

AN INTERIM GUIDE ON

PREAMBLES AND STANDARD BILL OF QUANTITIES



KERAJAAN MALAYSIA



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AN INTERIM GUIDE ON

PREAMBLES

AND

STANDARD

BILL OF

QUANTITIES

BILL NO. 1 - GENERAL ITEMS

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[PREFACE]

This document, An Interim Guide On Preambles And Standard Bill Of Quantities - Bill No. 1 - General Items, is to be read in conjunction with the Malaysian Standard Civil Engineering Standard Method of Measurement Second Edition (MyCESMM2) under Class A : General Items. It is only applicable for civil engineering works in JPS projects.

The objectives of this document are :

1 REFINEMENT

Refinement to existing "Buku Panduan Preambles And Method of Payments For Standard General Items"

2 IMPROVEMENTS

Improvements towards MyCESMM2 and to ease the measurers in preparing the Bill of Quantities (BQ)

3 STANDARD

A document that contains a comprehensive listing of standard BQ descriptions that can be easily referenced by measurers in preparing BQ

4 BEST PRACTICE

Inculcate best practices in JPS in order to prevent and minimize conflict and dispute

5 EFFICIENT

To provide vital sources of information to the Engineers / Quantity Surveyors (QS) and to enable tenders to be prepared efficiently and accurately

[INTRODUCTION]

In preparing a BQ, prior to writing the item descriptions, it is typical for measurers to search for the corresponding items and code numbers from the MyCESMM2. Different measurers will have different ways and styles of writing the item descriptions.

This guide produced in a standard and thorough manner for Bill No. 1 - General Items is applicable for all JPS projects. All the measurer needs to do is to copy the items together with the code numbers from the standard BQ given, along with the preambles, and fill in the information where applicable to suit the tender prepared.

It is important to take note that measurers are not allowed to itemised items under code A350 - Maintenance of Road, A410 - Occupational Safety & Health Management and A520 to A530 - Contractor's Requirement for Temporary Work under this Bill No. 1 - General Items. These items are to be listed in separate bills and it is advisable for items A520 to A530 - Contractor's Requirement for Temporary Work to be provided under BQ of the permanent work.

Preambles to Bill No. 1 - General Items provided herewith constitute an important part of the BQ and contain vital sources of information for the contract administrators. These preambles include information on the method of measurement for payment to the contractors based on the item coverage specified. Any deviation to the MyCESMM2 is also specified in the Preambles and shall take precedent over the MyCESMM2.

**BAHAGIAN UKUR BAHAN DAN PENGURUSAN KONTRAK
JABATAN PENGAIRAN DAN SALIRAN MALAYSIA
NOVEMBER 2021**

GENERAL PREAMBLES TO THE BILL OF QUANTITIES

GENERAL PREAMBLES TO THE BILL OF QUANTITIES

1. GENERAL PREAMBLES

- 1.1 The Contract comprises the construction, completion and maintenance of the said Works inclusive of Defects Liability Period, The Works shall include the provision of all labour, materials, constructional plant, temporary or permanent works as required in the Contract.
- 1.2 The Bill of Quantities shall be read in conjunction with the Conditions of Contract, the Specification and the Drawings in the Contract Document.
- 1.3 The quantities in the Bill of Quantities, unless otherwise stated, are provisional only and are given to provide a common basis for tendering and shall not be taken as the actual and correct quantities to be executed. The basis of payment will be the actual quantity of works carried out and shall be ascertained by joint measurement as stated in Clause 27.0 to the Conditions of Contract.
- 1.4 The headings, sub-headings and item descriptions in the Bill of Quantities identify the works covered. However, the exact nature and extent of the work to be carried out shall be ascertained by reference to the Contract as a whole, in particular the Conditions of Contract, the Specification and the Drawings. It shall be read together with the relevant measurement rules and coverage rules in the Malaysian Civil Engineering Standard Method of Measurement – Second Edition (MyCESMM2).
- 1.5 The rates and prices inserted in the Bill of Quantities shall include cost of the works described, all risks, liabilities and obligations set forth or implied in the Contract Document and shall be deemed to include the following, unless expressly stated otherwise:
 - (a) the provision of labour and all costs in connection therewith;
 - (b) the supply of materials, goods, equipment and storage thereof including delivery to site and all costs in connection therewith;
 - (c) taking delivery of materials, goods and equipment necessary for the Works and including those supplied by others, loading and unloading, storage and all costs in connection therewith;
 - (d) the provision of plants and machineries and all costs in connection therewith;
 - (e) the fixing, erecting and installing or placing in position of materials, goods and equipment including around obstruction, tolerances, penetration, working space, over-breaks etc. and all costs in connection therewith;

- (f) the provision of all temporary works and all costs in connection therewith unless separately provided for in the Bill of Quantities;
- (g) the phasing requirements of the Works including the effect on the programming of the Works of all traffic and drainage diversions, special structural requirements, earthwork restrictions, alterations to services and street lighting (executed under the Contract or in conjunction with it) and all other requirements of the Contract and all costs in connection therewith;
- (h) all cost of testing to show proof of compliance with the Specification on materials and workmanship inclusive of samples of materials and submission of tests results. Should the frequency of testing and sampling not specified, then it shall be in accordance with the relevant Malaysian/British Standards and Codes of Practice. Where there is no such relevant Standards and Codes of Practice for reference, it shall then be as instructed by the Superintending Officer (SO) / Project Director (PD);
- (i) all Goods and Services Tax, royalties and dues which the Contractor may be required to pay;
- (j) wastage;
- (k) water and electricity for the Works;
- (l) establishment charges, overheads and profit;
- (m) whatsoever method of construction the Contractor may adopt.

2. MEASUREMENT

- 2.1 Notwithstanding any customs to the contrary or any other Malaysian Civil Engineering Standard Method of Measurement – Second Edition (MyCESMM2) principles, the works as described in the Bill of Quantities shall be measured in accordance with the Preamble to the Bill of Quantities, measurement rules and coverage rules in the Method of Measurement and the items in the Bill of Quantities.
- 2.2 The measurement of work shall be computed net from the Drawings unless stated otherwise in the Method of Measurement.
- 2.3 Certain items in the Bill of Quantities represent composite construction works involving several classes of materials and workmanship which may not be described in the item, Preambles or Specifications. The Contractor shall ascertain the quantities of the component works involved in the items and price them accordingly.

3. UNPRICED ITEMS

- 3.1 Items against which no price or rate is entered will not be paid for when executed and shall be deemed to be covered in other prices or rates in the Bill of Quantities.
- 3.2 All cost not included elsewhere but necessary for compliance with each and every term in the Conditions of Contract shall be deemed to have been covered by the rates and prices in the Bill of Quantities.

4. GENERAL ATTENDANCE

4.1 General attendance on Nominated Sub-contractors shall include:

- (a) in the case of works or services executed: for allowing the use of existing working space, access, temporary roads, erected scaffolding, sanitary, welfare and other facilities existing on Site and the provision of protection, water, electricity for lighting and clearing away rubbish and debris arising from the work;
- (b) in the case of goods, materials or services supplied: for taking delivery, unloading, storing, protection and returning crates, cartons and packing materials.

5. PHASING SEQUENCE OF OPERATIONS AND METHODS OF CONSTRUCTION

The rates and prices shall, unless otherwise stated, include for the costs of compliance with any restrictions imposed on the programming of the Works by the Government and Local Authorities and other relevant authorities dealing with phasing sequence of operations, method of construction, safety and health and liaison and access.

6. TRIALS, SAMPLES, TESTS AND INSPECTION

The rates and prices shall include for tests and the effects on the progress of the Works for the carrying out of all trials, sampling and tests whether specified in the Contract Document or otherwise in order to ensure compliance with the requirements of the Specification except where separately itemized in the Bill of Quantities.

7. EXISTING SERVICES AND MAINS

The Contractor shall include in his rates and prices for taking measures to locate the actual position and provide support and full protection of existing services and mains and other equipment and machineries during the progress of the Works. The Contractor shall inform the SO/PD of all arrangements with all Statutory and Public Utility Authorities.

8. **WORK UNDER WATER & FLOOD CONDITIONS**

The rates shall include any costs arising from executing work under water wherever required and the disruption to the execution of works during any condition of flood and for consequential effects on plant, equipment and machinery arising from such conditions.

9. **PHRASEOLOGY**

Differences in the method of billing and in phraseology used in various parts of the Bill of Quantities and/or Schedule of Rates shall not be a basis of any claim for an increase in the rates and prices.

10. **PROVISIONAL SUMS**

All provisional sums included in the Bill of Quantities are intended to be approximate indications only of the amounts to be expended in respect of the work described and may be omitted entirely or substantially varied without entitling the Contractor to any claim for compensation. No part of the Contractor's overhead, expenses or profit should be included in these sums when the bill is priced unless items for profit and attendance are specifically allowed for.

11. **CURRENCY OF PAYMENT**

Pricing of the Contract shall be in Malaysian Ringgit to two decimal-place. Payment to the Contractor under the Contract shall be in Malaysian Ringgit.

12. **TEMPORARY DIVERSIONS**

Work in connection with the temporary diversion of roads, accesses, drainage and services, whether detailed in the Contract or not shall be covered by the appropriate Lump Sum Items in **Bill No. 1: General Items** of the Bill of Quantities unless separately measured in other parts of the Bill of Quantities.

13. **MAINTENANCE OF TRAFFIC FLOWS ON EXISTING ROADS**

Unless otherwise provided and paid for separately in the Bill of Quantities, the Contractor is deemed to have allowed in his rates and prices for the costs of maintaining traffic flows on any existing roads until the completion of the Works.

14. **ABBREVIATIONS**

The following units of measurement and abbreviations are used:

<u>Units</u>	<u>Abbreviation</u>
Millimetre	mm
Linear Metre	m
Square Metre	m ²
Hectare	ha
Cubic Metre	m ³
Kilogramme	kg

<u>Units</u>	<u>Abbreviation</u>
Tonne	t
Number	nr
Month	mth
Man-month	man-mth
Kilometre-month	km-mth
Cycle	cycle
Hour	hr
Week	wk
Degree	deg
Provisional Sum	Prov. Sum
Lump Sum	sum
Prime Cost	P.C.

15. All units shall be in metric and for all units in imperial the following conversion shall be used, unless otherwise stated

1 inch	=	25.4 mm
1 foot	=	304.8mm
1 lb	=	0.45 kg
1 cwt	=	50.91 kg
1 ton	=	1.018 tonnes
1 lb/in ²	=	0.0069 N/mm ²
1 ft ³	=	0.0283 m ³
1 gallon	=	4.545 litres
1 gallon/yd ²	=	5.44 litres/m ²

In case where it is difficult to apply the metric units, the SO/PD can use his discretion to use the original names stated in imperial units.

16. **ADDENDUM TO MYCESMM2.**

The following measurement rules and coverage rules shall be read and amended. Notwithstanding such physical alteration may be in conflict or be inconsistent with any of the provision in the printed standard MyCESMM2, the amendments set out herein shall prevail:

Item Reference	Description	MyCESSM2	Preambles & Addendum to MyCESSM2
A200	<u>Engineer/SO/PD/ER Requirements</u>		
A239	<u>Services</u> Provision of Transport Services		
A239.1	Type A : no(s). of motorcycles	-	sum
A239.2	Type B : no(s). of 4 wheel drive	-	sum

Item Reference	Description	MyCESSM2	Preambles & Addendum to MyCESSM2
A500	<u>Contractor Requirements</u>		
	<u>Facilities</u>		
	Establish, construct, maintain and remove upon completion		
A519.1	Office complete with fittings and equipment	-	sum
A519.2	Laboratory complete with fittings and laboratory equipment	-	sum
A519.3	Stores	-	sum
A519.4	Workshop	-	sum
A519.5	Workmen Accommodations	-	sum
	<u>Site Management</u>		
A559	Provide, maintain and removal of supervision, administration and labour team; fixed charges	-	sum

PREAMBLES
BILL NO. 1 - GENERAL ITEMS

PREAMBLES

BILL NO. 1 - GENERAL ITEMS

A100 CONTRACTUAL REQUIREMENTS

BOND

A111 Performance Bond

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment made after verifying authenticity of the Bank/Insurance/Finance Guarantee and upon submission of receipt of the premium paid from the Bank/Insurance/Finance Company as follows:

- (a) In the first interim payment or upon receive the verification, the Contractor shall be paid either the actual premium paid by him upon submission of the receipts or the tendered lump sum for the item whichever is the lesser. The receipts of premium paid must be from the company (Bank/Insurance/Finance Company) issuing the guarantees;
- (b) The remaining sum (if any) shall be paid in each subsequent interim payment in proportion to the progress of the whole works; and
- (c) No payment for this item shall be made if the contractor opts for Performance Guarantee Sum (*Wang Jaminan Perlaksanaan*). Adjustment shall be made during the final account.

A112 Design Guarantee Bond

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made in full after verifying authenticity of the Bank/Insurance/Finance Guarantee and upon submission of receipt of the premium paid from the Bank/Insurance/Finance Company.

INSURANCES

A121 Insurance of Works

A122 Public Liability Insurance

A123 SOCSO / Workmen Compensation Insurance

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made as follows:

- (a) In the first interim payment, the Contractor shall be paid either the actual premium paid by him upon submission of the receipts or the tendered lump sum for the item whichever is the lesser. The receipts of premium paid must be from the insurance company issuing the policies or the authorized underwriter; and
- (b) The remaining sum (if any) shall be paid in each subsequent interim payment in proportion to the progress of the whole works.

STATUTORY OBLIGATIONS

A140 Statutory Obligation

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made as follows:

- (a) The Contractor shall be paid either the actual amount paid by him upon submission of the receipts or the tendered lump sum for the item whichever is the lesser. The receipts of amount paid must be from the statutory bodies to indicate evidence of payments; and
- (b) The remaining sum (if any) shall be paid in each subsequent interim payment in proportion to the progress of the whole works.

Item Coverage

The items shall be deemed to include any fees, permits, deposits or others determined as statutory requirements required by statutes gazetted by the

Government or law regulation or by laws or any order or directive issued by statutory bodies in irrespective of the type of contract to be used for the project as:

- (a) Permits and fees to statutory bodies, authorities' requirements, government agencies;
- (b) Deposit to statutory bodies, authorities' requirements, government agencies;
- (c) Inclusive of item A420 and A430 of MyCESMM2 (if not stated); and
- (d) **This item shall not include CIDB levy required under Construction Industry Development Board Act 1994.**

A200 SO/PD REQUIREMENTS

FACILITIES

A211 Establishment and Removal of Office

A213 Establishment and Removal of Laboratories

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment (purpose built / relocatable type) shall be made as follows:

- (a) 80% on completion of the facilities as specified; and
- (b) 20% on removal.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Provision and preparation of facilities / sites / premises;
- (b) Foundations and bases;
- (c) Fences, hoarding, notice and direction boards;
- (d) Vehicle access, hardstanding, parking area and foot paths;

- (e) Office/Laboratories furnishing, fittings, supplies and initial consumable stores;
- (f) Provision of telephones and extensions, telephone lines and internet facilities and/or any communication facilities;
- (g) Water and electricity supplies, sanitation, water filter / water dispenser, air conditioning, safety measures and lighting fittings;
- (h) Compliance with local building by-laws;
- (i) Depreciation of buildings, furnishings and fittings;
- (j) Receiving back from the SO/PPD and removing buildings, furniture, fittings and supplies off site;
- (k) Disconnecting and removing services and sealing off disused services;
- (l) Demolishing and removing off site vehicle access, hardstanding, parking areas, footpath, fences, notices and direction boards;
- (m) Disposal of surplus materials;
- (n) Reinstatement of the facilities / sites / premises; and
- (o) Removal and disconnecting of telephone and extensions, telephone lines and internet facilities and/or any communication facilities.

A212 Maintenance of Office

A214 Maintenance of Laboratories

Unit

The unit shall be on Month (mth).

Measurement

The payment shall be made in each interim payment commencing upon when the SO/PPD facilities is made available and payment shall be made in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PPD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Rental charges for land / premises, telephone rental and charges on telephone calls, internet facilities and/or any communication facilities;
- (b) Fees and charges levied by the respective authorities and maintenance of electricity and water supplies, lighting, water filter / water dispenser, safety measures, sanitation, air conditioning and sewerage disposal;
- (c) Maintenance of buildings, services, fences, notice and direction boards, vehicle access, parking areas, hardstanding and footpaths;
- (d) Maintenance of furnishings and fittings and supplies;
- (e) Maintenance of telephones and internet facilities including telephone and internet bills or any communication facilities;
- (f) Cleaning accommodation including pest control;
- (g) Moving and re-establishing portable office accommodation up to a maximum of three (3) moves as required by the SO/PD;
- (h) Replenishment of consumable stores; and
- (i) Maintenance of all access for use under all weather conditions.

EQUIPMENT

A221 Establishment and Removal of Office Equipment

- (i) Computer
- (ii) Photocopy Machine
- (iii) Digital / Video Camera
- (iv) Facsimile Machine
- (v) Printer
- (vi) Scanner
- (vii) LCD projector & screen
- (viii) Any other equipment not listed above

A223 Establishment and Removal of Laboratory Equipment

A225 Establishment and Removal of Surveying Equipment

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made upon the supply and delivery of the equipment on site or to the SO's/PD's office accordingly to the number of equipment required which have met the acceptance criteria in the Contract.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Provision, delivery to SO's/PD's office and commissioning of equipment inclusive of accessories, peripherals, stationeries, consumable items and safety measures;
- (b) In the case of computers, the original and legal copies of software as specified;
- (c) In the case of facsimile machine, the provision of telephone line and connection;
- (d) Installation and calibration of the equipment;
- (e) Depreciation;
- (f) Removal from the SO's/PD's office and revert back to the Contractor upon issuance of the Certificate of Practical Completion; and
- (g) Receiving back from the SO/PD and removing equipment off site.

A222 Maintenance of Office Equipment

A224 Maintenance of Laboratory Equipment

A226 Maintenance of Survey Equipment

Unit

The unit shall be on Month (mth).

Measurement

The payment shall be made in each interim payment commencing upon when the equipment is made available in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Maintenance of all equipment and accessories to a working order condition;
- (b) Provision of suitable replacement when the regular equipment is not available for more than 24 hours;
- (c) Rental charges;
- (d) Payment for telephone charges / bills for faxes, internet connection and/or any communication facilities provided for the equipment;
- (e) Repair cost and cost of replacement in case of breakdown;
- (f) Regular servicing of all equipment; and
- (g) Provision and replenishment of consumable items.

SERVICES

A239 Provision of Transport Services

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made in each interim payment commencing upon when the transport service is made available accordingly to the number of transports required which have met the acceptance criteria in the Contract and payment shall be made upon commencement of the service until the issuance of the Certificate of Practical Completion.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Provision of the vehicle together with comprehensive insurances and road tax for every vehicle;
- (b) Vehicle/s is/are accident free;
- (c) Certification from PUSPAKOM at every six months;
- (d) Transport is readily available for the use of SO/PD or SO's / PD's staff;
- (e) Taxing for use on public highway and for carriage of goods and samples;

- (f) Comprehensive insurances to cover all drivers and passengers and the carriage of goods and sample;
- (g) Provision of suitable replacement including equipment when regular vehicle is not available or unserviceable for more than 24 hours;
- (h) Maintenance in a roadworthy condition and in conformity with the vehicle manufacturer's recommendations;
- (i) Toll charges, fuel, oil and lubricant;
- (j) Validity of road tax;
- (k) Keeping the vehicles clean inside and out;
- (l) Provision of drivers shall include;
 - i. The wages, subsistence allowances and other emoluments paid to the drivers including payment for overtime;
 - ii. Working outside the Contractor's normal working hours if so required by the SO/PD;
 - iii. Cost and expenses incurred consequent upon the employment or hiring of the drivers including payment of Employee Provident Fund, insurance, medical and hospitalisation; and
 - iv. Replacement of incompetent or unsuitable personnel.

ATTENDANCE

A242 Survey Assistants

A243 Laboratory Assistants

A245 Security Guards

Unit

The unit shall be on Man month (man-mth).

Measurement

The payment shall be made in each interim payment commencing upon when the attendance is made available and payment shall be made in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) The wages, subsistence allowances and other emoluments paid to the operative including payment for overtime;
- (b) Working outside the Contractor's normal working hours if so required by the SO/PD;
- (c) Cost and expenses incurred consequent upon the employment or hiring of the operative including payment of Employee Provident Fund, insurance, medical and hospitalisation; and
- (d) Replacement of incompetent or unsuitable personnel.

SUBMISSION OF DOCUMENTS

A251 Project Execution Plan

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment for the project execution plan shall be made upon submission and approval by the SO/PD.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) The costs of literatures, references and consultation in production of the project execution plan.

A252 Drawings

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made progressively upon submission and approval by the SO/PD and when works is properly executed in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Preparation and submission of drawings (shop drawings or working drawings) to amplify the detail requirements of the Work;
- (b) The cost of literatures, references and consultation on/in production of the shop drawing or working drawing including certification from Professional Engineer with Practising Certificate (PEPC); and
- (c) Submission of the drawings to SO/PD in computer medium (Auto-Cad and PDF format as approved by SO/PD) and printed hard copies.

A253 Method Statement

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made progressively upon submission and approval by the SO/PD and when works is properly executed in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) The cost of literatures, references and consultation in the production of the work method statement.

A254 Works Programme

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made in each interim payment in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Item on implementing the CPM programme for planning of resources and progress of work and should include:
 - (i) Trained and qualified personnel to maintain and update the programme;
 - (ii) Planning of resources and progress of work using the CPM programme; and
 - (iii) Providing software for JPS, which is to be retained by JPS after the completion of the project.
- (b) Carry out regular check of progress including updating all information and maintain the planned programme periodically or as and when instructed by the SO/PD;
- (c) Submission of the work programme to JPS in computer medium (Microsoft Project / Primavera / others software as approved by SO/PD) and printed hard copies periodically or as and when instructed by the SO/PD;
- (d) Identification of critical path for the timely execution of the work to completion; and
- (e) A detailed programme which would identify the requirements of every possible resource for the successful implementation of at least six (6) months of work to assist associated activities planning.

MISCELLANEOUS

A261 Progress Report

Unit

The unit shall be in Month determined by the number of set on Month (mth).

Measurement

The payment shall be made in each interim payment commencing upon submission and approval by SO/PD and payment shall be made in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Taking measures and computation;
- (b) Keeping of records;
- (c) Compilation;
- (d) Processing and writing of report;
- (e) Colored printing and binding;
- (f) Dispatching;
- (g) Submission of monthly performance reports;
- (h) Progress report in softcopy and hardcopy which includes proofs, slides and progress photographs in suitable album;
- (i) Supply and delivery of the progress reports to the SO's / PD's office;
- (j) Identification marking on the prints and slides of the progress photographs;
- (k) Mounting for display record purposes as directed by the SO/PD; and
- (l) Quality guaranteed photograph.

A262 Project Signboard

Unit

The unit shall be in Number (nr).

Measurement

The payment shall be made as follows:

- (a) 60% on completion of installation;

- (b) 20% on maintenance in proportion to the progress of the whole works; and
- (c) 20% on removal.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Excavation in any material including rock and reinforced concrete and loading into transport, upholding the sides and keep the earthworks free of water;
- (b) Backfilling and compaction;
- (c) Support;
- (d) Formwork;
- (e) In-situ concrete;
- (f) Disposal of surplus material;
- (g) Painting, high intensity reflectorizes aluminium sheeting and illumination;
- (h) Cleaning, maintaining and repairing;
- (i) Erection, dismantling and removing from site;
- (j) Reinstatement of surfaces; and
- (k) Payment of all charges including obtaining permission, licenses and fees etc.

A263 As-Built Drawings

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made upon submission (progressively) and approval by the SO/PD in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Preparation and submission of as-built drawings for approval by the SO/PD as specified in the specification;
- (b) Providing labour, tools and equipment necessary to take measurement and obtaining such information on site as are required by the SO/PD for the preparation of as-built drawings;
- (c) Confirming correctness of as-built drawings;
- (d) Preparation of monthly periodic updating as work progress for inspection by SO/PD;
- (e) The cost of producing as-built drawing includes certification from Professional Engineer with Practising Certificate (PEPC)/ Licensed Surveyor; and
- (f) Submission of the as-built drawings to JPS in computer medium (Auto-Cad and PDF format as approved by SO/PD) and printed hard copies.

A264 Video Recording

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made in each interim payment in proportion to the progress of the whole works commencing upon when the video recording is made available and accepted by the SO/PD.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Aerial Photography and Aerial Video capture of work progress using Drone or Unmanned Aerial Vehicle (UAV) including narration;
- (b) Submission of monthly video recordings;
- (c) Video recordings in softcopy to be submitted to the SO's office; and
- (d) Quality guaranteed video recordings.

A265 Temporary Fencing and Hoarding

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made as follows:

- (a) 20% on erection of structure;
- (b) 60% on maintenance in each interim payment in proportion to the progress of the whole works; and
- (c) 20% on removal of structure.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Supply, erect, maintain and remove on completion of the Works, adequate, protective and security hoarding and such other safety measures necessary to ensure the safety of the workers, personnel, public and others at or within the vicinity of the Site, all as specified in the specification and approved by S.O and local authorities.

A300 PROJECT REQUIREMENTS

SURVEY AND SETTING OUT

A310 Survey and Setting Out [By Licensed Surveyor].

The contractor shall employ a Licensed Surveyor to carry out site surveys before commencement and setting out of the works or from time to time as the need arise. Appointment of Licensed Surveyor shall be approved by the SO/PD. The Contractor shall obtain approval by the SO/PD if there are any changes in the appointment of Licensed Surveyor.

All survey plans i.e. setting out, interim and final survey plans shall be certified by the approved Licensed Surveyor.

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made as follows:

- (a) 40% on completion of setting out and approval of survey drawing submitted;
and
- (b) 60% in each interim payment in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Survey instruments and equipment required by the survey;
- (b) Installation and calibration and maintenance of instrument and equipment;
- (c) Depreciation;
- (d) Provide suitable replacement when the regular instrument is not available for more than 24 hours;
- (e) Replenishment of consumable stores;
- (f) Maintenance of instrument and equipment to a working order condition;
- (g) Surveyors, chainmen and attendance;
- (h) All materials required for establishing and maintaining survey stations, benchmarks and the like (e.g., installation of precast concrete reference beacons including safeguarding by fencing and concreting-in where necessary and replacement of damaged beacons);
- (i) All attendance required and setting-out records and data required for the Works;
- (j) Maintain all survey and setting-out records and data required for the Works;
- (k) Demarcate on site limit of R.O.W.;
- (l) Verify existing benchmarks and reference markers;
- (m) All detailed survey and setting out required for the Works;

- (n) Submission of Drawings; and
- (o) Topographical survey etc. which are not included in the Contract Drawing.

QUALITY ASSURANCE (QA) / QUALITY CONTROL (QC) PLAN

A321 QA / QC Plan

The contractor is to submit a full set of QA/QC Plan as required and approved by the SO/PD.

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made in each interim payment in proportion to the progress of the whole works commencing upon when the report is made available and accepted by the SO/PD.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Preparation and submission to the SO/PD properly documented QA/QC plan according to work procedures set in the current Department of Irrigation and Drainage (DID) Manual and in accordance to JPS Guidelines for Inspection & Testing; and
- (b) Submission of monthly reports incorporating all test results, test certificates, photographs and lab report for testing of material (incoming inspection), testing of work (in-process testing), manufacturer's test and factory acceptance test (FAT).

A322 Testing of Materials

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made progressively upon submission and approval by the SO/PD and when testing is properly executed in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Submission of monthly reports incorporating all test results;
- (b) Test certificates;
- (c) Photographs; and
- (d) Lab report for testing of material.

A323 Testing of Works

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made progressively upon submission and approval by the SO/PD and when testing is properly executed in proportion to the progress of the whole works.

Item Coverage

The item shall be deemed to include the SO/PD requirements, as per General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Submission of monthly reports incorporating all test results; and
- (b) Photographs for testing of works.

A324 Factory Acceptance Test (FAT)

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment for FAT shall be made upon submission of the test results of the said materials throughout the contract period.

Item Coverage

The item shall be deemed to include the type of test to be carried out, the number of persons to witness the test and submission of test results.

A325 Testing and Commissioning

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made upon completion of the testing carried out throughout the contract period until the completion of the project.

Item Coverage

The item shall be deemed to include man hours, mobilization, demobilization, competent personnel, specific tools and all other required items to operate fully functional. The item shall be performed and fulfilled in accordance with relevant authorities, project's requirement and specifications.

CLEARANCE OF SITE UPON COMPLETION

A360 Clearing of Site Upon Completion

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made in the last interim payment upon clearing up of site to the satisfaction of the SO/PD.

Item Coverage

The item shall include:

- (a) Clear and clean the works including existing roads, drains bounding the site of any debris, earth and make good all damages upon completion as specified;
- (b) Clearing and grubbing of all trees, stumps, roots, logs, shrubs, grass, weeds, fallen timber and other surface litter, wherever they occur within the right-of-way and within such other areas as directed and staked out by SO/PD;
- (c) Reinstatement of damaged area due to any work and temporary work carried by the Contractor to its original condition; and
- (d) Disposal of surplus material, waste and etc.

TEMPORARY WORKS

- A371 Traffic Diversion**
- A372 Traffic Regulation**
- A373 Access Roads**

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment for the provision, maintenance and removal of temporary works shall be made progressively upon approval by the SO/PD and when works is properly executed in proportion to the progress of the whole works.

Item Coverage

The item shall include:

- (a) Making arrangements with owners and occupiers of land temporarily acquired and costs arising thereof;
- (b) Providing and maintaining landowner's access and pedestrian right-of-way including site preparation, footpath, fencing, signs, drainage, gates, disposal of surplus materials and any costs arising from interference to construction operations;
- (c) Preparing, amending and submitting to the SO/PD and other interested parties, drawings showing proposals and programme including liaison;
- (d) Preparation of site;
- (e) Carriageways, ramps, structures, footways if any;
- (f) Unless otherwise stated, temporary diversions of services, sewers and drains;
- (g) Modification to suit change in ground conditions;
- (h) Maintenance of temporary crossings;
- (i) Breaking up crossings;
- (j) Unless otherwise stated, reinstatement of the site to its original condition; and

(k) Disposal of surplus material.

The items for maintenance of temporary crossings within Site shall include:

- (a) Patching of potholes;
- (b) Clearing of the drainage system;
- (c) Abatement of noise and spread of dust;
- (d) Keeping existing road clean and clear of any much slurry, boulder, earth deposited in the course of works;
- (e) Reinstatement the road damaged due to any work carried out by the Contractor to its original condition;
- (f) Preparing of site;
- (g) All plants and labours necessary; and
- (h) Preparation of lines and staging requirements in connection with services diversions.

This work shall include all materials, tools, equipments and labours incidental thereto, also all necessary approaches, unless otherwise noted on the plans or in the special provisions, maintenance of the structure and approaches, removal of the structure and approaches and cleaning up of the site upon completion of the work.

A374 Bridges

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment for the provision of design, construct, maintenance and removal of temporary bridge shall be made progressively upon approval by the SO/PD and when works is properly executed in proportion to the progress of the whole works.

Item Coverage

The item shall include design, construction, maintenance and removal of temporary bridges and shall include all labours, plants, materials etc. and the payment shall include:

- (a) Design and proposed shop drawing with endorsed by Professional Engineer with Practising Certificate (PEPC) to be submitted and approved by SO/PD;
- (b) Site preparation including all necessary excavation, handling, disposal of excavated spoils and debris;
- (c) Supply, install and construct temporary bridge including piling works, bridge structures, bridge accessories, drainage, sheet piles and other related works;
- (d) Site clearance, fencing, safety barriers, concrete safety barriers, earthworks, drainage, pavement, kerbs, footways, traffic signs, road markings, road furniture and accesses;
- (e) Maintenance of temporary crossing bridge;
- (f) Construct river diversion (if necessary); and
- (a) Removal of and reinstatement of the site upon completion

A375 Cofferdams

A376 Pumping

A377.1 De-Watering

A377.2 De-Watering including Controlled De-Watering

Unit

The unit shall be in Lump Sum (sum).

Measurement

The measurement for payment shall include provision of all labours, plants, material and etc. for the design, construct, maintenance and removal temporary works from site and payment shall be made progressively upon approval by the SO/PD and when works is properly executed in proportion to the progress of the whole works.

Item Coverage

The item shall include design, construction, maintenance and removal of temporary works and shall include all labours, plants, materials etc. and the payment shall include:

- (a) Preparing and supply of detailed working drawing and shall be endorsed by Professional Engineer with Practising Certificate (PEPC);

- (b) Supply, construct and maintain the stability of temporary cofferdams including interlocking sheet pile, walling and strutting, and other related works during construction period and remove upon completion;
- (c) Supply, install and maintain pumping and dewatering during construction period and remove upon completion;
- (d) Excavation, handling, disposal of excavated spoils and debris, dewatering, shoring, levelling, driving, allowing for access way platform, staging and all other necessary works for the purpose of construction of abutments and/or* piers;
- (e) Removal of all temporary works upon completion; and
- (f) Reinstatement of site to its original condition.

A400 AUTHORITIES'S REQUIREMENTS

LICENSE TO CONTRAVENE

A440 License to Contravene

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made as follows:

- (a) The Contractor shall be paid either the actual amount paid by him upon submission of the receipts or the tendered lump sum for the item whichever is the lesser. The receipts of amount paid must be from the issuer.

A500 CONTRACTOR'S REQUIREMENTS

FACILITIES

A519 Contractor's Facilities

A519.1 Office and Office Equipment

A519.2 Laboratory and Laboratory Equipment

A519.3 Stores

A519.4 Workshop

A519.5 Workmen Accommodations

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment for establishment, maintenance and removal contractor's facilities shall be made as follows:

- (a) 40% on establishment of the facilities as specified;
- (b) 40% on maintenance in each interim payment in proportion to the progress of the whole works; and
- (c) 20% on removal

Item Coverage

The item for establishment and removal of Contractor's facilities shall in accordance with the General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Preparation of site, foundations, bases, hard standings;
- (b) Water, sanitation, power, lighting and communication systems;
- (c) Fences, hoardings, notices and direction boards, vehicle access, parking areas and footpaths;
- (d) Buildings and accommodation including payment of fees and other charges;
- (e) Depreciation of buildings and accommodation, office equipment, laboratory equipment, furniture and fittings;
- (f) Medical and first aid facilities;
- (g) Safety equipment and clothing;
- (h) Telephone line/extension and switchboard/Private Automatic Branch Exchange (PABX), radio communication and others (if related);
- (i) Layout drawings for the approval of the SO/PD;
- (j) Getting approval from the relevant statutory authority;

- (k) Dismantling and removal of all buildings, fences, notices and direction boards, office equipment, etc.;
- (l) Disconnection and removal of services and sealing-off disused services; and
- (m) Disposal of surplus materials and reinstatement of site to its original condition.

The item for maintenance of Contractor's facilities shall in accordance with the General Preambles and Preambles to Bill of Quantities include:

- (a) Any costs incurred in the use of the land;
- (b) Rental charges (where applicable);
- (c) Fees and charges for water, power, sewage disposal and communication systems (inclusive internet charges);
- (d) Maintenance of all buildings, vehicle access, parking areas, hard standings and footpaths;
- (g) Cleaning;
- (h) Provision of transport services; and
- (g) Replenishment of consumables stores and sanitary facilities.

The item for provision of office and laboratory equipment shall in accordance with the General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Provision, delivery and commissioning of equipment and accessories/peripherals. The Laboratory shall be accredited and approved by Jabatan Standard Malaysia. The Laboratory shall be equipped with the necessary equipment and staff required to carry out the tests; and
- (b) Removal of the office and laboratory and its equipment upon issuance of the Certificate of Practical Completion.

SITE MANAGEMENT

A559 Site Management

Supervision (including Site Agents and QA/QC Officer)

Administration

Labour Team

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made in each interim payment in proportion to the progress of the whole works.

Item Coverage

The item shall be in accordance with the General Preambles and Preambles to Bill of Quantities and shall include:

- (a) The wages and other emoluments paid to the site agent and other personnel necessary for the Works;
- (b) Working outside the Contractor's normal working hours if so, required by the SO/PD;
- (c) Costs and expenses incurred consequent upon the employment or hiring of the site agent and all other personnel including payment of Employee Provident Fund, insurance, medical and hospitalisation;
- (d) Replacement of unsuitable site agent and other personnel; and
- (e) Substitution of superintendent when the appointed site agent is absent or on leave for more than three (3) consecutive days.

MOBILISATION AND DEMOBILISATION

A560 Mobilisation and Demobilisation

Unit

The unit shall be in Lump Sum (sum).

Measurement

The payment shall be made as follows:

- (a) 60% on completion of mobilisation; and
- (b) 40% on completion of demobilisation.

Item Coverage

The item for mobilisation of construction plant and equipment shall be in accordance with the General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Transport to site including loading and unloading at ports and site, places of assembly in Malaysia or other sites to the sites where they are to be used on the works;
- (b) Obtaining any import licenses/permits;
- (c) All taxes, import duties and other fees; and
- (d) Assembling, erection and installation.

The item for demobilisation of construction plant and equipment shall be in accordance with the General Preambles and Preambles to Bill of Quantities and shall include:

- (a) Dismantling;
- (b) Transport from site including loading and unloading at ports and site; and
- (c) Obtaining any export licenses/permits.

**STANDARD BILL OF QUANTITIES
BILL NO. 1 - GENERAL ITEMS**

BILL NO. 1 - GENERAL ITEMS

No.	Code No.	Description	Unit	Qty.	Rate (RM)	Amount (RM)
	A100	<u>CONTRACTUAL REQUIREMENTS</u>				
		<u>Bond</u>				
	A111	Performance Bond; Banker's/ Insurance/ Financial Institution Guarantee*	sum			
	A112	Design Guarantee Bond (for stand alone design to be designed by the Contractor)	sum			
		<u>Insurances</u>				
	A121	Insurance of Works	sum			
	A122	Public Liability Insurance	sum			
	A123	SOCSSO/Workmen Compensation Insurance	sum			
		<u>Statutory Obligations</u>				
	A140	Compliance with law, regulations or by laws, or any statutory requirements required by statutes gazetted by the Government or any order or directive issued by statutory bodies	sum			
	A200	<u>SO/PD REQUIREMENTS</u>				
		<u>Facilities for the SO/PD/SO's/PD's Representative</u>				
	A211	Establishment and Removal of Office [with a floor area of**m2] as per specification	sum			
		OR				
	A211.1	Relocatable Type (new/used)* [with a floor area of **m2]	sum			
		OR				
	A211.2	Rental of Premises [with a floor area of** m2]	sum			
	A212	Maintenance of Office	mth	#		
		Page Total carried to Summary of Bill No. 1				

* Delete where not applicable

** Designer to decide which is applicable

Duration to be inserted by tenderer based on tendered period

BILL NO. 1 - GENERAL ITEMS

No.	Code No.	Description	Unit	Qty.	Rate (RM)	Amount (RM)
	A200	<u>SO/PD REQUIREMENTS (cont')</u>				
		<u>Facilities for the SO/PD/SO's/PD's Representative (cont')</u>				
	A213	Establishment and removal of [e.g. purpose built] laboratories [with a minimum floor area of** m2 as shown in Drawing]	sum			
	A214	Maintenance of Laboratories	mth	#		
		<u>Equipment</u>				
	A221	Establishment and Removal of Office Equipment				
		Provision of office equipment [with type and quantity as per specification]. Equipment to be reverted to the Contractor after completion				
		a) **no(s). of Computer.	sum			
		b) **no(s). of Photocopy Machine	sum			
		c) **no(s). of Digital / Video Camera	sum			
		d) **no(s). of Facsimile Machine	sum			
		e) **no(s). of Printer	sum			
		f) **no(s). of Scanner	sum			
		g) **no(s). of LCD projector & screen	sum			
		h) **no(s). of others**	sum			
	A222	Maintenance of Office Equipment	mth	#		
	A223	Establishment and Removal of Laboratory Equipment as per specification [with type and quantity as per specification]. Equipment to be reverted to the Contractor after completion	sum			
	A224	Maintenance of Laboratory Equipment	mth	#		
	A225	Establishment and Removal of Survey Equipments [with type and quantity as per specification]. Equipment to be reverted to the Contractor after completion	sum			
	A226	Maintenance of Survey Equipment	mth	#		
		Page Total carried to Summary of Bill No. 1				

* Delete where not applicable

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BILL NO. 1 - GENERAL ITEMS

No.	Code No.	Description	Unit	Qty.	Rate (RM)	Amount (RM)
	A200	<u>SO/PD REQUIREMENTS (cont')</u>				
		<u>Services</u>				
	A239	Provision of Transport Services as per specification				
	A239.1	Type A :**no(s). of motorcycles	sum			
	A239.2	Type B :**no(s). of 4 wheel drive	sum			
		<u>Attendance</u>				
	A242	Survey Assistant(s) [.....**nos.]	man-mth	#		
	A243	Laboratory Assistant(s) [.....**nos.]	man-mth	#		
	A245	Security Guard(s) [.....**nos.]	man-mth	#		
		<u>Submission of Documents</u>				
	A251	Project Execution Plan	sum			
	A252	Drawings	sum			
	A253	Method Statement	sum			
	A254	Works programme [in Microsoft Project/Primavera** on a Gantt Chart format] and required personnel to update the programme as per specification	sum			
		<u>Miscellaneous</u>				
	A261	Progress report [in ** sets], including progress photograph	mth	#		
	A262	Project signboard as per drawing	nr			
	A263	As built drawings as per specification	sum			
	A264	Video recording [in..... ** copies], including aerial photography and aerial video using Drone or Unmanned Aerial Video (UAV)	sum			
	A265	Temporary fencing and hoarding	sum			
		Page Total carried to Summary of Bill No. 1				

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BILL NO. 1 - GENERAL ITEMS

No.	Code No.	Description	Unit	Qty.	Rate (RM)	Amount (RM)
	A300	<u>PROJECT REQUIREMENTS</u>				
		<u>Survey and Setting Out</u>				
	A310	Survey and setting out [by licensed surveyor]	sum			
		<u>Quality Assurance/Quality Control (QA/QC)</u>				
	A321	QA/QC Plan as per specification	sum			
	A322	Testing of materials; [e.g. concrete test cubes][state type of samples and method of testing**] all as per specification	sum			
	A323	Testing of works [state type of samples and method of testing**] all as per specification	sum			
	A324	Factory acceptance test for [state the type of test to be carried out]** for [nos. of person(s)** of the SO/PD's Representatives	sum			
	A325	Testing and commissioning for [state the material to be tested and type of test**]	sum			
		<u>Clearance of Site Upon Completion</u>				
	A360	Clearance of site upon completion as per specification	sum			
		<u>Temporary Works for Site Access</u> Construct, maintain and remove all temporary works for access to site; fixed charge as per detailed stated;				
	A371	Temporary traffic diversion for existing road inclusive temporary road diversion [for site access] as specification	sum			
	A372	Traffic regulations [for traffic diversion to the existing road] [for site access] as specification	sum			
	A373	Temporary access road [for site access] [as per drawing no.]	sum			
		Page Total carried to Summary of Bill No. 1				

* Delete where not applicable

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Duration to be inserted by tenderer based on tendered period

BILL NO. 1 - GENERAL ITEMS

No.	Code No.	Description	Unit	Qty.	Rate (RM)	Amount (RM)
	A300	<u>PROJECT REQUIREMENTS (cont')</u>				
		<u>Temporary Works for Site Access (cont')</u> Construct, maintain and remove all temporary works for access to site; fixed charge as per detailed stated;				
	A374	Temporary bridges [for site access] [as per drawing no.....]	sum			
	A375	Temporary cofferdams [for site access] [as per drawing no.]	sum			
	A376	Pumping [at site access] as per specification	sum			
	A377.1	De-watering [at site access] as per specification	sum			
	A377.2	De-watering [at site access] as per specification including controlled de-watering	sum			
	A400	<u>AUTHORITIES' REQUIREMENTS</u>				
		<u>License to contravene</u>				
	A440	License to contravene for (.....)	sum			
	A500	<u>CONTRACTOR'S REQUIREMENTS</u>				
		<u>Contractor's Facilities</u>				
		Item shall be deemed to include the provision of water supply, electricity, and sanitary facilities and their continuing operation and/or maintenance and removal.				
	A519	Establish, construct, maintain and remove upon completion as per detail stated; fixed charges;				
	A519.1	Office complete with fittings and equipment	sum			
	A519.2	Laboratory complete with fittings and laboratory	sum			
	A519.3	Stores	sum			
	A519.4	Workshop	sum			
	A519.5	Workmen Accommodations	sum			
		Page Total carried to Summary of Bill No. 1				

* Delete where not applicable

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BILL NO. 1 - GENERAL ITEMS

No.	Code No.	Description	Unit	Qty.	Rate (RM)	Amount (RM)
	A500	<u>CONTRACTOR'S REQUIREMENTS (cont')</u>				
		<u>Site Management</u>				
	A559	Provide, maintain and removal of supervision, administration and labour team; fixed charges as per detail	sum			
		(a) Minimum**no.(s) Project Manager				
		(b) Minimum**no.(s) Engineers				
		(c) Minimum**no.(s) Supervisors				
		(d) Minimum**no.(s) Clerk				
		(e) Minimum**no.(s) Site agent				
		(f) Minimum**no.(s). QA/QC Officer				
		(g) Minimum**no.(s)**				
		<u>Mobilisation and Demobilisation</u>				
	A560	Mobilisation and demobilisation excluding piling and other specialist work(s) (rate to include remobilisation); fixed charge	sum			
		Page Total carried to Summary of Bill No. 1				

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Duration to be inserted by tenderer based on tendered period

BILL NO. 1 - GENERAL ITEMS

No.	Code No.	Description	Unit	Qty.	Rate (RM)	Amount (RM)
		<p>Summary of Bill No. 1 : General Items</p> <p>Page BQ1 - 1/7</p> <p>Page BQ1 - 2/7</p> <p>Page BQ1 - 3/7</p> <p>Page BQ1 - 4/7</p> <p>Page BQ1 - 5/7</p> <p>Page BQ1 - 6/7</p>				
		Total of Bill No. 1 carried to Summary of Tender				

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*** Designer to decide which is applicable*

Duration to be inserted by tenderer based on tendered period

JABATAN PENGAIRAN DAN SALIRAN MALAYSIA

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