



# 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. :- 022  
Page No. :-

SPS Zalta RA12

Page 1 of 2

### Measurements of 12<sup>th</sup> Running Account Bill

SCHEDULE B - FOR PART B - B 1 (Percentage Rate Contract)							
1.7	Sewage Pumping Station and Pump House at Zalta						
2	B) - Mechanical Works - Item Include						
ITEM NO	Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps, as specified below.						
8.1	Capacity - 640.00 m <sup>3</sup> /Hrs. Pump Head in mWC- 20 mtr. Efficiency of the pumps 75% Required Motor rating HP- 80 Solid Handling size - 100mm Sp Gravity - 1.05 MOC Casing - CI IS 210 Gr. FG 220 Impeller - CF8M Shaft and Sleeve - SS 316 Motor Parts - CI IS 210 Gr. FG 220 Fasteners - BHT Steel Guide Pipe - Carbon Steel Lifting Chain - Carbon Steel Mech. Seal - Motor Side - Carbon / Chrome Steel - Pump Side - SIC V/6 SIC						
a	For Supply @ 75%						
Date of Measurement	Particulars of work	DC No	Dated	Supplied By	Pump No	Quantity	Remark
	Kishor Submersible Sewage Pump with 20m Cable Length, Model: ASTRA SA-250-315, Casing MOC: NICI	478	25/02/2017	Kishor Pumps	91489	1	Client Inspection
	Kishor Submersible Sewage Pump with 20m Cable Length, Model: ASTRA SA-250-315, Casing MOC: NICI	478	25/02/2017	Kishor Pumps	91490	1	Client Inspection
	Kishor Submersible Sewage Pump with 20m Cable Length, Model: ASTRA SA-250-315, Casing MOC: NICI	478	25/02/2017	Kishor Pumps	91491	1	Client Inspection
	Kishor Submersible Sewage Pump with 20m Cable Length, Model: ASTRA SA-250-315, Casing MOC: NICI	478	25/02/2017	Kishor Pumps	91492	1	Client Inspection
Quantity executed upto RA Bill 11	0.00	Quantity executed In RA Bill 12				4.00	
Total Quantity	4.00	Nos	Quantity executed upto date				4.00
						Percentage work done upto date	
						100.00%	
8.2	Capacity - 825.00 m <sup>3</sup> /Hrs. Pump Head in mWC- 20 mtr. Efficiency of the pumps 75% Required Motor rating HP-100 Solid Handling size - 100mm Sp Gravity - 1.05 MOC Casing - CI IS 210 Gr. FG 220 Impeller - CF8M Shaft and Sleeve - SS 316 Motor Parts - CI IS 210 Gr. FG 220 Fasteners - BHT Steel Guide Pipe - Carbon Steel Lifting Chain - Carbon Steel Mech. Seal - Motor Side - Carbon / Chrome Steel - Pump Side - SIC V/6 SIC						
a	Note: Pumps Added from CIDCO SPS For Supply @ 75%						
Date of Measurement	Particulars of work	DC No	Dated	Supplied By	Pump No	Quantity	Remark
	Kishor Submersible Sewage Pump with 20m Cable Length, Model: ASTRA SA-250-315, Casing MOC: NICI	478	25/02/2017	Kishor Pumps	91493	1	Client Inspection
	Kishor Submersible Sewage Pump with 20m Cable Length, Model: ASTRA SA-250-315, Casing MOC: NICI	478	25/02/2017	Kishor Pumps	91494	1	Client Inspection
	Kishor Submersible Sewage Pump with 20m Cable Length, Model: ASTRA SA-250-315, Casing MOC: NICI	478	25/02/2017	Kishor Pumps	91495	1	Client Inspection
Quantity executed upto RA Bill 11	0.00	Quantity executed In RA Bill 12				3.00	
Total Quantity	3.00	Nos	Quantity executed upto date				3.00
						Percentage work done upto date	
						100.00%	



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Book No. :-  
Page No. :- **023**

**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

SPS Zalta RA12		Page 2 of 2					
30	<b>DI Specials-</b> Providing and supplying ISI standard DI specials and fitting with sealing rubber gasket of SBR complete with cast iron follower gland MS nut bolts coated or otherwise protected from rusting and suitable for DI pipes including cost of labour, materials and transportation to store/ site loading and unloading including all taxes etc. complete as per IS 9523						
Date of Measurement	Particulars of work	DC No	Dated	Supplied By	No	Quantity	Unit
	Single Auto Rail Coupling DI 250NB	478	25/02/2017	Kishor Pumps	7	609	Kg
	Duck Foot Bend CI 250 NB	478	25/02/2017	Kishor Pumps	7	532	Kg
Quantity executed upto RA Bill 11		0.00	Quantity executed in RA Bill 12		1141.00		



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# AURANGABAD MUNICIPAL CORPORATION.

(From No.52)

## Measurement Book

Book No. :- **024**  
Page No. :-

**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.

**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

Zalta SPS Abstract RA 12

Page 1 of 3

PART B - 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												
Stipulated Date of Completion - 01-07-2014												
A & F Sanction No. & Date :- 01-07-2017												
Technical Sanction No. & Date :-												
Serial No. of this Bill - 12, R.A. Bill Dt - 15.03.2017												
Name of Contractor - M/s. Khilari Infrastructure Pvt Ltd.												
Contract No. & Date - /AMC/WARD(B&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	MB Page No.	Rate			Since Previous		
							Full Rate	Part rate	Upto date Amount			
1	2	3	4	4	5	6	7	8	9	10	11	12
					<b>SPS - Zalta</b>							
					<b>Item No 1 :-</b> Designing, Constructing, Erecting and Commissioning and giving satisfactory Performance test of seven numbers (6 Terminal + 1 Intermediate) Sewage pumping stations and pump house including cost of all equipments such as Pumps, Motors, necessary piping, valves, Starters, Change over switches, panel board, Cables, DG set, Mechanical and Manual Coarse Screen, gates, Civil/Mechanical/Electrical work required to provide/installation of equipments as specified in detailed scope of work etc complete.							
				1.7	Sewage Pumping Station and Pump House at Zalta			6164054				
				I	<b>PRELIMINARY WORK PAYMENT SCHEDULE @ 4%</b>			246562				
50.00%	50.00%	50.00%	0.00%	1	Submission of RCC Design & Drawing			123281		123281	123281	0
50.00%	50.00%	50.00%	0.00%	2	Approval of RCC Design & Drawing			123281		123281	123281	0
100.00%	100.00%	100.00%	0.00%	I	<b>Total</b>			246562		246562	246562	0
				II	<b>CONSTRUCTION WORK PAYMENT SCHEDULE</b>							
				1	<b>Civil Works - Total 96%</b>			5917492				
16.67%	16.67%	16.67%	0.00%	1.1	Excavation work			986268		986268	986268	0
6.67%	6.67%	6.67%	0.00%	1.2	Raft, Slab including PCC			394697		394697	394697	0
13.33%	13.33%	13.33%	0.00%	1.3	RCC Walls and Column Structures, staircase Walkways upto Floor level			788979		788979	788979	0
10.00%	10.00%	10.00%	0.00%	1.4	Coarse Screen Chambers			591749		591749	591749	0
23.33%	23.33%	23.33%	0.00%	1.5	RCC works for pump House			1380728		1380728	1380728	0
16.67%	15.84%	15.84%	0.00%	1.6	Brick Masonary, Doors and Windows			986268		937331	937331	0
6.67%	5.33%	5.33%	0.00%	1.7	Plastering and Flooring, Painting, Railing, misc works etc			394519		315402	315402	0
100.00%	91.17%	91.17%	0.00%	I	<b>Total</b>			5917492		5394800	5394800	0
					<b>Total For SPS-Civil Work</b>					5641362	5641362	0
					<b>After Above 21.69%</b>					1223611	1223611	0
					<b>Total Amount-Civil Work(A)</b>					6864973	6864973	0



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Book No. :-  
Page No. :- **025**

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

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

Date of Measurement	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		Last
								Full Rate	Part rate	Upto date Amount	Amount Upto last bill	
					2	<b>B1 - Mechanical Works - Item Include</b> Providing, Installing, Testing, Commissioning of non clog Submersible Sewage Pumps, as specified below.						
					8	Capacity - 640.00 m <sup>3</sup> /Hrs. Pump Head in mWC- 20 mtr. Efficiency of the pumps 75% Required Motor rating HP- 80 Solid Handling size - 100mm Sp Gravity - 1.05 MOC						
					8.1	Casing - CI IS 210 Gr. FG 220 Impeller - CF8M Shaft and Sleeve - SS 316 Motor Parts - CI IS 210 Gr. FG 220 Fasteners - BHT Steel Guide Pipe - Carbon Steel Lifting Chain - Carbon Steel Mech. Seal - Motor Side - Carbon / Chrome Steel						
	6.00	4.00	0.00	4.00	a	For Supply @ 75%	No	619975.00	464981	1859925	0	1859925
					b	Erection / Installation Complete @ 25%			154994	0	0	0
					8.2	Capacity - 825.00 m <sup>3</sup> /Hrs. Pump Head in mWC- 20 mtr. Efficiency of the pumps 75% Required Motor rating HP-100 Solid Handling size - 100mm Sp Gravity - 1.05 MOC Casing - CI IS 210 Gr. FG 220 Impeller - CF8M Shaft and Sleeve - SS 316 Motor Parts - CI IS 210 Gr. FG 220 Fasteners - BHT Steel Guide Pipe - Carbon Steel Lifting Chain - Carbon Steel Mech. Seal - Motor Side - Carbon / Chrome Steel						
	3.00	3.00	0.00	3.00	a	For Supply @ 75%	No	844031.25	633023	1899070	0	1899070
					b	Erection / Installation Complete @ 25%			211008	0	0	0

Zalim SPS Abstract RA 12

Page 2 of 3

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Book No. :- 026  
Page No. :-

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

**Authority No.** AMC/Ward B&C/UIDSSM1/2014/184 **Date** 01.07.2014

Page 3 of 3

Zalta SPS Abstract RA 12

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		
							Unit	Full Rate	Part rate	Upto date Amount	Amount Upto last bill
2.00	3.00	3.00	0.00	18	Providing and erecting Cast Iron Sluice Gates manufactured & tested as per IS3042-1965. Gates to be provided with brass seats and spindle of MS bright bar of required height to enable to operate the gate from operating slab of intake structure including GMI nut bolts S5304 hardware, necessary wedges to be provided to achieve leak tightness, including operational wheel headstock, foundation material, labour etc complete including taxes & duties as per detailed specification & as directed by Engineer in charge.						
	3.00	3.00	0.00	18.2	For Supply of Size : 1000*1200 mm @ 75% Erection / Installation Complete @ 25%	No	279307.60	209481	628442	628442	0
		0.00	0.00	19	Providing, installing a SS Screens along with the channel guide, & railing accessories as per detailed specifications & as directed by Engineer.						
1915.73	3786.00	3786.00	0.00		For Supply of Screens 3786 kg @ 75% Erection / Installation Complete @ 25%				2271600	2271600	0
		0.00	0.00		DI Specials- Providing and supplying ISI standard DI specials and fitting with sealing rubber gasket of SBR complete with cast iron follower gland MS nut bolts coated or otherwise protected from rusting and suitable for DI pipes including cost of labour, materials and transportation to store/ site loading and unloading including all taxes etc. complete as per IS 9523						
1200.46	1141.00	0.00	1141.00	30.1	80 to 300 mm Dia				126970	0	126970
52031.83	0.00	0.00	0.00	30.2	350mm to above Dia				0	0	0
					Total For SPS-Mechanical Work				6786007	2900042	3885965
					AFTER ABOVE 21.69%				1471885	629019	842866
					Total Amount-Mechanical Work(B)				8257892	3529061	4728831
					Total Amount(A+B)				15122865	10394034	4728831



Project Manager  
PM



Jr. Engineer  
AMC



Dy. Engineer  
AMC



Executive Engineer  
AMC



Khilari Infra Pvt. Ltd.  
Authorized Signatory



Project Manager  
PM



Jr. Engineer  
AMC