

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

REF NO.: DBSB/PROC/GBK/2025/RFT/09

**TENDER OPERATION AND MAINTENANCE (O&M) OF STP MAINTENANCE WORKS AND SERVICES FOR 16 STP AT IUM GOMBAK CAMPUS**

ITEM	DESCRIPTIONS	AMOUNT (MYR)
1	Total 1.0 Preliminaries	NA
2	Total 2.0 General Monitoring	
3	Total 3.0 Electrical Services and Maintenance	
4	Total 4.0 Mechanical Services	
5	Total 5.0 Civil Services	
6	Total 6.0 Cleaning Services	
7	Total 7.0 Reporting Procedure	
TOTAL AMOUNT FOR 1 MONTH (RM)		
SST 8%		
GRAND TOTAL FOR 1 MONTH (RM)		
TOTAL AMOUNT FOR 9 MONTHS (RM)		
SST 8%		
GRAND TOTAL AMOUNT FOR 9 MONTHS (RM)		

THE TOTAL AMOUNT OF THE TENDER FOR 9 MONTHS IN WORDS

**RINGGIT MALAYSIA:**

I hereby certify that all descriptions are correct and all the offered price included the costs involved in refining the scope of services required by this tender.

Signature of Tenderer:

Signature of Witness:

.....  
Name:

.....  
Name:

Designation:

Designation:

Date:

Date:

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

REF NO.: DBSB/PROC/GBK/2025/RFT/09

**TENDER OPERATION AND MAINTENANCE (O&M) OF STP MAINTENANCE WORKS AND SERVICES FOR 16 STP AT IIUM  
GOMBAK CAMPUS**

ITEM	DESCRIPTIONS	QTY	FREQUENCY	1 MONTH PRICE (RM)	9 MONTHS PRICE (RM)
<b>1.0</b>	<b><u>Preliminaries Works</u></b>				
A	Mobilization and demobilization of personnel, equipment, support facilities and materials required to complete the work.  Location a) STP 2 (Mahallah Asma - EXTENDED AERATION) b) STP 3 (Mahallah Ameenah - HI KLEEN) c) STP 4 (Mahallah Uthman - EXTENDED AERATION) d) STP 5 (Human Science - EXTENDED AERATION) e) STP 6 (KAED - EXTENDED AERATION) f) STP 7 (Transport Unit - HI KLEEN) g) STP 8 (Mahallah Bilal - HI KLEEN) h) STP 9 (Mahallah Maryam - HI KLEEN) i) STP 10 (Educare Unit - HI KLEEN) j) STP 11 (Mahallah Safiyyah - HI KLEEN) k) STP 12 (Female Sport Complex - HI KLEEN) l) STP 14a (Mahallah Ruqayyah - HI KLEEN) m) STP 14b (Mahallah Asiah - HI KLEEN) n) STP 15 (Mahallah Salahuddin - HI KLEEN) o) STP 16 (KICT - HI KLEEN) p) STP 18 (Wadi Budi -SSTS, SMALL SEWAGE TREATMENT SYSTEM)	L/S			
C	Provide one chargeman AI/AO in handling 3 phase electrical control panel components and monitor for maintenance of all equipment in STP. (Please attach competent certificate and CIDB card qualification)	BIL			
C	Provide one competent person in CEPSTPO(Certified Environmental professional in sewage treatment plant) qualification to implement DOE sewage Regulation 2009. (Please attach competent certificate and CIDB card qualification)	BIL			
B	'Apply PTW (Permit To Work) details and worker pass by liaise with related authorities and DBSB representative for reporting procedure before work commencement.				
C	Contractor should obtain the following guideline imposed for servicing and maintenance works: a) Obtain valid pass for workers at DBSB office before starting the work and always display the pass during working hour.  b) Workers should comply with the safety regulations and guideline imposed by Safety and Health Department of DBSB and OSHBE.  c) Wearing suitable PPE equipment and uniforms  d) To ensure all debris to be transported outside IIUM Campus and makegood of IIUM properties if any.				

D	Insurance coverage using takaful insurance for workmanship compensation and public liability within the duration of contract. and must be submitted to DBSB before starting work.	L/S			
E	Contractor to ensure all workers Malaysian nationality or citizenship. All foreign workers should have a valid work permit and employed by the contractor.				
F	REPORTING PROCEDURES a) Preparation of daily and monthly performance report.  b) Preparation of daily and monthly report for billing purposes should attached with pictures affixed with timestamp and checklist as per appendixes. c) Preparation of daily and monthly service checklist complete with verification from appointed DBSB representatives i.e Team Leader/Supervisor (as per attachment). d) Monthly lab test for effluent water sampling.	L/S			
G	Company must comply with Employment Act. Operation and Maintenance (O&M) contractor must comply with DOE and SPAN requirement as per IPA Type C permit (work contractors) for the construction, installation or modification to any part of sewerage system OR IPA Type D permit (O&M contractors) to carry out maintenance services for a sewerage system. (Please attach the registration certificate)	L/S			
H	Contractor should provide basic First Aid Kits to be used during any emergencies.	L/S			
I	Contractor should responsible any damages done to the property of IIUM Gombak or property inside the IIUM Gombak and compensate the payment if any.	L/S			
Total 1.0 Preliminaries (RM)				NA	NA
<b>2.0</b>	<b><u>General Monitoring (Please refer Appendix 1- Daily Performance Monitoring</u></b>				
2.1	Provide one site supervisor for monitoring every STP as per following schedule : i) Monday - Friday : 8.00am - 5.30pm ii) Saturday : 8.00am - 1.00pm iii) Weekend/P.Holiday : Standby	L/S			
2.2	To ensure daily performance monitoring biological process and assets in the STP are in good condition (in case of emergency Operation and Maintenance (O&M) contractor must report to the DBSB Supervisor immediately) : i. Power supply at control panel ii. Water level at screen chamber iii. Electrical pump iv. Drainage effluent (flow) v. Fence vi. Tree vii. Land surface viii. Odour	L/S	DAILY		
Total 2.0 General Monitoring (RM)					

<b>3.0</b>	<b><u>Electrical Services and Maintenance</u></b>				
3.1	To record running test pumps for ammeter reading and hours per meter reading every month.	L/S	MONTHLY		
3.2	To record electrical part replacement by Operation and Maintenance (O&M) contractor or by others such as DBSB technicians, or other contractors on a Monthly basis Sewerage Transaction Plant Report (based on observations and notifications received).	L/S	MONTHLY		
3.3	To record incoming supply, outgoing supply and earthing reading by 1 time a year.	L/S	1 TIME PER CONTRACT		
3.4	Replacement of broken lamp or any electrical appliances in the 16 STP area below 10 feet. (Electrical component at control panel)	L/S	AS WHEN REQUIRED		
3.5	Labour replacement for electrical component at control panel	L/S	AS WHEN REQUIRED		
Total 3.0 Electrical Services and Maintenance (RM)					
<b>4.0</b>	<b><u>Mechanical Services</u></b>				
4.1	Tighten screw, bolts & nuts by monthly for every related equipment and reports to DBSB STP technician any excessive vibration, unusual noises, leaks lubricant and over heating or high amp in the pump and motor.	L/S	MONTHLY		
4.2	To record Mechanical part replacement by Operation and Maintenance (O&M) contractor or by others such as DBSB technicians, or other contractors on a Monthly basis Sewerage Transaction Plant Report (based on observations and notifications received).	L/S	MONTHLY		
4.3	Servicing and greasing penstock by quarterly a year.	L/S	QUARTERLY		
4.4	Greasing in the bearing case of the driving side air blower and other related mechanical parts	L/S	QUARTERLY		
4.5	Changing lubricant oil in the gear case maximum every 6 month or if necessary.	L/S	1 TIME PER CONTRACT		
4.6	Cleaning air filter blowers by monthly or if necessary.	L/S	MONTHLY		
4.7	Checking the pressure running load of air blower and the tension of the V-belt by monthly or if necessary.	L/S	MONTHLY		
Total 4.0 Mechanical Services (RM)					
<b>5.0</b>	<b><u>Civil Services</u></b>				
5.1	To record any defects (noise, vibration, leaks or overflow) of these items and other related items : 1. Pump and piping 2. Hand washing pipe 3. Pump house 4. Drainage 5. Fence	L/S	MONTHLY		
5.2	To record civil defect changes by Operation and Maintenance (O&M) contractor or by others such as DBSB technicians, or other contractors on a Monthly basis Sewerage Transaction Plant Report (based on observations and notifications received).	L/S	MONTHLY		
5.3	Clear any piping blockage inside STP area and outside STP area within 1 meter.	L/S	AS WHEN REQUIRED		
5.4	Adjust gate valve for air diffuser in aeration tank to observe air bubbles. Also adjust gate valve in the sedimentation tank to operate Scum Skimmer, sludge return system and Centre Well to observe scum formation and clear any excess scum. (Please Refer Appendix 2)	L/S	AS WHEN REQUIRED		
Total 5.0 Civil Services (RM)					