5.500	13.52
	C10 to C15	1	21.450	0.230	5.500	27.13
	C15 to C9	1	5.460	0.230	5.500	6.91
	C4 to C6	1	21.450	0.230	5.500	27.13
	C3 to C5	1	5.000	0.230	5.500	6.33
	Deduction	1	5.000	0.230	5.500	6.33
	R5	-3	3.000	0.230	3.000	-6.21
	D1	-3	1.000	0.230	2.400	-1.66
	W	-9	1.800	0.230	1.500	-5.59
	V	-14	1.800	0.230	0.600	-3.48
	Quantity executed upto RA Bill 10	0.00	Quantity executed in RA Bill 11			83.75
	Total Quantity	83.75	Quantity executed upto date			83.75
						Percentage work done upto date
						100.00%
g Inside Outside Plaster Complete						
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Extrnal Plaster					
	C1 to C3	1	10.540		5.400	56.92
	C1 to C10	1	10.690		5.400	57.73
	C10 to C15	1	21.910		5.400	118.31
	C15 to C9	1	5.460		5.400	29.48
	C9 to C6	1	11.370		5.400	61.40
	C3 to C5	1	5.000		5.400	27.00
	Internall Plaster					
	C1 to C7	1	5.000		4.900	24.50
	C4 to C5	1	5.000		4.900	24.50
	C3 to C5	1	5.000		4.900	24.50
	C2 to C5	1	5.000		4.900	24.50
	C3 to C6	1	5.000		4.900	24.50
	C2 to C3	1	5.000		4.900	24.50
	C5 to C6	1	4.850		4.900	23.77
	C10 to C15	1	21.450		4.900	23.77
	C4 to C9	1	21.450		4.900	105.11
	C4 to C10	1	5.000		4.900	105.11
	C9 to C15	1	5.000		4.900	24.50
	Deduction					24.50
	R5	-3	3.000		3.000	-27.00
	D1	-3	1.000		2.400	-7.20
	W	-9	1.800		1.500	-24.30
	V	-14	1.800		0.600	-15.12
	Quantity executed upto RA Bill 10	0.00	Quantity executed in RA Bill 11			730.96
	Total Quantity	730.96	Quantity executed upto date			730.96
						Percentage work done upto date
						100.00%



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Book No. :-
Page No. :-

81

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

Date
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Page 4 of 6

2.6 Roads @ 1%							
a Excavation and dressing Complete							
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)	
	Excavation for subgrade preparation	1	655	7	0.7	3209.5	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			3209.50	
Total Quantity		3209.50	Quantity executed upto date			3209.50	
			Percentage work done upto date			100.00%	
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)	
	300mm Thk soiling	1	655	6	0.3	1179.00	
Quantity executed upto RA Bill 07		0.00	Quantity executed in RA Bill 08			1179.00	
Total Quantity		1179.00	Quantity executed upto date			1179.00	
			Percentage work done upto date			100.00%	
B Mechanical Work @ 38%							
1 Screens @ 1.5%							
a Gates @ 0.75%							
1.1 On Erection/Installation Complete @ 15%							
Date of Measurement	Particulars of work	DC No	Dated	Supplied By	Make	Quantity	Remark
	CI Open Channel Gate					4	
	OG-R/1100X1400-C1-SWE-E2-SFC Location:-Bypass Channel					1	
	OG-R/1000X1100-C1-SWE-M2-SFC Location:- Manual fine screen channel Inlet					1	
	OG-R/1000X1100-C1-SWE-M2-SFC Location:-Manual fine screen channel Outlet					2	
	OG-R/1000X1100-C1-SWE-M2-SFC Location:-Mechanical fine screen channel Inlet					2	
	OG-R/1000X1100-C1-SWE-M2-SFC Location:-Mechanical fine screen channel outlet					2	
	OG-R/1000X1100-C1-SWE-M2-SFC Location:- Grit channel					1	
	OG-R/1000X1100-C1-SWE-M2-SFC Location:-Bypass Channel					13.00	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			13.00	
Total Quantity		13.00	Quantity executed upto date			13.00	
			Percentage work done upto date			100.00%	
b Fine Screen @ 0.75%							
1.1 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
	ZA-1140-850-6-M1-S1 Screenmat Fine Bar Screen Channel Channel Width:1100mm, Channel Depth:1300mm, SWD:750mm, Bar Spacing:6mm, Angle of Inclination:40 deg MOC: SS304	SI-00293	19.10.2016	Jash Engineering Limited	Jash Engineering Limited	2	SGS : No. R 142066
	Manual Fine Bar Screen-MS-1900-1088-10-M1-S1	SI-00294	19.10.2016	Jash Engineering Limited	Jash Engineering Limited	1	SGS : No. R 142066
	Rake Assy. -1000mm Long for MS-1900-1088-10-M1-S1	SI-00294	19.10.2016	Jash Engineering Limited	Jash Engineering Limited	1	SGS : No. R 142066
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			3.00	
Total Quantity		3.00	Quantity executed upto date			3.00	
			Percentage work done upto date			100.00%	



8.2.17
(Civil work)



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Book No. :- 82
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

MB RA11 35 MLD STP

Page 5 of 6

Date
Meas
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1.2 On Erection / Installation Complete @ 18%							
Date of Measurement	Particulars of work	DC No	Dated	Supplied By	Make	Quantity	Remark
	ZA-1140-850-6-M1-S1 Screenmat Fine Bar Screen Channel Channel Width:1100mm, Channel Depth:1300mm, SWD:750mm, Bar Spacing:6mm, Angle of Inclination:40 deg MOC: S5304					2 ✓	
	Manual Fine Bar Screen-MS-1900-1088-10-M1-S1					1 ✓	
	Rake Assy. -1000mm Long for MS-1900-1088-10-M1-S1					1 ✓	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11		3.00		
Total Quantity		3.00	Lot	Quantity executed upto date		3.00	
						Percentage work done upto date	
						100.00%	
2 Detritus Mechanisms @1.5%							
2.1 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
	Detritor Mechanism (8.0 M sq. x 0.9 M SWD x 0.5 M FB)	058	31.12.2016	Shivpad Engineer s Pvt. Ltd.	Batilbol	1 ✓	SGS : No. R 141841
	Detritor Mechanism (8.0 M sq. x 0.9 M SWD x 0.5 M FB)	059	31.12.2016	Shivpad Engineer s Pvt. Ltd.	Batilbol	1 ✓	SGS : No. R 141841
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11		2.00 ✓		
Total Quantity		2.00	Lot	Quantity executed upto date		2.00 ✓	
						Percentage work done upto date	
						100.00%	
5 Treated Water Draw off Units (Decanters)							
5.2 On Erection/Installation Complete @ 15%							
Date of Measurement	Particulars of work	DC No	Dated	Supplied By	Make	Quantity	Remark
	On Supply of Treated Water Draw off Units (Decanters) Sr.No.150104-A(Z1), 150104-B(Z2), 150104-C(Z3), 150104-D(Z4).					4 Sets	
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11		4.00 ✓		
Total Quantity		4.00	Lot	Quantity executed upto date		4.00 ✓	
						Percentage work done upto date	
						100.00%	
8 Centrifuge Seed Pumps & Centrifuges, Sludge Thickener @ 2%							
c Sludge Thickener @ 1%							
1.1 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
	Sludge Thickener (13.5 M dia x 3.0 M SWD + 0.5 M FB)	058	31.12.2016	Shivpad Engineer s Pvt. Ltd.	Batilbol	1 ✓	SGS : No. R 141841
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11		1.00 ✓		
Total Quantity		1.00	Lot	Quantity executed upto date		1.00 ✓	
						Percentage work done upto date	
						100.00%	





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Measurement Book

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Book No. :-

83

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

MB RA11 35 MLD STP

Page 6 of 6

3 Interconnecting Air Piping									
9.1 On Supply of Material on site duly tested and inspected @ 75%									
Date of Measurement	Particulars of work						Total Wt in MT		Supplied Quantity In RMT
	Sr.	Pipe ASL No.	Spec/Grade	WT	OD	Length (mtr)	Delivery Detail	Wt (MT)	Cummulative Qty (mtr)
	1	65 NB	SS304			200.000	D.C. No 24 Dated 21.05.2016	1.05	
	2	50 NB	SS304			160.000		0.63	
	3	250 NB	SS304			48.000	D.C. No 65 Dated 17.08.2016	2.00	
	4	250 NB	MS			6.000		0.25	
	5	400 NB	MS			18.000		1.13	
Total Received Quantity (Rmt)						432.000		5.063	
Quantity executed upto RA Bill 10		15.77	Quantity executed in RA Bill 11			5.06			
Total Quantity		20.83 MT	Quantity executed upto date			20.83		MT	
Percentage work done upto date						100.00%			
9.2 On Erection / Installation Complete @ 15%									
Date of Measurement	Particulars of work				Totals (RMT)				
	No.	L (m)	B (m)	H (m)					
	450 mm Dia.								
	Header Pipe	10	10.00		100.00				
	Underground Line from Blower header to SBR	1	10.00		10.00				
	250NB SS Downtake Pipe	1	48.00		48.00				
	250NB MS Downtake Pipe	1	6.00		6.00				
Quantity executed upto RA Bill 10		358.00	Quantity executed in RA Bill 11			164.00			
Total Quantity		744.00	Quantity executed upto date			522.00			
Percentage work done upto date						70.16%			
C Electrical Work @ 10%									
4 Cabling (Plant and Building) @ 2%									
a Cable Tray @ 0.4%									
a.2 On Erection / Installation Complete @ 15%									
Date of Measurement	Particulars of work				Totals				
	No.	L (m)	B (m)	H (m)					
	On Erection of Cable Tray (GI Cable Tray and Cable Tray Supports)				L.S.				
Quantity executed upto RA Bill 10		0.00	Quantity executed in RA Bill 11			100.00%			
Total Quantity		L.S.	Quantity executed upto date			100.00%			
Percentage work done upto date						100.00%			





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.

Book No. :-

84

Page No. :-

Page 1 of 8

PART A - ABSTRACT OF COST

Name of Work :-Development of Underground Sewerage Collection system for Zone I to VI & Zone Salim Ali, Construction of sewage Treatment Plants, Construction of sewage pumping stations, Providing Rising Main GRP/DI pipe lines for Aurangabad City under UIDSSMT.

Date of Commencement - 01-07-2014

Stipulated Date of Completion - 01-07-2017

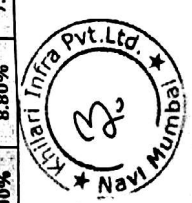
A & F Sanction No. & Date :

Serial No. of this Bill -11 R.A. Bill Dt. :30.11.2016
Name of Contractor - M/s. Khilari Infrastructure Pvt Ltd.
Contract No., & Date - /AMC/WARD(B&C)/UIDSSMT/2014/184 Dt. 01.07.2014

35 MLD STP Zalta

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Rate		Payment on the basis of actual measurements (Amount)		
							Full Rate	Part rate	Upto date Amount	Amount Upto last bill	
1	2	3	4	4	PART-A for STP (Turnkey Work)	6	8	9	10	11	12
					Name of Work: - Designing, Constructing, Erecting and Commissioning of Sewage Treatment Plant based on Commissioning of Sewage Treatment Plant based on Item No. 1 :- Designing (aesthetically), providing, constructing and giving satisfactory trials of modernised Sewage Treatment Plant consisting of receiving chamber, screen chamber, grit chamber, measuring flume, distribution chamber with primary and secondary treatment, etc.as detailed below.						
					Cyclic Activated Sludge Process						
					Moving Media Bio Reactor (MMBR) / FAB (Fluidised Supplying & erecting approved make of oil immersed and naturally cooled indoor /outdoor type , copper wound transformer with delta conn. on HV side & star conn. on LV side with additional neutral brought out in load side , voltage rating 11/0.433 vV with tapping of +/- 2.5 % -5 % continuously rated for full load with standered						
				d	STP at Zalta 35 MLD.		302157742				
				1	PRELIMINARY WORK @ 9.0 %		27194197				
4.00%	4.000%	4.000%	0.000%	1	Submission of process design.		12086310	6906463	12086310	12086310	0
2.00%	2.000%	2.000%	0.000%	2	Approval of process design. (engineer \$ appd.)		6043155	3453231	6043155	6043155	0
2.50%	2.500%	2.500%	0.000%	3	Submission of RCC, Mechanical, electrical & Instrumentation design		7553944		7553944	7553944	0
0.50%	0.300%	0.300%	0.000%	4	Approval of RCC, Mechanical, electrical & Instrumentation design		1510789		906473	906473	0
9.00%	8.80%	7.03%	0.00%	Total			27194197		26589882	26589882	0

8.2.11





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

Book No. :- 85
Page No. :-

Page 2 of 8

35 Abad RA 11

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Unit	Rate		Part rate	Payment on the basis of actual measurements (Amount)		
								Full Rate	8		9	Upto date Amount	Amount Upto last bill
1	2	3	4	4	CONSTRUCTION WORK PAYMENT SCHEDULE	6	7				10	11	12
				II	Civil Works - Total 35%			105755210					
				1	Water Retaining Structure								
				1.1	Inlet chamber, fine Screen Chamber @ 0.5%			1510789					
7.50%	7.500%	7.500%	0.000%	a	Excavation and dressing Complete			113309			113309	113309	0
10.00%	10.000%	10.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			151079			151079	151079	0
30.00%	30.000%	30.000%	0.000%	c	RCC Raft			453237			453237	453237	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			302158			302158	302158	0
20.00%	20.000%	20.000%	0.000%	e	Walls Full Height Complete			302158			302158	302158	0
5.00%	2.500%	2.500%	0.000%	f	Platforms / Walkway and Railing Complete			75539			37770	37770	0
100.00%	90.00%	90.00%	0.00%		Total			1510789			1359711	1359711	0
				1.2	Degrifting Units @ 0.5%			1510789					
7.50%	7.500%	7.500%	0.000%	a	Excavation and dressing Complete			113309			113309	113309	0
10.00%	10.000%	10.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			151079			151079	151079	0
30.00%	30.000%	30.000%	0.000%	c	RCC Raft			453237			453237	453237	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			302158			302158	302158	0
20.00%	20.000%	20.000%	0.000%	e	Walls Full Height Complete			302158			302158	302158	0
5.00%	2.500%	2.500%	0.000%	f	Platforms / Walkway and Railing Complete			75539			37770	37770	0
100.00%	90.00%	87.50%	2.50%		Total			1510789			1359711	1321941	37770
				1.3	SBR Basin 14.5%			43812873					
7.50%	7.500%	7.500%	0.000%	a	Excavation and dressing Complete			3285965			3285965	3285965	0
10.00%	10.000%	10.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			4381287			4381287	4381287	0
30.00%	30.000%	30.000%	0.000%	c	RCC Raft			13143862			13143862	13143862	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			8762575			8762575	8762575	0
20.00%	20.000%	20.000%	0.000%	e	Walls Full Height Complete			8762575			8762575	8762575	0
5.00%	4.057%	4.057%	0.000%	f	Platforms / Walkway and Railing Complete			2190644			1777269	1777269	0
100.00%	91.56%	91.56%	0.00%		Total			43812873			40113533	40113533	0

8.2.17



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.

Book No. :- **86**
Page No. :-

Page 3 of 8

35 Abad RA 11

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Unit	Rate		Payment on the basis of actual measurements (Amount)		
								Full Rate	Part rate	Upto date Amount	Amount Upto last bill	Since Previous
1	2	3	4	4	5	6	7	8	9	10	11	12
7.50%	7.500%	7.500%	0.000%	1.4	Chlorine Contact Tank 1%			3021577				
10.00%	10.000%	10.000%	0.000%	a	Excavation and dressing Complete			226618		226618	226618	0
30.00%	30.000%	30.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			302158		302158	302158	0
20.00%	20.000%	20.000%	0.000%	c	RCC Raft			906473		906473	906473	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			604315		604315	604315	0
20.00%	20.000%	20.000%	0.000%	e	Walls Full Height Complete			604315		604315	604315	0
5.00%	5.000%	5.000%	0.000%	f	Platforms / Walkway and Railling Complete			151079		151079	151079	0
100.00%	92.50%	92.50%	0.00%		Total			3021577		2794958	2794958	0
7.50%	7.500%	7.500%	0.000%	1.5	Gravity Sludge Thickner and Thickned Sludge Sump @ 0.75%			2266183				0
10%	10.000%	10.000%	0.000%	a	Excavation and dressing Complete			169964		169964	169964	0
30%	30.000%	30.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			226618		226618	226618	0
20.00%	20.000%	20.000%	0.000%	c	RCC Raft			679855		679855	679855	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			453237		453237	453237	0
5.00%	2.500%	2.500%	0.000%	e	Walls Full Height Complete			453237		453237	453237	0
100.00%	90.000%	90.000%	0.000%	f	Platforms / Walkway and Railling Complete			113309		56655	56655	0
					Total			2266183		2039566	2039566	0
100.00%	50.000%	0.000%	50.000%	1.6	Sewerage Network in the STP Premises @ 0.25%			755394				0
100.00%	50.000%	0.000%	50.000%	a	Excavation and dressing Complete			755394		377697	377697	0
					Total			755394		377697	377697	0
100.00%	25.000%	0.000%	25.000%	1.7	Hydraulic Test of Water Retaining Structure @ 4%			12086310				0
100.00%	25.000%	0.000%	25.000%	a	Hydraulic Test of Water Retaining Structure			12086310		3021577	3021577	0
					Total			12086310		3021577	3021577	0



Up to date

10.



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

Book No. :-

Page No. :-

87

Page 4 of 8

35 Abad RA 11

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Unit	Rate		Payment on the basis of actual measurements (Amount)		
								Full Rate	Part rate	Upto date Amount	Amount Upto last bill	Since Previous
1	2	3	4	4	5	6	7	8	9	10	11	12
				2	Buildings Structure Work @ 13.50%			19640253				
				2.1	Administration Building @ 3% & Blower and MCC House @ 3.5% Total is 6.5%							
5.00%	5.000%	5.000%	0.000%	a	Excavation and dressing Complete			982013		982013	982013	0
7.00%	7.000%	7.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			1374818		1374818	1374818	0
20.00%	20.000%	20.000%	0.000%	c	RCC Raft / Footing, Piling and Column upto Plinth Level			3928051		3928051	3928051	0
15.00%	15.000%	15.000%	0.000%	d	RCC Super Structure upto Lintel Level			2946038		2946038	2946038	0
15.00%	15.000%	15.000%	0.000%	e	RCC Super Structure from Lintel Level to roof slab			2946038		2946038	2946038	0
10.00%	10.000%	10.000%	0.000%	f	Brick work Complete			1964025		1964025	1964025	0
8.00%	8.000%	8.000%	0.000%	g	Inside outside Plaster Complete			1571220		1571220	1571220	589207
100.00%	80.000%	77.000%	3.000%		Total			19640253	0	15712203	15122996	589207
				2.2	Chlorination Building @ 1.5%			4532366				
5.00%	5.000%	5.000%	0.000%	a	Excavation and dressing Complete			226618		226618	226618	0
7.00%	7.000%	7.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			317266		317266	317266	0
20.00%	20.000%	20.000%	0.000%	c	RCC Raft / Footing, Piling and Column upto Plinth Level			906473		906473	906473	0
15.00%	15.000%	15.000%	0.000%	d	RCC Super Structure upto Lintel Level			679855		679855	679855	0
15.00%	15.000%	15.000%	0.000%	e	RCC Super Structure from Lintel Level to roof slab			679855		679855	679855	0
10.00%	10.000%	10.000%	0.000%	f	Brick work Complete			453237		453237	453237	0
8.00%	8.000%	8.000%	0.000%	g	Inside outside Plaster Complete			362589		362589	362589	0
5.00%	0.000%	0.000%	0.000%	h	Doors, Windows, Ventilator and Flooring Complete			226618		0	0	0
5.00%	4.000%	0.000%	4.000%	i	Water supply, sanitation, plumbing etc Complete with Fixtures.			226618		181295	0	181295
100.00%	84.000%	80.000%	4.000%		Total			4532366	0	3807188	3625893	181295



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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 Sabir Via constructing, Erecting, Testing and Commissioning of Sewage Treatment Plant based on australian technology at Nakshtrawadi (Kanchanwadi), Ranewadi, Siddharth Garden, Zalta, Padegaon (A.D.C.) (Airport), Construction, Erection, Testing and Commission of Sewage pumping stations at Banewadi, Siddharth Garden, Padegaon, Golwadi, Zalta, Ward No.98 and A.D.C. (A.P.S.) Providing, lowering, laying, jointing and testing rising main (RPM) pipe line from Golwadi SPS to Nakshtrawadi (Kanchanwadi) S.P. and Ward No.98 to S.P. for Aurangabad City.

Book No. :-
Page No. :-

88

Page 5 of 8

35 Abad RA 11

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Rate		Payment on the basis of actual measurements (Amount)			
							Full Rate	Part rate	Upto date Amount	Amount Up to last bill	Since Previous	
1	2	3	4	4	5	6	7	8	9	10	11	12
				2.3	Centrifuge feed pump house and Centrifuge Building @ 1.5%			4532366				
5.00%	5.00%	5.00%	0.00%	a	Excavation and dressing Complete			226618		226618	226618	0
7.00%	7.00%	7.00%	0.00%	b	PCC M15 for Bed Concrete / Levelling Course Complete			317266		317266	317266	0
20.00%	20.00%	20.00%	0.00%	c	RCC Raft / Footing, Piling and Column upto Plinth Level			906473		906473	906473	0
15.00%	15.00%	15.00%	0.00%	d	RCC Super Structure upto Lintel Level			679855		679855	679855	0
15.00%	15.00%	15.00%	0.00%	e	RCC Super Structure from Lintel Level to roof slab			679855		679855	679855	0
10.00%	10.00%	10.00%	0.00%	f	Brick work Complete			453237		453237	453237	0
8.00%	8.00%	8.00%	0.00%	g	Inside outside Plaster Complete			362589		362589	362589	0
5.00%	5.00%	5.00%	0.00%	h	Doors, Windows, Ventilator and Flooring Complete			226618		0	0	0
5.00%	5.00%	5.00%	5.00%	i	Water supply, sanitation, plumbing etc. Complete with Fixtures			226618		226618	0	226618
100.00%	85.00%	80.00%	5.00%		Total			4532366	0	3852511	3625893	226618
				5	H.T. Substation Civil work @ 1%			3021577				
5.00%	5.00%	5.00%	0.00%	a	Excavation and dressing Complete			151079		151079	151079	0
7.00%	7.00%	7.00%	0.00%	b	PCC M15 for Bed Concrete / Levelling Course Complete			211510		211510	211510	0
20.00%	20.00%	20.00%	0.00%	c	RCC Raft / Footing, Piling and Column upto Plinth Level Complete			604315		604315	604315	0
15.00%	15.00%	15.00%	0.00%	d	RCC Super Structure upto Lintel Level			453237		453237	453237	0
15.00%	15.00%	15.00%	0.00%	e	RCC Super Structure from Lintel Level to roof slab Complete			453237		453237	453237	0
10.00%	10.00%	0	10.00%	f	Brick work Complete			302158		302158	0	302158
8.00%	8.00%	0	8.00%	g	Inside outside Plaster Complete			241726		241726	0	241726
5.00%	5.00%	0	3.00%	h	Doors, Windows, Ventilator and Flooring Complete			151079		151079	0	90647
5.00%	5.00%	0	3.00%	i	Water supply, sanitation, plumbing etc. Complete with Fixtures			151079		90647	0	90647
100.00%	83.00%	62.00%	21.00%		Total			3021577	0	2507909	1873378	634531
				2.6	Roads @ 1%			3021577				
5.00%	5.00%	0.00%	5.00%	a	Excavation and dressing Complete			151079		151079	0	151079
7.00%	5.00%	0.00%	5.00%	b	PCC M15 for Bed Concrete / Levelling Course Complete			211510		151079	0	151079
100.00%	10.00%	0.00%	10.00%		Total			3021577		302158	0	302158
					A-Total for Civil Work					10388604	98467751	5370853

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

Book No. :-

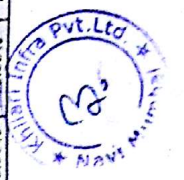
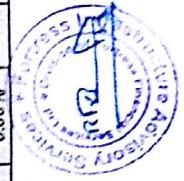
Page No. :-

89

Page 6 of 8

35 Abad RA 11

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Unit	Rate		Payment on the basis of actual measurements (Amount)		
								Full Rate	Part rate	Upto date Amount	Amount Upto last bill	Since Previous
1	2	3	4	4	5	6	7	8	9	10	11	12
				B	Mechanical Works - Total 36%			108776787				
				1	Fine Screen @ 1.5%			4532366				
				a	Gates @ 0.75%			2266183				
75.00%	75.00%	75.00%	0.00%	1.1	On Supply of Material on site duly tested and inspected @ 75%			1699637		1699637	1699637	0
15.00%	15.00%	0.00%	15.00%	1.2	On Erection / Installation Complete @ 15%			339927		339927	0	339927
100.00%	90.00%	75.00%	15.00%					2266183	0	2039564	1699637	339927
				b	Fine Screen @ 0.75%			2266183				
75.00%	75.00%	0.00%	75.00%	1.1	On Supply of Material on site duly tested and inspected @ 75%			1699637		1699637	0	1699637
15.00%	12.00%	0.00%	12.00%	1.2	On Erection / Installation Complete @ 15%			339927		271942	0	271942
100.00%	87.00%	0.00%	87.00%					2266183	0	1971579	0	1971579
				2	Detritus Mechanisms @ 1.5%			4532366				
75.00%	75.00%	0.00%	75.00%	2.1	On Supply of Material on site duly tested and inspected @ 75%			3399275		3399275	0	3399275
100.00%	75.00%	0.00%	75.00%					4532366	0	3399275	0	3399275
				3	Aeration Assembly (Including Diffusers and Air Grid), Coarse bubble diffusers in selector Zone @ 3%			9064732				
75.00%	75.00%	75.00%	0.00%	3.1	On Supply of Material on site duly tested and inspected @ 75%			6798549		6798549	6798549	0
100.00%	75.00%	75.00%	0.00%					9064732	0	6798549	6798549	0
				4	Air Blowers for SBR Basin (Turbo) @ 2%			6043155				
75.00%	75.00%	75.00%	0.00%	4.1	On Supply of Material on site duly tested and inspected @ 75%			4532366		4532366	4532366	0
100.00%	75.00%	75.00%	0.00%					6043155	0	4532366	4532366	0
				5	Treated Water Draw off Units (Decanters) @ 6%			18129465				
75.00%	75.00%	75.00%	0.00%	5.1	On Supply of Material on site duly tested and inspected @ 75%			13597098		13597098	13597098	0
15.00%	12.00%	0.00%	12.00%	5.2	On Erection / Installation Complete @ 15%			2719420		2175556	0	2175556
100.00%	87.00%	75.00%	12.00%					18129465	0	15722634	13597098	2175556
				6	Returned Activated and Surplus Sludge Pumps @ 2%			6043155				
75.00%	75.00%	75.00%	0.00%	6.1	On Supply of Material on site duly tested and inspected @ 75%			4532366		4532366	4532366	0
100.00%	75.00%	75.00%	0.00%					6043155	0	4532366	4532366	0





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

Book No. :-

93

Page No. :-

Page 7 of 8

35 Abad RA 11

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Unit	Rate		Payment on the basis of actual measurements (Amount)		
								Full Rate	Part rate	Upto date Amount	Amount Upto last bill	Since Previous
1	2	3	4	4	5	6	7	8	9	10	11	12
75.00%	75.00%	75.00%	0.00%	7.1	Chlorination system (Chlorinators) @ 2% On Supply of Material on site duly tested and Inspected @ 75%			6043155				
100.00%	75.00%	75.00%	0.00%		Total			4532366		4532366	4532366	0
75.00%	75.00%	0.00%	75.00%	B	Centrifuge Seed Pumps & Centrifuges, Sludge Thickener @ 2%			6043155				0
100.00%	75.00%	0.00%	75.00%	c	Sludge Thickener @ 1%			3021577				
				B.1	On Supply of Material on site duly tested and Inspected @ 75%			2266103		2266103	0	2266103
75.00%	59.76%	59.76%	0.00%	9	Interconnecting Air Piping @ 13%			3021577		2266103	0	2266103
15.00%	10.52%	7.22%	3.31%	9.1	On Supply of Material on site duly tested and Inspected @ 75%			39280506				
100.00%	70.28%	66.90%	3.31%	9.2	On Erection / Installation Complete @ 15%			29460300		23474031	23474031	0
					Total			5892076		4133000	2035267	1290613
					B-Total For Mechanical Work			39280506		27607911	26309298	1290613
				C	Electrical Works - Total 10%			30215774		73432793	62001600	11451113
				f	H.T.Substation @ 2%							
				a	Transformer @ 0.6%			6043155				
75.00%	75.00%	75.00%	0.00%	a.1	On Supply of Material on site duly tested and Inspected @ 75%			1012946				
100.00%	75.00%	75.00%	0.00%		Total			1359710		1359710	1359710	0
				b	D.G. Set @ 0.9%					1359710	1359710	0
75.00%	75.00%	75.00%	0.00%	b.1	On Supply of Material on site duly tested and Inspected @ 75%			2719420		1359710	1359710	0
100.00%	75.00%	75.00%	0.00%		Total			2039565		2039565	2039565	0
				c	H.T. Panel @ 0.3%			2719420		2039565	2039565	0
75.00%	75.00%	75.00%	0.00%	c.1	On Supply of Material on site duly tested and Inspected @ 75%			906473		2039565	2039565	0
100.00%	75.00%	75.00%	0.00%		Total			679055		679055	679055	0
					Total			906473		679055	679055	0





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.

Book No. :-

Page No. :- 91

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

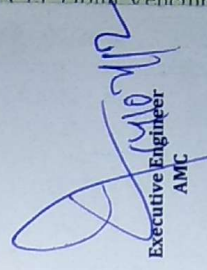
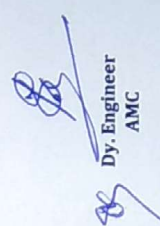
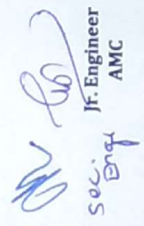



Author

Date of Measurement

Page 8 of 8

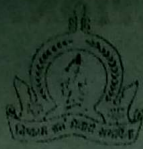
35 Abad RA 11

Quantity as per BOQ	Upto date quantity	Quantity Upto last bill	Quantity Since Previous	Item No.	Description of Item	MB page No.	Unit	Rate		Payment on the basis of actual measurements (Amount)		
								Full Rate	Part rate	Upto date Amount	Amount Upto last bill	Since Previous
1	2	3	4	4	5	6	7	8	9	10	11	12
				4	Cabling (Plant and Building) @ 2%			6043155				
				a	Cable Tray @ 0.4%			1208631				
75.00%	75.00%	75.00%	0.00%	a.1	On Supply of Material on site duly tested and inspected @ 75%			906473		906473	906473	0
15.00%	5.00%	0.00%	5.00%	a.2	On Erection / Installation Complete @ 15%			181295		60432	0	60432
100.00%	80.00%	75.00%	5.00%					1208631	0	966905	906473	60432
				6	PLC and PLC Panel @ 1%			3021577				
75.00%	65.00%	65.00%	0.00%	6.1	On Supply of Material on site duly tested and inspected @ 75%			2266183		1964025	1964025	0
100.00%	65.00%	65.00%	0.00%					3021577	0	1964025	1964025	0
					G-Total For Electrical Work					7010060	6949628	60432
					Total For Zalta STP (A+B+C)					184301457	167419059	16882398


 Project Engineer AMC

 Dy. Engineer AMC

 Jt. Engineer AMC

 Project Manager PMC

 Project Engineer PMC

 Authorized Signatory Contractor

Total up to Date

10



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

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.

Book No. :- 92
Page No. :-

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

MB RA13 35 MLD STP

Page 1 of 8

Measurements of Thirteen Running Account Bill		PART-A for STP (Turnkey Work)	
a	STP at Zalta 35 MLD	Approval Letter No.	
1	PRELIMINARY WORK PAYMENT SCHEDULE (AS per billing Breakup) @ 9.0 %		
Item 4	Submittal Description		
Date of Measurement			
Item No. 4 Approval of RCC, Mechanical & Electrical design of 35 MLD Zalta			
1	Approval of quality assurance plan and data sheet for Gates and Screen	FIAS/A'bad/388/2016 on Dated 29-Jun-2016	
2	Approval of RCC Design and Drawings for Transformer Yard, DGS Set and HT Substation for 35 MLD STP Zalta	FIAS/A'bad/334/2016 on Dated 05-May-2016	
3	Approval of RCC Design and Drawings for Gravity Sludge Thickener at 35 MLD STP Zalta	FIAS/A'bad/333/2016 on Dated 05-May-2016	
4	Approval of datasheet of Instrumentation at 161 MLD STP and 35 MLD STP.	FIAS/A'bad/295/2016 on Dated 12-Mar-2016	
5	Approval of Quality assurance plan of Decanter, Air Blower and Turbo blower.	FIAS/A'bad/283/2016 on Dated 15-Feb-2016	
6	Approval of data sheet, GAD & QAP of Twin lobe air blower of sludge sump for 161 and 35 MLD and C-Tech air Blower for 10 MLD at Padegaon.	FIAS/A'bad/606/2017 on Dated 03-Mar-2017	
Quantity executed upto RA Bill 12		60.00%	Quantity executed in RA Bill 13
Total Quantity		100.0%	Quantity executed upto date
			Percentage work done upto date
			20.00%
			80.00%
			80.0%
d	STP at Zalta 35 MLD		
II	CONSTRUCTION WORK PAYMENT SCHEDULE		
1	Civil Work		
	Water Retaining Structure		
	Inlet chamber, fine Screen Chamber @ 0.5%		
	Slabs / Walkway and Railling Complete		
	Note :- 100% Quantity Executed upto RA 12th so hold amount to be release in this RA		
Item 1.2	Degritting Units @ 0.5%		
f	Slabs / Walkway and Railling Complete		
	Note :- 100% Quantity Executed upto RA 12th so hold amount to be release in this RA		
Item 1.3	SBR Basin @ 14.5%		
f	Slabs / Walkway and Railling Complete		
	Note :- 100% Quantity Executed upto RA 12th so hold amount to be release in this RA		



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.

Book No. :-

Page No. :- 93

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

Item 1.5 Gravity Sludge Thickener and Thickened Sludge Sump @ 0.75%		Slabs / Walkway and Railing Complete		Note :- 100% Quantity Executed upto RA 12th so hold amount to be release. In this RA														
Item 1.7 Hydraulic Test of Water Retaining Structure @4%																		
RESULTS OF HYDRAULIC WET TESTS AS PER IS:3370 & IS: 456 FOR 7 DAYS AT 24 HRS INTERVAL																		
Sr. No.	Unit	Site		Volume	Allowed Vol.	Loss in 24 hrs	Water Level Readings							Total Loss in Height	Volume after 7 days	Volume Loss on 7th Day	Observation	Remark
		Length	Breadth				Height	18/04/2017	19/04/2017	20/04/2017	21/04/2017	22/04/2017	23/04/2017					
1	SBR1	32.100	32.000	5.000	2.57	5136.00	5.000	4.999	4.997	4.995	4.993	4.991	4.988	0.012	5133.67	12.33	Loss observed within permissible limit	Tank structure is hydraulic ally OK
2	SBR2	32.100	32.000	5.000	2.57	5136.00	5.000	4.998	4.997	4.995	4.994	4.992	4.990	0.010	5125.73	10.27	Loss observed within permissible limit	Tank structure is hydraulic ally OK
3	SBR3	32.100	32.000	5.000	2.57	5136.00	5.000	4.999	4.997	4.995	4.993	4.992	4.990	0.010	5125.73	10.27	Loss observed within permissible limit	Tank structure is hydraulic ally OK
	Dosing tank1	4.000	4.000	3.500	0.03	56.00	3.502	3.501	3.501	3.500	3.500	3.500	3.500	0.002	56.00	0.00	Loss observed within permissible limit	Tank structure is hydraulic ally OK

Done by V.K. [Signature]

For Khilari Infrastructure Pvt. Ltd. [Stamp]

For Aurangabad Municipal Corporation [Stamp]