

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

REF TITLE : STP2/RSP&AERATOR

**PROPOSED DESLUDGING WORKS, TO REPLACE RSP AND AERATOR BLOWER COMPLETE WITH ELECTRICAL PARTS AT STP2, MAHALLAH ASMA IUM GOMBAK**

ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
<b>1.0</b>	<b><u>Preliminaries Works</u></b>	L/S			
A	Mobilization and demobilization of personnel, equipment, support facilities and materials required to complete the work				
B	Apply PTW(Permit To Work) complete with identification card copy by liaise with related authorities for reporting procedure before start the works.				
C	Site Preparation of equipment, material, labour, transportation, cleaning and related safety.				
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. ii) Workers should comply with the safety regulations and guideline imposed by Safety and Health Department of DBSB. iii) Wearing suitable PPE equipment and uniform. iv) Contractor should estimate the quantity of workers to complete the above services within the required frequency and time frame by DBSB. v) The machineries should be stored in proper space during rest time and after working hour.				
E	Insurance coverage for Public Liability.				
F	Working days and hour for maintenance works: i) Days : Monday until Friday Time : 9.00AM - 5.30 PM				
G	Any requirement for work during Public Holiday and Weeknd should be informed to the Supervisor or person incharge.				
H	Reporting Procedures i) Preparation of report for billing purposes should attached with picture affixed with timestamp.				
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.				
<b>TOTAL AMOUNT PRELIMINARIES (RM)</b>					

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

REF TITLE : STP2/RSP&AERATOR

**PROPOSED DESLUDGING WORKS, TO REPLACE RSP AND AERATOR BLOWER COMPLETE  
WITH ELECTRICAL PARTS AT STP2, MAHALLAH ASMA IUM GOMBAK**

ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
	(CONT.)				
<b>2.0</b>	<b><u>Desludging / Cleaning Works</u></b> To provide a temporary pump to pump out all water in the aeration tank to the clarifier tank for dewatering works	Lot	1		
2.1	To disludge the sludge in pump sump and aeration tank by 4.5m <sup>3</sup> disludging tanker	Lot	6		
2.2	To transfer all sand, debris and balance of the sludge to sludge holding tank (if any)	Lot	1		
<b>3.0</b>	<b><u>Mechanical Works</u></b>				
	<b><u>Equipment (Please specify other brands and models if there any changes)</u></b>				
3.1	<b><u>Raw sewage pump</u></b> To supply install Sulzer brand raw sewage pump (previous model is ABS AFP 1541 M60/4-2-1) 6kW, H 18m, Q 287 m <sup>3</sup> /h 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 and float switch	Bil	1		
3.1.1	To modify, supply new and replace (if any) pipe and elbow set, ductile iron type to discharge new screen chamber inclusive with: i. GI & stainless steel bolt and nuts ii. Other fittings required iii. Antirust & finishing code (SPAN requirement)	Lot	1		
3.2	<b><u>Submersible Aerator</u></b> To supply, dismantle (if any) and install as existing submersible aerator (Model AT 110) Motor : 11.0 kW (3ph/415v/50hz) H 4m  The model is required to have the approval according to the specifications allowed by National Water Service Commission (SPAN) inclusive with Stainless steel chain (appropriate size) & stainless steel ring shackle every 1m.	Set	2		
<b>TOTAL AMOUNT PAGE 2 (RM)</b>					

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

REF TITLE : STP2/RSP&AERATOR

**PROPOSED DESLUDGING WORKS, TO REPLACE RSP AND AERATOR BLOWER COMPLETE WITH ELECTRICAL PARTS AT STP2, MAHALLAH ASMA IUM GOMBAK**

ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE (MYR)	TOTAL PRICE (MYR)
	(CONT.)				
<b>4.0</b>	<b><u>Electrical Works</u></b>				
4.1	To supply new, install and replace (if required) necessary components and maintain Motor Controlling Circuit (MCC) with Star Delta controller for submersible aerator.	Set	3		
4.2	To supply, dismantle existing (if any) and install New Junction Box c/w others related accessories for operational the system.	Lot	1		
<b>5.0</b>	<b><u>Testing and Commissioning</u></b>				
5.1	Internal endurance testing all of mechanical and electrical works including re-setting if required. (within 3 days)	Lot	1		
5.2	External testing and commissioning all replacement of mechanical and electrical works with Authorities (Client)	Lot	1		
<b>6.0</b>	<b><u>Warranty</u></b>				
6.1	The minimum warranty period is six (6) months in operation mode from the completion date. However the contractor can provide a longer warranty period. Please specify.				
<b>TOTAL AMOUNT PAGE 3 (RM)</b>					

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

REF TITLE : STP2/RSP&AERATOR

**PROPOSED DESLUDGING WORKS, TO REPLACE RSP AND AERATOR BLOWER COMPLETE  
WITH ELECTRICAL PARTS AT STP2, MAHALLAH ASMA IIUM GOMBAK**

ITEM	DESCRIPTIONS	UNIT PRICE (RM)
1	Total AMOUNT PRELIMINARIES	
2	Total AMOUNT PAGE 2	
3	Total AMOUNT PAGE 3	
<b>TOTAL AMOUNT (RM)</b>		

Remarks: The tendered price 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 refining

Signature of Tenderer :

Signature of Witness :

.....  
Name:

.....  
Name:

Designation:

Designation:

Date:

Date:

Company Stamp :

Company Stamp :