

BILL OF QUANTITY (BQ) AND SCOPE OF WORK
UNIT/TEAM : PPM TEAM

REF NO: DBSB/PROC/ISTAC/2024/RFQ/001

**PROPOSED REPLACEMENT WORKS FOR SUBMERSIBLE PUMPS AND ELECTRICAL PART AT
PUMP STATION ISTAC-IIUM 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 outside chamber during desludging and installation pump works. | Lot | 1 | | |
| TOTAL AMOUNT PRELIMINARIES (RM) | | | | | |

| | | | | | |
|------------|--|-----|---|--|--|
| | (CONT.) | | | | |
| 2.0 | <u>Desludging / Cleaning Works</u> | | | | |
| 2.1 | To provide a temporary pump to pump out all water from pump sump before dismantling existing duck foot | Lot | 1 | | |
| 2.2 | To bring out all sand, debris, grease and waste out of ISTAC Campus | Lot | 1 | | |
| 2.3 | To desludge the sludge in the pump sump by necessary volume of desludging tanker | Lot | 1 | | |
| 3.2 | <u>Fabrication Works (Provisional item)</u> | | | | |
| 3.2.1 | To supply or make good existing screen door (if required) with clearance spacing 25mm (max.) complete with related other accessories. | Lot | 1 | | |
| 3.2.2 | To makegood or supply new (if required) Stainless steel Manual Coarse Screen with clearance spacing 25mm (max.) complete with related other accessories for cater incoming flow inside Screen Chamber | Lot | 1 | | |
| 3.2.3 | To supply or makegood (if any) Stainless steel Perforated Tray with depth 150mm and 9mm dia. hole complete with related others accessories inside Screen Chamber | Lot | 1 | | |
| 4 | <u>Equipment (Please specify other brands and models if</u> | | | | |
| 4.1 | Raw sewage pump | | | | |
| (1) | To supply install Sulzer brand raw sewage pump 5.9KW SUBMERSIBLE PUMP (FLYGT), 3127.80, 9821076481, M21-12-4AL, 0.88COS, 400V, 12A, 3~50Hz, 1440RPM. or its equivalent, suite to existing 1st raw sewage pump and existing discharge pipe. The model is required to have the approval according to the specifications allowed by National Water Service Commission (SPAN) inclusive with: i. Duckfoot and stainless steel wall plug, guiderail claw and auto coupling. ii. Stainless steel guide rails. iii. Stainless steel chain (appropriate size) and stainless steel ring shackle every 1m. iv. Stainless steel bolt, nuts bracket. | Set | 2 | | |

| | | | | | |
|--------------------------------------|--|-----|---|--|--|
| (2) | To modify, supply and replace new pipe and elbow set, ductile iron type to discharge pipe inclusive with: i. GI & stainless steel bolt and nuts ii. Other fittings required iii. Antirust & finishing code (SPAN requirement) | Set | 2 | | |
| (3) | To supply and install one unit one way valve or check valve complete with other component fittings required for existing raw sewage pump | Set | 2 | | |
| 4.1 | Rusty surface To repaint all safety cover, hand railing, lifting facilities and pump station's door with related colour code and anti rust. | Lot | 1 | | |
| TOTAL AMOUNT PAGE 2/3 | | | | | |
| (CONT.) | | | | | |
| 5.0 Electrical Works | | | | | |
| 5.1 | To supply new, install and replace (if required) necessary components and maintain Motor Controlling Circuit (MCC) and necessary float switch circuit to turn on and operate raw sewage pump | Set | 2 | | |
| 5.2 | To supply, dismantle existing (if any) and install Non-Mercury type Float Switch, New Junction Box c/w others related accessories for operational the system. | Lot | 2 | | |
| 5.3 | To Supply, refurbishment / dismantle existing (if any) and install 3 units new PVC Junction Box and to replace existing cable (if necessary) within warranty period | Lot | 1 | | |
| 5.4 | To makegood beacon light system and to replace existing cable (if necessary) within warranty system | Bil | 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 | | | | | |
| 7.1 | Effluent Quality , not in this scope of work. This scope just engage the system can operate as per design purpose. | | | | |
| 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 3/3 | | | | | |



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| ITEM | DESCRIPTIONS | UNIT PRICE (RM) |
|--------------------------|---------------------|-----------------|
| 1 | Total AMOUNT PAGE 1 | |
| 2 | Total AMOUNT PAGE 2 | |
| 3 | Total AMOUNT PAGE 3 | |
| 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/001 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 :