

Golwadi

Measurements of Ninth Running Account Bill

SCHEDULE B - FOR PART B - B 1 (Percentage Rate Contract)						
1.3 Sewage Pumping Station and Pump House at Golwadi						
I PRELIMINARY WORK PAYMENT SCHEDULE (AS per billing Breakup) @ 4.00 %						
Item 1	Submittal Description			Submission Letter No.		
Date of Measurement	Item No. 1. Submission of RCC, Mechanical, Electrical & Instrumentation Design @ 2%					
	Submission of RCC Design & Drawing			KIPL/A'bad/761/2016		
	Quantity executed upto RA Bill 08	0.000	Quantity executed in RA Bill 09		1.000	
	Total Quantity	1.00	Quantity executed upto date		1.000	
Percentage work done upto date						100.00%
Date of Measurement	Item No. 2. Approval of RCC, Mechanical, Electrical & Instrumentation Design @ 2%					
Item 2	Submittal Description			Submission Letter No.		
	Approval of RCC Design & Drawing			FIAS/A'bad/357/2016		
	Quantity executed upto RA Bill 08	0.000	Quantity executed in RA Bill 09		1.000	
	Total Quantity	1.00	Quantity executed upto date		1.000	
Percentage work done upto date						100.00%
II CONSTRUCTION WORK PAYMENT SCHEDULE						
1 Civil Work @ 96%						
Water Retaining Structure						
Item 1.1	Excavation Work					
a	Excavation and dressing Complete					
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Excavation for SPS Part I	1.00	0.79	1600.00	4.15	5212.40
	Excavation in Hard Rock for SPS Part II	1.00	0.79	930.25	6.50	4746.60
	Excavation in Hard Rock for SPS Part III (For Pit)	1.00	21.00	4.50	2.00	189.00
	Quantity executed upto RA Bill 08	0.00	Quantity executed in RA Bill 09		10148.00	
	Total Quantity	10148.00	Quantity executed upto date		10148.00	
Percentage work done upto date						100.0%
Item 1.2	Raft Slab including PCC					
1.2.1	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 M15 for Bed Concrete / Levelling Course Complete	1	0.785	817.96	0.15	96.31
	Quantity executed upto RA Bill 08	0.00	Quantity executed in RA Bill 09		96.31	
	Total Quantity	96.31	Quantity executed upto date		96.315	
Percentage work done upto date						100.0%
1.2.2	Raft Slab					
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	Raft Slab of grade M 30	1	0.785	806.56	0.35	221.60
	Suction Pit Raft grade M 30	1	47.4	0.35	2	33.18
	Quantity executed upto RA Bill 08	0.00	Quantity executed in RA Bill 09		254.78	
	Total Quantity	254.78	Quantity executed upto date		254.782	
Percentage work done upto date						100.0%
Percentage of (PCC + Raft slab) work done upto date						100.0%
Item 1.3	RCC Walls and Column Structures, staircase Walkways up to Floor level					
Date of Measurement	Particulars of work	No.	L (m)	B (m)	H (m)	Totals (m ³)
	RCC W1 Wall	1	84.623	0.45	5.57	212.11
	Quantity executed upto RA Bill 08	0.00	Quantity executed in RA Bill 09		212.11	
	Total Quantity	723.26	Quantity executed upto date		212.108	
Percentage work done upto date						29.3%



[Handwritten Signature]
 Ramprasad Anil
 Secy @ 85

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 Venture)

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

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 sewerage												
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 - 9 R.A. Bill Dt: 15.06.2016												
Name of Contractor - M/s. Khilari Infrastructure Pvt Ltd.												
Contract No., & Date - /AMC/WARD(B&C)/UIDSSMT/2014/184 Dt. 01.07.2014												
SPS												
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	Since Previous
1	2	3	4	4	A) Civil Work Cost Item No 1 :- 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.	6	7	8	9	10	11	12
					Items to include 1) Carrying out contour survey of pumping station site, and collection of data such as foundation strata, water table level, HFL levels, etc, necessary for design of Pumping station 2) The design shall be in accordance with various relevant I.S. specification (I.S.456/2000, I.S. 875-1987, I.S. 3370-1965 or revised) 3) Designing of Pumping stations comprising of Sump to adequate capacity for ultimate stage flow and pump house of required size with floor level 1.0 m above the HFL to accommodate pumps required to be installed as specified in details scope of work, designing of pumping machinery as specified and approved by Engineer In Charge etc complete.							



(Signature)
T. M. Arif
S. E. (In-charge)

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								Full Rate	Part rate	Upto date Amount	Amount Upto last bill	Since Previous	
					4) Excavation for foundation and construction of RCC sump of required capacity in all types of strata such as soil, marshy, Slushy/muddy soil, sand, gravel, murum, soft rock, hard rock, old cement and lime masonry foundation etc by chiselling, wedging line drilling by mechanical means or by any other means including well sinking works for all lifts including necessary shoring strutting, open timbering wherever necessary, removing, the excavated material up to safe distance and stacking and spreading, carting back for refilling, disposal of surplus excavated stuff up to 5 km lead as directed by, necessary dewatering for excavation and construction and necessary backfilling with compaction etc								
					5) Providing and laying in situ cement concrete in proportion M30 of trap metal for foundation and bedding, vertical walls, slabs, flooring, roof, columns stairs including bailing out water necessary formwork, compaction, and curing etc complete.								
					6) Providing and fixing in position steel bar reinforcement of various diameters for RCC piles, Pile Caps, footing, foundations, slabs, beams, columns, canopies, staircase newels, chajis lintels, etc as per detailed design, drawings, and schedules including cutting, bending, hooking the bars binding with wires or tack welding and supporting as required etc complete (including cost of binding wire)								
					7) providing, erecting and giving test of raw sewage pumping machinery for each pumping station as specified in detailed scope of work conforming to IS 9070 operating at 2900 RPM with necessary piping, valves, starters, panel board, cables and wiring, with CL impeller, priming funnel, cock, suitable flanges a at suction and delivery side motor shall be suitable for working on 415 V-+ 10% 3Ph,50 A.C Supply, motor shall be TEFC (energy efficient motor) at suction and delivery side motor shall								

(Signature)
 (M/s Khilari Infrastructure Pvt. Ltd.)
 20.07.2014



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							Full Rate	Part rate	Upto date Amount	Amount Upto last bill
					8) providing, erecting elective valve actuators totally enclosed weather-proof and dust proof construction for each pumping station as specified in detailed scope of work with IP-67 protection class suitable for installation in any position without lubrication leakage or other operational difficulty with special grease filled gear box and hand wheel for emergency manual operation which will automatically disengage on restoration of power to motor and with 10 W single phase space heater and continuous local mechanical position indicator and individually replaceable counter gear assembly and with two torque and four limit switches with SS flap and operated with gear driven cams and of rating 250 Volt, 5 Amp AC/DC torque switch-dial and with TEFC squirrel cage induction motor working on 440 Volts +/- 10%, 3 phase, 50 Hz AC of intermittent duty rating S-2 insulation class F and temp rise restricted to class B with IP-67 protection class suitable for DOL starting and with three thermostat and 30% over load margin, The torque rating of reduction gear box shall be at least 1.5 times max torque required for opening and closing of valve etc complete					
					9) Providing Erecting EOT/chain pulley box for each pumping stations as specified in detail scope of work with 6m lift complete with load chain and hand chain suitable for above lift tested to 50% over load as per IS 3832, carrying 150 mark					
					10) Providing and fixing steel rolling shutters, doors, windows, ventilators, providing and fixing polished kota flooring with False flooring as and when required, providing necessary electrification inside and outside plaster, providing and applying oil bound distemper from inside and snow cement paint to external exposed walling of the pump house for each of the pumping stations as specified in detailed scope of work etc complete					
					11) Providing necessary automation to enable unmanned operation					



Tom pme Arfil
Sept 6/15

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							Full Rate	Part rate	Upto date Amount	Amount Upto last bill	Since Previous	
				1.3	Sewage Pumping Station and Pump House at Golwadi		No	19674617				
				I	PRELIMINARY WORK PAYMENT SCHEDULE @ 4%			786985				
50.00%	50.00%	0.00%	50.00%	1	Submission of RCC Design & Drawing			393492		393492	0	393492
50.00%	50.00%	0.00%	50.00%	2	Approval of RCC Design & Drawing			393492		393492	0	393492
100.00%	100.00%	0.00%	100.00%	I	Total			786985		786985	0	786984
				II	CONSTRUCTION WORK PAYMENT SCHEDULE							
				1	Civil Works - Total 96%			18887632				
16.67%	16.667%	0.000%	16.667%	1.1	Excavation work			3148002		3148002	0	3148002
6.67%	6.670%	0.000%	6.670%	1.2	Raft Slab including PCC			1259050		1259805	0	1259805
13.33%	3.900%	0.000%	3.900%	1.3	RCC Walls and Column Structures, staircase Walkways up to Floor level			2518288		736618	0	736618
100.00%	27.24%	0.00%	27.24%	I	Total			18887632		5144424	0	5144425
					Total For SPS					5931409	0	5931409
					After Above 21.69%					1286523	0	1286523
					Total Amount					7217932	0	7217932

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Executive Engineer
AMC

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Dy. Engineer
AMC

[Signature]
Sd/- Engineer
AMC
Tampw Anil
Sd/-



Quantity	Total up to Date
9	10