

SUMMARY

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM) GAMBANG CAMPUS (PHASE 2)

ITEM	DESCRIPTIONS	AMOUNT (RM)
1.0	Preliminaries	
2.0	Sewage Treatment Plant	
3.0	Service Grease Trap	
TOTAL AMOUNT (RM)		
TOTAL AMOUNT FOR ONE YEAR (RM) (X 12 MONTHS)		
GRAND TOTAL (2 YEARS)		

Remarks:

- 1) The RFQ price in this RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005 will be the contract price during the contract period.
- 2) Deduction will be done if there is a breach of contract.

THE TOTAL AMOUNT OF THE RFQ FOR 2 YEARS 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:

Designation:

Date:

Company Stamp:

.....

Name:

Designation:

Date:

Company Stamp:

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
1.0	<u>PRELIMINARIES</u>				
A	Mobilization and demobilization of personnel, equipment, support facilities and materials required to complete the work.				
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	Apply Confined Space Permit by liaise with related authorities and DBSB representative for reporting procedure before commencement the work				
D	Contractor should obtain the following guideline imposed for servicing and maintenance works: i) Obtain valid pass for workers at DBSB office before starting the work and always display the pass during working hour. Workers should wear uniform which approved by DBSB during performing the works. ii) Workers should comply with the safety regulations and guideline imposed by Safety and Health Department of DBSB and OSHBE. Fully cover COVID-19 vaccine also uptodate tetanus diphteria protection to be submitted copy to DBSB. iii) Wearing suitable PPE and uniforms. iv) Contractor should estimate the quantity of workers to completed the above services within the required frequency and time frame by DBSB. v) Contractor should provide adequate machineries for the above services and ensure the machineries is always in good condition. The machineries should be stored in proper space during rest time and after working hour. vi) To ensure all debris to be transported outside IIUM Kuantan Campus and make good of IIUM properties if any and keep record.				
E	Insurance coverage for contractor all risks (CAR) and Public Liability within the duration of the Contract and must be submitted to DBSB before starting work. (as required)				
	TOTAL 1.0 PRELIMINARIES - B/F				

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL 1.0 PRELIMINARIES - C/F				
1.0	PRELIMINARIES (CONT'D)				
F	<p>To supply manpower as per requirement in <i>Attachment 1</i>. Working days and hour for servicing and maintenance works as follows:</p> <p>i) Monday until Friday - 8:00am-5:30pm ii) Saturday - 8:00am-1:00pm iii) Weekend / Public holiday Standby (please attach competent person qualification or certification)</p> <p>iv) Contractor should provide workers with necessary tools and equipment (as per required)</p> <p>v) Any requirement for work during Public Holiday and Weekend should be informed to the Supervisor or Person In-Charge</p> <p>vi) In such emergency or any requested by DBSB or by Authority Request, the contractor should come to requested place or site within one(1) hour and standby not less two(2)hour to carry out; any meeting, inspection or others related to contractor. Please provide specific hotline number for that purpose.</p> <p>vii) The Contractor should prepare the worker attendant all the work time refer to work scope. The Contractor must all the time meet our minimum required manpower, if any leave should be replace or will be deducted with any cost by DBSB.</p> <p>viii) The Contractor must prepare all document, attendant list, service report, work equipment, transportation, uniform, pass at their own cost.</p>	L/S			
	TOTAL 1.0 PRELIMINARIES - B/F				

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
TOTAL 1.0 PRELIMINARIES - C/F					
G	<p>PRELIMINARIES (CONT'D) Lab test effluent and sampling and result must be submitted every month to DBSB as per following Parameter:</p> <ul style="list-style-type: none"> i) pH ii) Biochemical Oxygen Demand@ 20°C 5days (BOD5) iii) Chemical Oxygen Demand (COD) iv) Suspended Solids (SS) v) Oil & Grease O&G vi) Ammoninical Nitrogen (AN) <p><i>according PPKAS(Kumbahan)2009 Jadual Kedua (iii) Standard B, and accredited SAM every sampling</i></p>	<ul style="list-style-type: none"> 1 1 1 1 1 1 	monthly		
H	<p>Company must comply with Employment Act. Operation and maintenance (O&M) contractor must comply with SPAN requirement as per IPA Type D permit (O&M contractors) to carry out maintenance service for a sewage system but does not involve the operation of such system. (shall attach the valid registration certificate)</p>				
I	<p>Reporting Procedures:</p> <ul style="list-style-type: none"> a) Prepare bimonthly schedule for yearly servicing and maintenance works or PPM programmed (Comprehensive PPM schedule) for all departments and should check for approval b) Preparation and submission of monthly report performance c) Preparation of Monthly report for billing purposes should attached with pictures affixed with timestamp. d) Prepare report on defective unit for any damages 		Monthly		
J	To attend any meeting required by DBSB Representative / Management (as required)		When necessary		
TOTAL 1.0 PRELIMINARIES - B/F					

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
TOTAL 1.0 PRELIMINARIES - C/F					
PRELIMINARIES (CONT'D)					
K	To ensure all chemical items is well kept, tagging, and follow the regulation required by DBSB and related authorities. (as required)				
L	Contractor should provide First Aid Kits to be used during any emergencies.	L/S			
M	Contractor should responsible any damages done to the property of IIUM Kuantan Campus or property inside the IIUM Kuantan Campus and compensate the payment if any.				
TOTAL 1.0 PRELIMINARIES (RM)					

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
2.0	SERVICES AND MAINTENANCE WORKS FOR SEWAGE TREATMENT PLANT(STP)				
2.1	Control Room				
	i. To keep the floor clean and dry		Fortnightly		
	ii. To clean the drain around the building		Fortnightly		
	iii. Take reading equipment and record.		Daily		
2.2	Pump sump & Screening				
	i. Lubricate & open / close penstock & gate valves. Apply grease to the sliding part and shaft. Tighten gland packing if found leaking.		Bimonthly		
	ii. Clear debris and dirt attached on the wall of coarse screen chamber.				
	iii. Lift up and clean up the float switch.				
	iv. Clear floating materials in the pumps or sump.				
	v. Clear fine screen & grit chamber				
	vi. Clear blockage at pumps.				
	vii. Clean dry well of value chambers.				
	viii. To ensure all the pumps are running in correct sequence and check / recorded any pump trip.				
	ix. To ensure the pumps are running smoothly and no abnormal noise.	L/S	Fortnightly		
	x. To check / recorded the pump & coarse screen basket lifting chain and make sure it is hung properly.				
	xi. To check / recorded discharge and of the pump to detect any blockage.				
	xii. To remove oil & grease trapped in the grease chamber.		Monthly		
2.3	Sewage Treatment Plant House Keeping				
	i. Cutting grass inside the fencing.				
	ii. To ensure cleanliness all the discharge channel (effluent) at sampling point.		Fortnightly		
	iii. Check and report on grating, hand rail, chequer plates, stairs, platforms, concrete slabs etc				
2.4	Coarse Screen Chamber				
	Protect equipment from rags, wood and others debris also				
	i. To check penstock in good condition and always can be				
	ii. To check, clean with high-pressure water on the wall, equipment also surrounding area.		Fortnightly		
	iii. To check, lubricate, calibrate according manufacture.				
	iv. Remove trap item outside the IIUM by proper handling without cause any nuisance to the public.				
TOTAL SEWAGE TREATMENT PLANT - B/F					

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
TOTAL SEWAGE TREATMENT PLANT - C/F					
2.5	<p><u>Wet Well</u> Lift up sewage to a higher point for treatment, provide consistent flow to the treatment system, and prevent overflow of crude sewage.</p> <p>i. To clean and set floating switch at manufacture setting also functioning.</p> <p>ii. Remove any debris trap inside the well</p>	L/S	Fortnightly		
2.6	<p><u>Dry Pit Pump</u> Lift up sewage to a higher point for treatment, provide consistent flow to the treatment system, and prevent overflow of crude sewage.</p> <p>i. To monitor and check submersible pump running in good condition.</p> <p>ii. To monitor, gate valve, coupling, in good condition.</p> <p>iii. Check the operation of the pumps and motor.</p> <p>iv. Check for excessive vibration, unusual noises, lubricant, leakage and over heating</p> <p>v. Maintenance pumping unit by manufacturer instruction</p> <p>vi. Check operation of any pump controls and instrumentation.</p>		Fortnightly		
2.7	<p><u>Fine Screen Chamber</u> Remove any material trap on equipment into the rubbish bin, and empty the rubbish bin without cause nuisance</p> <p>i. To carry out inspection, servicing maintenance, lubricate, repair and refurbishment work.</p> <p>ii. Clean with high pressure water.</p>		Fortnightly		
2.8	<p><u>Grit Chamber</u> Remove havier particles and undissolved particles.</p> <p>i. To carry out inspection, servicing maintenance, lubricate, repair and refurbishment work.</p> <p>ii. To check grit level and perform routine service.</p> <p>iii. Clean with high pressure water.</p>		Fortnightly		
TOTAL SEWAGE TREATMENT PLANT - B/F					

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)	
TOTAL SEWAGE TREATMENT PLANT - C/F						
2.8	<p><u>Grit Chamber</u> Remove havier particles and undissolved particles.</p> <p>i. To carry out inspection, servicing maintenance, lubricate, repair and refurbishment work.</p> <p>ii. To check grit level and perform routine service.</p> <p>iii. Clean with high pressure water.</p>	L/S	Fortnightly			
2.9	<p><u>Grease Chamber</u> Remove oil & grease and undissolved particles.</p> <p>i. To carry out inspection, servicing maintenance, lubricate, repair and refurbishment work.</p> <p>ii. To check grease level and perform routine service.</p> <p>iii. Clean with high pressure water.</p>		Fortnightly			
2.10	<p><u>Sand Pit</u></p> <p>i. Check sludge accumulate</p> <p>ii. Clean with high pressure water.</p>		Fortnightly			
2.11	<p><u>Anoxic tank</u></p> <p>i. To carry out inspection, servicing maintenance, lubricate, repair and refurbishment work.</p> <p>ii. Clean with high pressure water.</p> <p>iii. Check operation and perform routine service.</p>		Fortnightly			
2.12	<p><u>Aeration tank</u></p> <p>i. Ensure smooth inflow from the other chamber</p> <p>ii. Check / adjust appropriate return activated sludge flow</p> <p>iii. Check air pipes system & ensure no leaks</p> <p>iv. Adjust ball valve to ensure sufficient air bubbles in the aeration tank</p> <p>v. To observe the growth of the biomass and test the Sv30 in the aeration tank</p> <p>vi Physical check on sewage color and foaming</p> <p>vii. To check any leakage in distribution pipe work and valve.</p>		Fortnightly			
TOTAL SEWAGE TREATMENT PLANT - B/F						

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
TOTAL SEWAGE TREATMENT PLANT - C/F					
2.13	Sedimentation tank i. Dried sludge removal from drying ii. Replenish top layer sand with new sand of same grade iii. Growing weed in sand drying beds removed and do not used any chemical treatment to the grass or weeds iv. To sure the splash pad is located directly beneath the discharge nozzle		Fortnightly		
2.14	Sludge Holding Tank & Desludging i. Check sludge level and record ii. Observe the appearance & amount of overflow into Raw Sewage Pump Sump iii. Check / adjust apperiate inflow / waste sludge iv. Desludging operation to send sediment tank		Fortnightly		
2.15	Disinfection Chamber/ Final Effluent i. Clean deposits on the well, floor, inlet & outlet channel ii. Record water discharge		Fortnightly Daily		
2.16	Air blower and electric Motor -Driven i. Turn on each blower to check for unusual noise & vibration ii. Carry out servicing by checking / replace drive belting, clean air filters, check valves, pressure gauge, pilot gear, shaft seal bearing & general cleaning of engine / motor body iii. Change lubrication oil and do grease as per manufacture requirement iv. Exchange the whole quantity of used oil and grease with new ones every six (6) months		Fortnightly Fortnightly Bi-annual Bi-annual		
2.17	Float Switches i. Clean off attached materials off the float switch ii. Check operational function or condition of float switches and their cables iii. Check level of float switches to ensure it is properly set iv. Check the operating start of the pump (by activating float switches via manual lifting of float switches) v. Check the operating cycle of the pump to ensure that the pumps are properly set of intermittent sequential operation.		Fortnightly		
TOTAL SEWAGE TREATMENT PLANT - B/F					

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
TOTAL SEWAGE TREATMENT PLANT - C/F					
2.18	vi. Report is screen operating sequence is off	L/S	Fortnightly		
	Electrical Switchboard and Wiring				
	i. To clean the switch boards		Fortnightly		
	ii. To check for any loose or faulty electrical connection to the raw sewage pumps, air blowers and treated sewage pumps		Fortnightly		
	iii. To check and record the ammeters and hour run meters reading for all the mechanical equipment in operation.		Daily		
	iv. To check the alarm system		Fortnightly		
	v. Check wiring, cables, fuses, testing auto tripping & alarm system at the Main Control Panel with Clients representative.		Fortnightly		
	vi. To ensure the air blower, raw & treated sewage pumps		Fortnightly		
	vii. To check operating cycle of pumps to ensure that the pumps are properly set for intermittent sequential operation		Fortnightly		
	viii. Open pumps to check and clear blockage if any pumps is trip, high current, low flow or experiencing high vibration or sound		Fortnightly		
2.19	Others				
	i. To clean the pumps				
	ii. To check for any loose or faulty to the raw sewage pumps, air blowers treated sewage pumps				
	iii. To check and record the ammeters and hour run meters reading for all the mechanical equipment in operation				
	iv. Check wiring, cables, fuses, testing auto tripping & alarm system at the Main Control Panel with Client representative	Fortnightly			
	v. To ensure the air blower, raw & treated sewage pumps running & the change over sequence operable				
	vi. Open pumps to check and clear blockage if any pumps is trip, high current, low flow or experiencing high vibration or sound				
	TOTAL SEWAGE TREATMENT PLANT - B/F				

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
TOTAL SEWAGE TREATMENT PLANT - C/F					
2.20	vii. Measured Insulation resistant		Yearly		
	viii. Measured operating current		Yearly		
	ix. Measured supply voltage		Yearly		
	x. Measured any drop of performance		Yearly		
	xi. Check air valve operation		Fortnightly		
	xii. Oil Inspections		Fortnightly		
	xiii. Oil Change		Bimonthly		
	xiv. Change mechanical seal, packing, O-ring, Labyrinth Ring,		Quarterly		
	xv. Shaft Sleeve				
	xvi. All reports have to be justified and recommended by competent Chargeman.		Monthly		
2.20 Sampling and Report					
i.	Discharge treated effluent, BOD5 pada 20°C, SS, COD, Ph, Ammonical Nitrogen, O&G, with water discas report *PPKAS 2009 Jadual Kedua (Peraturan &)(iii) Standard B *Every sampling shall comply lab SAM accredited	1	Monthly		
ii.	Report sampling need submit to DBSB every 1st week on pass month and copy should keep on site.				
Total 2.0 SEWAGE TREATMENT PLANT (RM)					

BILL OF QUANTITY (BQ)

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
3.0	<p><u>Service Grease Trap</u></p> <p>i. Service and clean unit. All item must be discard properly without affected surrounding area.</p> <p>ii. Display "Warning Sign" when running any task.</p> <p>iii. Compulsary follow Safety requirement by local authority or under IIUM Safety Policy</p> <p>iv. Cumpulsary to inform early day before task and prepare complete equipment/staf without too much traffic.</p> <p>v. Task keep neet and shall not effected current service, before or after completed.</p> <p>vi. Submit report complete to DBSB on every first week end of month. Before, current and complete picture must be attach. If any defect shall be remark in the report.</p> <p><u>Building</u></p> <p>1 AL BIRUNI CAFE 1</p> <p>2 AL BIRUNI CAFE 2</p>	l/s	monthly		
		nos			
		1	monthly		
		1	monthly		
Total 3.0 SERVICE GREASE TRAP (RM)					

BILL OF QUANTITY (BQ) (ATTACHMENT I)

UNIT/TEAM : MECHANICAL TEAM

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY
MALAYSIA (IIUM) GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	DBSB MINIMUM REQUIREMENT
	<u>MANPOWER SUPPLY FOR SERVICING SEWAGE TREATMENT PLANT</u>	
i	<u>SUPERVISOR/LEADER</u> a) Malaysian, male age 18 years old and not exceeding 60 years old b) Certificate or Diploma in technical course related to fire fighting system c) Good communication and have leadership skills d) Can speak, write, read and understand well in Malay and English e) Possess own transportation and mobile phone	1
ii	<u>Competant Person</u> a) Malaysian, male age 18 years old and not exceeding 60 years old b) Certificate Environmental Professional in Sewage Treatment Plant Operation c) Good communication and have leadership skills d) Can speak, write, read and understand well in Malay and English e) Possess own transportation and mobile phone	1 minimum once a month
iii	<u>Wireman</u> a) Malaysian Male have a certificate by Suruhanjaya Malaysia as Wireman PW4 level, monitoring, plan and maintenance operation. b) Mentally and physically fit with no criminal records, not under drug abuse or under police patrol c) Working age: 18 years and not exceeding 60 years old can lifting heavy item not less then 2kg.	1

BILL OF QUANTITY (BQ) (ATTACHMENT I)

UNIT/TEAM : MECHANICAL TEAM

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY
MALAYSIA (IIUM) GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	DBSB MINIMUM REQUIREMENT
iv	<p><u>GENERAL WORKERS</u></p> <p>a) Malaysian Male have a relevant certificate related sewage work, ie: confined space training for authorised entrant(AE) & standby person , certified first aider, CIDB Green Card,</p> <p>b) Mentally and physically fit with no criminal records, , not under drug abuse or under police patrol</p> <p>c) Working age: 18 years and not exceeding 60 years old can lifting heavy item not less then 2kg.</p>	1
	TOTAL 3.0: MANPOWER FOR SERVICING SEWAGE TREATMENT PLANT	4

SCHEDULE OF RATE

UNIT/ TEAM : SEWERAGE TREATMENT PLANT

RFQ No: DBSB/PROC/GMBG2/2023/RFQ-005

**PROPOSED MONTHLY SERVICE FOR SEWAGE TREATMENT PLANT (STP)& GREASE TRAP
AT THE CENTRE FOR FOUNDATION STUDIES (CFS), INTERNATIONAL ISLAMIC UNIVERSITY
MALAYSIA (IIUM) GAMBANG CAMPUS (PHASE 2)**

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)
	<u>Pump</u>			
A	Supply and Install Submersible Pump 1kW 3phase	Nos.	1	
B	Supply and Install Submersible Pump 1.9kW 3phase	Nos.	1	
C	Supply and Install Submersible Pump 2.0kW 3phase	Nos.	1	
D	Supply and Install Submersible Pump 3.0kW 3phase	Nos.	1	
E	Supply and Install Submersible Pump 4.0kW 3phase	Nos.	2	
F	Supply and Install Submersible Pump 5.0kW 3phase	Nos.	1	
G	Supply and Install Submersible Pump 6.0kW 3phase	Nos.	1	
H	Supply and Install Submersible Pump 7.0kW 3phase	Nos.	1	
I	Supply and Install Submersible Pump 22.0kW 3phase	Nos.	1	
J	Brand:HERMAN Model:HER-CLA-P3-005-180 0.37kW	Nos.	1	
	Repair Pump (Rewinding, Replace Bearing & Replace Shaft Seal)			
A	Submersible Pump 1kW 3phase	Nos.	1	
B	Submersible Pump 1.9kW 3phase	Nos.	1	
C	Submersible Pump 2.0kW 3phase	Nos.	1	
D	Submersible Pump 3.0kW 3phase	Nos.	1	
E	Submersible Pump 4.0kW 3phase	Nos.	1	
F	Submersible Pump 5.0kW 3phase	Nos.	1	
G	Submersible Pump 6.0kW 3phase	Nos.	1	
H	Submersible Pump 7.0kW 3phase	Nos.	1	
I	Submersible Pump 22.0kW 3phase	Nos.	1	
J	Submersible Mixer 1.5kW 3phase	Nos.	1	
K	Brand:HERMAN Model:HER-CLA-P3-005-180 0.37kW	Nos.	1	
	Service (Bearing, Belting, Blower unit)			
A	Blower Brand:FU-TSU Model:TSE-200 Cap:33.67 m ³ /min 45kW	Nos.	1	
	Supply			
A	Fine bubble diffuser Brand: UNIFLEX Model:U330	Nos.	1	

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.

ADDITIONAL CLAUSE

No.	Description	Details
1	Performance Bond	Vendor / Supplier shall be pay a Performance Bond ("PB") as stated in LOA in the form of a Bank Guarantee before any Purchase Order can be issued to the successful tender bidder.
2	Policy Insurance	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.
3	EPF & SOCSO	Must register with EPF & SOCSO for each legal employee and shall be proven.
4	Working Permit	<p>Contractor to ensure all workers Malaysian nationality or citizenship. All foreign workers should have a valid work permit and employed by the contractor.</p> <p>Having a valid working permit (PLKS), Long Term Social Visit Pass (LTSVP), those employees who joins with any amnesty program introduced by Malaysia Government e.g The Labour Recalibration Programme PATI but a valid registration document, biometric verification letter of a valid working permit to be furnished to DBSB from time to time.</p> <p>Those in renewal process, must provide e-letter or relevant documents given by Immigration as evidence in case a valid working permit is not able to provide upon expiry.</p>