



AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

Measurement Book

Name of works- 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 (CHXX) (Airport), Construction, Erection, Testing and Commission of Sewerage pumping stations at Banewadi, Siddharth Garden, Padegaon, Gohwadi, Zalta, Ward No.98 and CHXX (Airport) Providing, lowering, laying jointing and testing rising main GRP/DI pipe line from Gohwadi SPS to Nakshtrawadi (Kanchanwadi) STP and Ward No.98 to STP for Aurangabad City.

Book No. **037**

Page No. :-

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

Padegaon, Alwad RA 11

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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 :-												
Technical 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(D&C)/UIDSSMT/2014/184 Dt. 01.07.2014												
Quantity as per BOQ	Upto date quantity	Quantity upto last bill	Quantity Since Previous	Item No.	Description of Item	M/I 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	10 MLD STP at Padegaon	6	7	8	9	10	11	12
				5	PART-A for STP (Turnkey Work)							
					Name of Work: - Designing, Constructing, Erecting and 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 kv with tapping of +/- 2.5 % .5 % Zoning as per rated for bill load with standard.							
					STP at Padegaon 10 MLD.							
				6	PRELIMINARY WORK @ 9.0 %			852882.53				
4.00%	4.000%	4.000%	0.000%	1	Submission of process design.			7675942.77				
2.00%	2.000%	2.000%	0.000%	2	Approval of process design (engineer & appd.)			3411530		3411530		0
2.50%	2.000%	2.000%	0.000%	3	Submission of P.C.C., Mechanical, electrical & instrumentation design			1705765		1705765		0
0.50%	0.400%	0.400%	0.000%	4	Approval of P.C.C., Mechanical, electrical & instrumentation design			2132206		1705765		0
9.00%	8.400%	8.400%	0.000%		Total			426441		341153		0
								7675943		7164213		0

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

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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
				II	CONSTRUCTION WORK PAYMENT SCHEDULE							
				I	Civil Works - Total 35%							
				1	Water Retaining Structure			29850889				
				1.1	Inlet chamber, fine Screen Chamber @ 0.5%			426441				
7.50%	7.500%	7.500%	0.000%	a	Excavation and dressing Complete			31983		31983	31983	0
10.00%	10.000%	10.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			42644		42644	42644	0
30.00%	30.000%	30.000%	0.000%	c	RCC Raft			127932		127932	127932	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			85288		85288	85288	0
20.00%	20.000%	0.000%	20.000%	e	Walls Full Height Complete			85288		85288	0	85288
5.00%	3.000%	0.000%	3.000%	f	Platforms / Walkway and Railling Complete			21322		12793	0	12793
100.00%	90.50%	67.50%	23.00%		Total			426441		385928	287847	98081
				1.2	Degritting Units @ 0.5%			426441				
7.50%	7.500%	7.500%	0.000%	a	Excavation and dressing Complete			31983		31983	31983	0
10.00%	10.000%	10.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			42644		42644	42644	0
30.00%	30.000%	30.000%	0.000%	c	RCC Raft			127932		127932	127932	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			85288		85288	85288	0
20.00%	20.000%	0.000%	20.000%	e	Walls Full Height Complete			85288		85288	0	85288
5.00%	3.000%	0.000%	3.000%	f	Platforms / Walkway and Railling Complete			21322		12793	0	12793
100.00%	90.50%	67.50%	23.00%		Total			426441		385928	287847	98081
				1.3	SBR Basin 14.5%			12366797				
7.50%	7.500%	7.500%	0.000%	a	Excavation and dressing Complete			927510		927510	927510	0
10.00%	10.000%	10.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			1236680		1236680	1236680	0
30.00%	30.000%	30.000%	0.000%	c	RCC Raft			3710039		3710039	3710039	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			2473359		2473359	2473359	0
20.00%	20.000%	20.000%	0.000%	e	Walls Full Height Complete			2473359		2473359	2473359	0
5.00%	4.000%	2.510%	1.490%	f	Platforms / Walkway and Railling Complete			618340		494672	310407	184265
100.00%	91.50%	90.01%	1.49%		Total			12366797		11315619	11131354	184265

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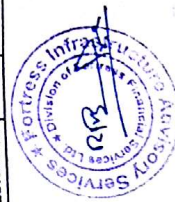
Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Vencturè)

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Padegaon 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%			852883		63966	63966	0
10.00%	10.000%	10.000%	0.000%	a	Excavation and dressing Complete			63966		85288	85288	0
30.00%	30.000%	30.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			255865		255865	255865	0
20.00%	20.000%	20.000%	0.000%	c	RCC Raft			170577		170577	170577	0
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			170577		162048	162048	0
5.00%	5.000%	5.000%	0.000%	e	Walls Full Height Complete			42644		42644	42644	0
100.00%	91.50%	91.50%	0.00%	f	Platforms / Walkway and Railling Complete			852883		780388	780388	0
				1.5	Total			639662				47375
7.50%	7.500%	7.500%	0.000%	a	Excavation and dressing Complete			47975		47975	47975	47375
10%	10.000%	10.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			63966		63966	63966	63966
30%	30.000%	30.000%	0.000%	c	RCC Raft			191899		191899	191899	191899
20.00%	20.000%	20.000%	0.000%	d	Walls Half Height Complete			127932		127932	127932	127932
100.00%	67.500%	67.500%	0.000%	Total				639662		431772	431772	431772
				2	Buildings Structure Work @ 13.50%							
				2.1	Administration Building @ 3% & Blower and MCC House @ 3.5% Total is 6.5%			5543736				
5.00%	5.000%	5.000%	0.000%	a	Excavation and dressing Complete			277187		277187	277187	0
7.00%	7.000%	7.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			388062		388062	388062	0
20.00%	20.000%	20.000%	0.000%	c	RCC Raft / Footing, Piling and Column upto Plinth Level			1108747		1108747	1108747	0
15.00%	15.000%	15.000%	0.000%	d	RCC Super Structure upto Lintel Level			831560		831560	831560	0
15.00%	15.000%	15.000%	0.000%	e	RCC Super Structure from Lintel Level to roof slab Complete			831560		831560	831560	335950
10.00%	9.000%	9.000%	0.000%	f	Brick work Complete			554374		498936	498936	498936
100.00%	71.000%	71.000%	15.060%	Total				5543736	0	3936052	3101166	834886

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

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Quantity as per BOQ	Upto date quantity		Quantity Since Previous	Item No.	Description of Item	MB page No.	Unit	Rate		Payment on the basis of actual measurements (Amount)		Since Previous
	2	3						4	8	9	10	
5.00%	5.000%	5.000%	0.000%	2.2	Chlorination Building @ 1.5%	6	7	5543736				
7.00%	7.000%	7.000%	0.000%	a	Excavation and dressing Complete			277187		277187		11
20.00%	20.000%	20.000%	0.000%	b	PCC M15 for Bed Concrete / Levelling Course Complete			388062		388062		11
15.00%	15.000%	15.000%	0.000%	c	RCC Raft / Footing, Piling and Column upto Plinth Level			1108747		1108747		11
15.00%	15.000%	15.000%	0.000%	d	RCC Super Structure upto Lintel Level			831560		831560		11
15.00%	15.000%	0.000%	15.000%	e	RCC Super Structure from Lintel Level to roof slab Complete			831560		831560	0	831560
10.00%	10.000%	0.000%	10.000%	f	Brick work Complete			554374		554374	0	554374
8.00%	8.000%	0.000%	8.000%	g	Inside outside Plaster Complete			443499		443499	0	443499
5.00%	4.000%	0.000%	4.000%	i	Water supply, sanitation, plumbing etc Complete with Fixtures.			221749		221749	0	221749
100.00%	84.000%	47.000%	37.000%		Total			5543736	0	4656738	2605556	2051182
5.00%	5.00%	0.00%	5.00%	2.3	Centrifuge feed pump house and Centrifuge Building @ 1.5%			1279324				
7.00%	7.00%	0.00%	7.00%	a	Excavation and dressing Complete			63966		63966	0	63966
20.00%	20.00%	0.00%	20.00%	b	PCC M15 for Bed Concrete / Levelling Course Complete			89553		89553	0	89553
15.00%	15.00%	0.00%	15.00%	c	RCC Raft / Footing, Piling and Column upto Plinth Level			255865		255865	0	255865
15.00%	15.00%	0.00%	15.00%	d	RCC Super Structure upto Lintel Level			191899		191899	0	191899
15.00%	15.00%	0.00%	15.00%	e	RCC Super Structure from Lintel Level to roof slab Complete			191899		191899	0	191899
100.00%	62.000%	0.000%	62.000%		Total			1279324	0	793182	0	793182
5.00%	5.00%	0.00%	5.00%	2.5	H.T. Substation Civil work @ 1%			852883				
7.00%	7.00%	0.00%	7.00%	a	Excavation and dressing Complete			42644		42644	0	42644
20.00%	20.00%	0.00%	20.00%	b	PCC M15 for Bed Concrete / Levelling Course Complete			59702		59702	0	59702
15.00%	15.00%	0.00%	15.00%	c	RCC Raft / Footing, Piling and Column upto Plinth Level Complete			170577		170577	0	170577
100.00%	32.000%	0.000%	32.000%		Total			852883	0	272923	0	272923
					A-Total For Civil Work			30122743		2538871	4328282	4764372

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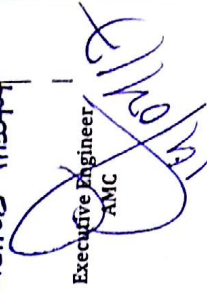





Name of Agency:- M/s Khilari Infrastructure Pvt.Ltd. & GECPL (Joint Venture)

At

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		6	7	8	9	10	11	12
				B	Mechanical Works - Total 36%			30703771				
				3	Aeration Assembly (Including Diffusers and Air Grid), Coarse bubble diffusers in selector Zone @ 3%			2558648				
75.00%	75.00%	0.00%	75.00%	3.1	On Supply of Material on site duly tested and inspected @ 75%			1918986		1918986	0	1918986
100.00%	75.00%	0.00%	75.00%					2558648	0	1918986	0	1918986
				5	Treated Water Draw off Units (Decanters) @ 6%			5117295				
75.00%	75.00%	0.00%	75.00%	5.1	On Supply of Material on site duly tested and inspected @ 75%			3837971		3837971	0	3837971
15.00%	12.00%	0.00%	12.00%	5.2	On Erection / Installation Complete @ 15%			614075		614075	0	614075
10.00%	0.00%	0.00%	0.00%	5.3	On Successful Commissioning/ Trial and Run @ 10%			511730				
100.00%	87.00%	0.00%	87.00%					5117295	0	4452046	0	4452046
				6	Returned Activated and Surplus Sludge Pumps @ 2%			1705765				
75.00%	75.00%	75.00%	0.00%	6.1	On Supply of Material on site duly tested and inspected @ 75%			1279324		1279324	1279324	0
100.00%	75.00%	75.00%	0.00%					1705765	0	1279324	1279324	0
				7	Chlorination system (Chlorinators) @ 2%			1279324				
75.00%	75.00%	75.00%	0.00%	7.1	On Supply of Material on site duly tested and inspected @ 75%			1705765		1279324	1279324	0
100.00%	75.00%	75.00%	0.00%					1705765	0	1279324	1279324	0
					Total					8929680	2558648	6371032
					B-Total for Mechanical Work					39052423	27917019	1135404
					Total For Padegaon STP (A+B)							

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Padegaon Abad RA 11


 Executive Engineer
 AMC

 Dy-Engineer
 AMC

 Jr-Engineer
 AMC

 Project Manager
 AMC

 Chief Engineer
 AMC

 Authorized Signatory
 Contractor
 Khilari Infra Pvt. Ltd.

Date up to
 Date
 10