

BILL OF QUANTITY (BQ) AND SCOPE OF WORK

UNIT/TEAM : PPM TEAM

REF NO: DBSB/PROC/ISTAC/2024/RFQ/002

PROPOSED REPAIRING WORKS FOR YORK CHILLER NO. 3 (MODEL : YSCBCBS25CEC), CHILLED WATER PUMP NO. 2, CONDENSER WATER PUMP NO.1, AT IIUM,ISTAC CAMPUS, JALAN DUTA.

ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
1.0	<u>Preliminaries Works</u>				
A	Mobilization and demobilization of personnel, equipment, support facilities and materials equipment, support facilities and materials	L/S			
B	Apply PTW(Permit To Work) details and worker pass by liaise with related authorities for reporting procedure before start the works.	L/S			
C	Site Preparation of equipment, material, labour, and transportation.	L/S			
D	Contractor should obtain the following guideline before and after works : i) Obtain valid pass for workers at DBSB office before starting the work and always display the pass during working hour. Complete the works within agreed time frame by DBSB. ii) Workers should comply with the safety regulations and guideline imposed by Safety and Health Department of DBSB. Wearing suitable PPE equipment and uniform is compulsory. iv) Contractor should store the machineries in proper space during rest time and after working hours v) To ensure all debris to be transported outside IIUM Gombak Campus and makegood of IIUM properties if any.	L/S			
E	Provide relevent tools and make temporary divertation incoming flow from last manhole to sludge holding tank during construction work.	Lot	1		
TOTAL AMOUNT PRELIMINARIES (RM)					

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ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
	(CONT.)				
2.0	<u>York Chiller No. 3 Cooler Tube leak check work :</u> To supply labour, transport, tool & material : a) To dismantle & isolate chilled water pipe & drain remaining water in the system. b) To dismantle cooler both side end cover & associated components to drain remaining water in the system. c) To plug all the copper tube with rubber cock. d) To pressurise cooler with nitrogen up to 150Psig. e) Perform leak check & identify the quantity of puncture tube. f) Stop works, reporting & submit additional proposal for further instruction.	Lot	1		
2.0	<u>York Chiller No. 3 Condenser leak check work :</u>				
2.2	To supply labour, transport, tool & material : a) To dismantle & isolate condenser water pipe & drain remaining water in the system. b) To dismantle Condenser both side end cover & associated components to drain remaining water in the system c) To plug all the copper tube with rubber cock d) To pressurise cooler with nitrogen up to 150Psig. e) Perform leak check & identify the quantity of puncture tube. f) Stop works, reporting & submit additional proposal for further instruction.	Lot	1		
TOTAL AMOUNT PAGE 2/5					

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ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
	(CONT.)				
3.0	<u>CHWP No.2 (30HP) service & repair work :</u>	Lot	1		
3.1	<u>General dismantle works :</u>				
	a) To remove associated components from defective motor & water pump from CHWP No. 2				
	b) To tear down motor & water pump from CHWP No. 2, placed it on floor level & send back to workshop for general overhaul & rewinding.				
	c) Inspect Motor, pump & check wear & tear limits.				
3.2	<u>Pump Repair works :</u>				
	a) To conduct pump overhaul work for CHWP No. 2				
	b) Main bearing (2 pcs) replacement.				
	c) Mechanical Seal (2 pcs) replacement.				
	d) Re-built & re-machine bearing housing (1 lot)				
	e) Re-built & re-machine Main Shaft (1 lot)				
	f) Hand made gasket (1 lot) replacement				
	g) To repair & make good PU jacketing (1 lot)				
3.3	<u>Motor Repair works :</u>				
	a) Surge test stator winding, steam cleaning all parts & bake in oven				
	b) Stator coil rewinding, revarnish & bake.				
	c) Dynamic balance motor's rotor.				
	d) Refurbish worn out bearing housing & replace with new bearing (2pcs).				
	e) Replace motor terminal block (1 pc)				
	f) Testing hermetic motor open circuit.				
3.4	<u>Reassemble works :</u>				
	a) Reassemble motor & water pump back into actual position.				
	b) Motor & water pump axial alignment				
3.3	<u>Workmanship & transportation :</u>				
	a) Workmanship & tools to dismantle & assemble motor & pump from chiller plant room				
	b) Hoisting service to lift up motor & pump from chiller plant room to ground level & from lorry to chiller plant room.				
	c) Transportation return journey in delivery motor & pump to workshop				
	TOTAL AMOUNT PAGE 3/5				

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ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
	(CONT.)				
4.0	<u>CHWP No.1 (25HP) service & repair work :</u>	Lot	1		
4.1	<u>General dismantle works :</u>				
	a) To remove associated components from defective motor & water pump from CHWP No. 1				
	b) To tear down motor & water pump from CHWP No. 1, placed it on floor level & send back to workshop for general overhaul & rewinding.				
	C) Inspect Motor, pump & check wear & tear limits.				
4.2	<u>Pump Repair works :</u>				
	a) To conduct pump overhaul work for CHWP No. 2				
	b) Main bearing (2 pcs) replacement.				
	c) Mechanical Seal (2 pcs) replacement.				
	d) Re-built & re-machine bearing housing (1 lot)				
	e) Re-built & re-machine Main Shaft (1 lot)				
	f) Hand made gasket (1 lot) replacement				
	g) To repair & make good PU jacketing (1 lot)				
4.3	<u>Motor Repair works :</u>				
	a) Surge test stator winding, steam cleaning all parts & bake in oven				
	b) Stator coil rewinding, revarnish & bake.				
	c) Dynamic balance motor's rotor.				
	d) Refurbish worn out bearing housing & replace with new bearing (2pcs).				
	e) Replace motor terminal block (1 pc)				
	f) Testing hermetic motor open circuit.				
4.4	<u>Reassemble works :</u>				
	a) Reassemble motor & water pump back into actual position.				
	b) Motor & water pump axial alignment				
4.3	<u>Workmanship & transportation :</u>				
	a) Workmanship & tools to dismantle & assemble motor & pump from chiller plant room				
	b) Hoisting service to lift up motor & pump from chiller plant room to ground level & from lorry to chiller plant room.				
	C) Transportation return journey in delivery motor & pump to workshop				
	TOTAL AMOUNT PAGE 4/5				

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ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
5.0	(CONT.) Cooling Tower Power Cable Trunking replacement work : To supply labour, transport, tools & material : i) To remove associated defective component & trunking from Cooling Tower No.1, No. 2 & No. 3. ii) To hook up new 2" x 2" GI cable trunking from floor slab to Cooling Tower Motor (Approx 80ft) c/w Ø1' GI Flexible Conduit, Ø1' GI Socket & Bracket iii) Power cable termination. iv) cable insulation testing with instrument. v) Switchboard starter sequence test	Lot	1		
6.0	Testing and Commissioning				
6.1	Internal endurance testing all of mechanical and electrical works including re-setting if required. (within 3 days)	Lot	1		
6.2	External testing and commissioning all replacement of mechanical and electrical works with Authorities (Client)	Lot	1		
7.0	Warranty				
7.2	The minimum warranty period is six (6) months from the completion date. However the contractor can provide a longer warranty period. Please Specify.				
TOTAL AMOUNT PAGE 5/5					

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ITEM	DESCRIPTIONS	UNIT PRICE (RM)
1	Total AMOUNT PRELIMINARIES	
2	Total AMOUNT PAGE 2	
3	Total AMOUNT PAGE 3	
4	Total AMOUNT PAGE 4	
5	Total AMOUNT PAGE 5	
TOTAL AMOUNT (RM)		

This is **All Fixed Sum Contract** based on site condition, drawing, specifications and schedule of rate. This bill of quantities and/or materials take off that may accompany or form part of the contract documents shall act as a guide for claim **ONLY**.

Remarks: The tendered price in this RFQ ref no.: DBSB/PROC/ISTAC/2024/RFQ/002 will be valid for 6 months after tender closing date.

WARRANTY PERIOD : _____ months

ESTIMATE DAYS FOR TOTAL INSTALLATION FINISH : _____ days

RINGGIT MALAYSIA:

I hereby certify that all descriptions are correct and all the offered price included the costs involved in

Signature of Tenderer :

Signature of Witness :

.....
Name:

.....
Name:

Designation:

Designation:

Date:

Date:

Company Stamp :

Company Stamp :