BAHAGIAN BANGUNAN DAN PEMELIHARAAN
KEMENTERIAN HAL EHWAL UGAMA
NEGARA BRUNEI DARUSSALAM

TAWARAN SEBUT HARGA

BIL. SEBUT HARGA: KHEU / BDP / 164 / 002 / 2026

TERM CONTRACT FOR FIRE PROTECTION MAINTENANCE FOR ESTATE UNDER PUSAT DA'WAH ISLAMIAH FOR A PERIOD OF SIX (06) MONTHS

TARIKH TUTUP TAWARAN : 28 Januari 2026 **Jam** 2.00 PM

Syarat-syarat untuk mengikuti tawaran kerja sebut harga adalah seperti berikut :

1. Tawaran hanyalah dipelawa kepada syarikat / pemborong yang berdaftar dengan Kementerian Pembangunan **Kelas** I, II, III, IV & V dan **Kategori** KPME05 **SAHAJA** di Negara Brunei Darussalam.

2. Tawaran-tawaran mestilah dibuat di atas borang-borang tawaran yang tercetak oleh Kementerian ini dan penerangan lanjut bagi mengikuti sebut harga bolehlah datang terus ke **Unit Penyelaras dan Pemantauan Projek, Bahagian Bangunan Dan Pemeliharaan, Bangunan Pasar Basah, Jalan Residency, BS8111, Kementerian Hal Ehwal Ugama, Negara Brunei Darussalam.**

3. Bagi Syarikat / Pemborong yang berminat untuk mengikuti tawaran sebut harga hendaklah mengikut proses-proses pembelian tawaran sebut harga seperti berikut:

   i. Syarikat / pemborong hendaklah menyertakan salinan **Sijil Pendaftaran 16 dan 17** yang dikeluarkan oleh Bahagian Pendaftaran Syarikat-Syarikat, Jabatan Peguam Negara, Negara Brunei Darussalam dan juga menyertakan salinan **Sijil Pendaftaran Kontraktor Dan Pembekal, Kementerian Pembangunan, Negara Brunei Darussalam** yang masih sah laku.

   ii. Syarikat / pemborong hendaklah membuat pembayaran **BS5.00** di **Bahagian Kewangan, Tingkat 1, Kementerian Hal Ehwal Ugama** atau melalui ***BIBD Online Payment*** bagi pembelian tawaran sebut harga.

   iii. Setelah membuat pembayaran dan mendapatkan **Resit Pembayaran** bagi pembelian tawaran sebut harga, syarikat / pemborong hendaklah **memuat turun (*download*)** dokumen tawaran sebut harga di **laman sesawang Kementerian Hal Ehwal Ugama: https://www.mora.gov.bn/SitePages/Senarai%20Sebutharga.aspx.**

4. Borang-borang tawaran sebut harga hendaklah diisi dengan lengkap dan memasukkannya ke dalam sampul surat yang bertutup rapi **('Sealed Envelope')** dengan menyertakan Salinan **Resit Pembayaran, Sijil Pendaftaran 16 dan 17 dan Sijil Pendaftaran Kontraktor Dan Pembekal, Kementerian Pembangunan** serta menulis **Bilangan Tawaran, Nama Tawaran dan Tarikh Tutup** tanpa membubuh sebarang pengenalan atau identiti syarikat atau pemborong.

5. Semua tawaran hendaklah dimasukkan ke dalam

Peti Kotak Sebut harga
Tingkat 1 Bahagian Kewangan,
Bangunan Ibu Pejabat
Jalan Menteri Besar
Kementerian Hal Ehwal Ugama
Negara Brunei Darussalam

6. Tawaran yang diterima lewat dari tarikh dan masa yang telah ditetapkan atau tawaran yang tidak lengkap, tidak akan dilayan atau diterima dan ianya tidak sah.

7. Kerajaan Kebawah Duli Yang Maha Mulia Paduka Seri Baginda Sultan Dan Yang Dipertuan Negara Brunei Darussalam melalui Kementerian Hal Ehwal Ugama, Negara Brunei Darussalam, tidak akan terikat untuk memilih sebarang tawaran yang lebih murah atau yang difikirkan tidak munasabah.

(SUSILIZAH BINTI KADIR)
Pmk. Ketua Bahagian Bangunan dan Pemeliharaan
Kementerian Hal Ehwal Ugama
Negara Brunei Darussalam

S.k. Pengerusi Jawatankuasa Sebut harga, KHEU

MINISTRY OF RELIGIOUS AFFAIRS
JALAN MENTERI BESAR, BERAKAS BB33910
NEGARA BRUNEI DARUSSALAM

QUOTATION NO.: KHEU / BDP / 164 / 002 / 2026

PROJECT : TERM CONTRACT FOR FIRE PROTECTION MAINTENANCE FOR ESTATE UNDER PUSAT DA'WAH ISLAMIAH FOR A PERIOD OF SIX (06) MONTHS

CLASS : I, II, III, IV & V

CATEGORY : KPME05

CLOSING DATE : WEDNESDAY 28 JANUARY 2026 NOT LATER THAN 2.00 PM

SUBMISSION : PETI KOTAK SEBUT HARGA
TINGKAT 1 BAHAGIAN KEWANGAN
BANGUNAN IBU PEJABAT
JALAN MENTERI BESAR
KEMENTERIAN HAL EHWAL
NEGARA BRUNEI DARUSSALAM

TABLE OF CONTENT

** - Buang jika tidak perlu*

TERMS AND CONDITIONS OF TENDERING (FOR QUOTATION WORKS)

1. Before tendering, the tenderer shall visit the site where the Works are to be carried out and shall also carefully examine the relevant Terms and Conditions of Contract, Drawings, Specification and all other accompanying schedules, etc.

   If there is any ambiguity in or discrepancy between any of the documents, he / she should refer the matter to the Contract Administrator (C.A.), Building and Maintenance Section, Ministry of Religious Affairs. The C.A's decision shall be final and binding upon the Contract.

   On tendering, the tenderer shall be deemed to have examined the documents referred to above and shall be bound by the terms and conditions therein.

2. Every tenderer must submit together all documents listed below and this requirement shall be strictly adhered to prior to any consideration :-

   (a) Copy of Reciept payment for the Quotation document from the Finance Section, Ministry of Religious Affairs.
   (b) Valid Tenderer's Registration Certificate from the Ministry Of Development.
   (c) Business Enactment Act Section 16 & 17.
   (d) The Tender Form **MUST be signed by the Owner, or the Director of Shareholder(s) of the Company** stating their post and stamped with the Company's Official seal as detailed in the Business Enactment Act Section 16 & 17 / or the tenderer's Registration Certificate from the Ministry of Development.
   (e) The address indicated must be detailed as in the Business Enactment Act Section 16 & 17 / and/or Tenderer's Registration Certificate from the Ministry Of Development. Any changes to the above must be officially referred to the Registrar of Companies and Business Names and a copy must be submitted to this department.

   Tender documents must be duly completed, signed and dated written in **blue ink ONLY**. Any tender which is incomplete or unsigned will render the tender to be rejected.

3. (a) Tenders and documents in connection therewith as specified above , must be delivered to the place at or before the time specified.
   (b) In the case of the tender not being delivered by hand, the tenderer must arrange for his / her tender and other documents to be posted in time to reach the stipulated place by not later than the time stated.
   (c) In no case will the Government be responsible for any expense or loss incurred by a tenderer in the preparation of this tender.

   Tenders shall remain valid for **3 MONTHS** from the final date for submission of the tenders and no tenderer may withdraw his/her tender within that period. The Government reserves the right to extend this period if deemed neccessary provided that such extension of the tender validity period shall have the written consent of the tenderers.

4. The Government does not bind itself to accept the lowest and/or any tender and no reason will be given for rejecting any tender thereof.

5. Every correspondence to be given to a tenderer may be posted to the tenderer's address in the tender and such posting shall be deemed good and legally binding in service of such correspondence.

6. The tender shall be made on the basis of the rates in the tender documents being firm and not subject to any adjustment with variations in quantities.

7. The tender fee shall be **B$ 5.00** . Payment shall be made at Finance Section, 1st Floor, Ministry of Religious or BIBD Online Payment.

8. No unauthorised alteration or use of 'correction pen' in the tender documents is allowed, or the tender may be rejected. Any errors are to be struck off and initialled.

9. Non-compliance with the above terms and conditions in any respect may render the tender liable to be rejected.

10. The tender must be done in the **OFFICIAL PRINTED** tender forms which is available from the **Ministry of Religious Affairs official website: https://www.mora.gov.bn/SitePages/Senarai%20Sebutharga.aspx**

    The completed tender documents are to be lodged on or before 2.00 **PM on** 28 Januari 2026 **in a sealed enveloped addressed to:-**

    TENDER / QUOTATION (QTN) BOX

    PETI KOTAK SEBUT HARGA
    TINGKAT 1 BAHAGIAN KEWANGAN
    BANGUNAN IBU PEJABAT
    JALAN MENTERI BESAR
    KEMENTERIAN HAL EHWAL
    NEGARA BRUNEI DARUSSALAM

    The top part of the sealed envelope must be written stating the following :-

    Quotation No. : **KHEU / BDP / 164 / 002 / 2026** **Quotation Closing Date :** 28 Januari 2026

    Project Title : **TERM CONTRACT FOR FIRE PROTECTION MAINTENANCE FOR ESTATE UNDER PUSAT DA'WAH ISLAMIAH FOR A PERIOD OF SIX (06) MONTHS**

BUILDING AND MAINTENANCE SECTION
MINISTRY OF RELIGIOUS AFFAIRS
NEGARA BRUNEI DARUSSALAM

Quotation For : **TERM CONTRACT FOR FIRE PROTECTION MAINTENANCE FOR ESTATE UNDER PUSAT DA'WAH ISLAMIAH FOR A PERIOD OF SIX (06) MONTHS**

Quotation No. : KHEU / BDP / 164 / 002 / 2026 **Closed on :** 28 Januari 2026 **Receipt No. :** _____

PART A - AGREEMENT

1.0 On behalf of _____ I, the undersigned, agree to carry out the above Works / Service / Supply * for a sum of B$ _____ (Brunei Dollars) _____

(or),

At Schedule of Rates attached subject to the adjustment percentage of an additional (+) / a deduction (-)* _____ % with an approximate Maximum Contract Sum as stated in PART C - APPENDIX Item 6.0.

And,

within the Contract Period 6 ~~Days~~ / ~~Weeks~~ / Months * in accordance with the terms and conditions below below.

2.0 Owner / Director*'s Signature & Name : _____ ( )
IC No. : _____

2.1 Signature & Name of Witness : _____ ( )
IC No. : _____

2.2 Company Address : _____

B

Company Stamp

2.3 Tel. No. : _____ Fax No. : _____
2.4 Date : _____ Email : _____

Note : An asterisk * indicates text that is to be deleted as appropriate

PART B - TERMS OF QUOTATION

1.0 BASIS OF QUOTATION, OVERALL OBLIGATIONS AND ADMINISTRATION

1.1 Overall Obligations of the Government:

1.1.1 To provide access at proper times for the Contractor to do his work.
1.1.2 To provide all information and facilities stated in this Contract to enable the Contractor to do his Works.
1.1.3 To pay the Contractor as provided in this Contract.
1.1.4 To assign a Contract Administrator to administer this Contract.
1.1.5 May take out or renew collateral warranty and insurance as referred to in Clause 1.2.3 and Clause 1.2.4 below if the Contractor fails to do so.

1.2 Overall Obligations of the Contractor:

1.2.1 To finish the Works to the quality standards provided in this Contract within the Completion Date(s) and Contract Period provided in this Contract.
1.2.2 To cooperate with all other Contractors working on the project and not to disrupt them or cause damage to their Works.
1.2.3 To provide a collateral warranty containing a similar obligation as under this Contract directly to a third party if requested by the Contract Administrator.
1.2.4 To provide and maintain valid Contractor's all risks insurance policy at all times.

1.3 Instructions, Certifications & Job Orders

1.3.1 The Contract Administrator can issue instructions and certifications including Job Orders to the Contractor on anything relating to the Works.
1.3.2 All instructions, certifications and Job Orders must be in writing, dated and clearly identified as Contract Administrator's Instructions, Certifications and Job Orders.
1.3.3 For each Job Order, the Contract Administrator must state a commencement date and a reasonable date for its completion and the Contractor must complete each Job Order by that completion date.
1.3.4 The minimum and maximum of any one Job Order to be issued as stated in the Appendix Item 5.0 and the maximum to be issued must be capable of being carried out and completed within the Contract Period.
1.3.5 The Contractor must comply with all instructions, certifications and Job Orders issued by the Contract Administrator.
1.3.6 The Contract Administrator may arrange others to complete the Works if the Contractor fails to comply with Clause 1.3.5, and the Contractor shall pay for all extra costs incurred.

2.0 QUALITY, HEALTH, SAFETY AND ENVIRONMENT

2.1 Quality

2.1.1 The Contractor must do his Works based on the documents referred to in this Contract and other instructions and information given to him by the Contract Administrator.
2.1.2 If any of the Works is not done according to this Contract or if there is any other breach of this Contract by the Contractor, the Contract Administrator shall inform the Contractor of the shortfall(s) in writing. The Contractor must rectify the shortfall(s).
2.1.3 If the Contractor does not rectify the shortfall(s), the Contract Administrator may arrange others to rectify the shortfall(s). The Contract Administrator can also certify either:

(a) The cost of rectifying such shortfall(s); or
(b) The reduced value of the completed Works due to such shortfall(s)

as provided in the Payment Certification Clause.

2.1.4 The Contract Administrator can continue to do this throughout the project and during the Defects Liability Period (as stated in the Appendix Item No. 3.0) after the Contract Administrator confirms the Works is complete as provided in the Completion Clause.

2.2 Health, Safety And Environment

2.2.1 The Contractor must keep the site clean and safe at all times.
2.2.2 The Contractor must comply with all laws and regulations relating to Health, Safety and Environment Act, if any.

3.0 TIME OBLIGATIONS

3.1 Starting, Progress and Finishing

3.1.1 If not stated in this Contract, the Contract Administrator will inform the Contractor when to start work in writing. The Contractor shall not be entitled to claim for any loss or damage caused by any delay of possession of site.
3.1.2 The Contractor must progress with the Works in a regular and diligent manner.
3.1.3 The Contract Administrator can instruct the Contractor to stop and restart at any time.
3.1.4 The Contractor must finish all the Works within the Completion Date(s) stated in this Contract or as instructed by the Contract Administrator.

3.2 Adjusting Time for Completion

3.2.1 If the Government or Contract Administrator or anyone within either of their responsibility or control (which includes other Contractors on site), or anything beyond the Contractor's control, disrupts the Contractor from finishing within the completion period, the Contract Administrator must assess the impact of this disruption on the Contractor's Works.

3.2.2 If any Completion Date(s) is affected the Contract Administrator must adjust the Completion Date(s).

3.2.3 This must be done in a written certificate clearly identified as Extension of Time Certificate.

3.3 Completion

3.3.1 When the Contractor practically completed all the Works, he shall inform the Contract Administrator stating he has completed.

3.3.2 The Contract Administrator must decide when the Works has actually practically completed by the Contractor.

3.3.4 The Contract Administrator must decide when all obligations of the Contractor are fully discharged.

3.3.5 This decision must be in a written certificate clearly identified as a Final Completion Certificate.

3.3.6 This must be done after the end of Defects Liability Period (as stated in the Appendix Item No. 3.0) or when the Contractor has rectified all the shortfall(s) including Works that is not according to this Contract and any other breach of Contract by the Contractor identified by the Contract Administrator, whichever is later.

3.4 Delayed Completion

3.4.1 If the Contractor does not finish by the date stated in the Contract or Job Order, he shall pay Liquidated and Ascertained Damages due to the delay to the Government as provided in the Payment Certification Clause.

3.4.2 Liquidated Damages is calculated for delay between when the Contractor should have completed the Works and when he actually completed the Works.

4.0 VARIATIONS TO WORK

4.1.1 The Contract Administrator can issue instructions to vary the Works to be done.

4.1.2 If the Contract Administrator instructs the Contractor to vary any of the Works and there is a financial impact, the Contract Administrator must certify the value of the variation work as provided in the Payment Certification Clause.

4.1.3 The Contract Administrator must value the variation work using the Summary of Works rates and/or adjusted Schedule of Rates. If neither are available then using fair market rates.

4.1.4 This shall be done in a written certificate clearly identified as Variation Order certificate.

5.0 PAYMENT CERTIFICATION

5.1 Claims and Payment Certificate

5.1.1 The Contractor must submit a claim for the Works done before any payment certificate can be issued.

5.2 Contents of Payment Certificate:

5.2.1 The payment certificate must include the following:
Add the following:

(a) Cumulative value of the Works done. This is valued based on Summary of Works rates and/or adjusted Schedule of Rates, if any. If none, then valued based on fair market rates.

(b) Value of variation work properly instructed by the Contract Administrator and properly done by the Contractor.

5.2.2 Deduct the following:

(a) Liquidated and Ascertained Damages which is calculated for delay between when the Contractor should have completed the Works and when he actually practically completed the Works.

(b) The value of any shortfall(s) due to Works done according to this Contract or due to any other breach of this Contract by the Contractor which the Contract Administrator has informed the Contractor. If the Contractor does not rectify the shortfall(s) the Contract Administrator can certify either:

(i) The cost of rectifying such shortfall(s) by others; or
(ii) The reduced value of the completed Works due to such shortfall(s) as stated in the Appendix.

(c) A percentage of the sum of total additions above will be retained (as the Retention Sum) and released after the end of Defects Liability Period or when the Contractor rectified all the shortfall(s) including Works that are not done according to this Contract and any other breach of contract by the Contractor identified by the Contract Administrator.

(d) The Net Amount Payable is the amount the Government must pay to the Contractor. This is calculated by:

(i) Adding the total under additions above;
(ii) Deducting the total of all deductions above; and
(iii) Deducting the cumulative amount certified previously.

(e) The Contract Administrator may deduct any monies owed by the Contractor to the Government under this Contract or any contract(s) from the Contractor's payments.

6.0 TERMINATION OF CONTRACT

6.1 If the Contractor:

(a) Suspends the Works before completion without any reasonable cause; and/or
(b) Fails to proceed with the Works within the time stated in the Contract Administrator's Instructions; and/or
(c) Fails to comply with the Contract Administrator's Instructions;

for fourteen (14) days after a notice sent to the Contractor, the Contract Administrator can determine this Contract by a written notice.

6.2 If the Contractor:

(a) Becomes bankrupt; or
(b) Goes into liquidation; or
(c) Has offered or given or agreed to give to any person any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any action in relation to the obtaining or execution of this Contract with the Government, or for showing on forbearing to show favour or disfavour to any person in relation to this Contract or any other contract with the Government or the like acts shall have been done by any person employed by the Contractor or acting on his behalf (with or without the knowledge of the Contractor), or if, in relation to this Contract or any other contract with the Government, the Contractor, or any person employed by the Contractor or acting on his behalf shall have committed or abetted to commit an offence under the Prevention of Corruption Act (Chapter 131) or section 161, 162, 163, 164, 165, 213, 214 or 215 of the Penal Code (Chapter 22).

this Contract is terminated by a written notice.

6.3 In either (6.1) or (6.2) above, the Contract Administrator may complete the Works by other ways and the Contractor shall pay for all extra costs incurred.

6.4 Termination For Convinience

(a) The Government may at any time, give the Contractor a written notice to terminate the employment of the Contractor under the Contract and the Contractor shall immediately or upon such other date as specified in the written notice;

(i) cease all works under the Contract, which shall include, but be not limited to such work for the purpose of protecting, making safe or tidying up such part of the works as may already have been executed, or may be in the course of execution.
(ii) vacate the site, remove all his plant, tools, equipment, goods and unfixed materials which have not been paid by the Government and handback possession of the site to the Government.

(b) In the event of termination under this Clause, Contract Administrator shall certify the amounts payable to the Contractor and the Contractor shall provide all reasonable assistance to the Contract Administrator. In the event that the Contractor does not submit the necessary information required, the Contract Administrator shall make his certification on the information available. The amount certified shall be paid by the Government less any sums previously paid or due to or recoverable by the Government from the Contractor.

PART C - APPENDIX

1.0	**Completion Date:** (If not stated, to be instructed by the Contract Administrator. If more than one completion period, identify the scope of Works for each completion period) For Term Contract, the Contract shall ends when the following conditions are met: (a) The actual expiration of the Contract Period; or (b) The limit of the Approximate Maximum Total Value of All Job Orders have been reached; Whichever of the above comes first but subject to Clause 3.2 and Clause 4.0.	_____
2.0	**Liquidated and Ascertained Damages (LAD):** (If none stated, then the Contract Administrator may certify a reasonable sum as compensation for delay) $\frac{\text{Total Contract Sum}}{\text{Total Contract Period (No. of Days)}} \times 15\%$	B$ _____ per day
3.0	**Shortfalls / Defects Liability Period:** (If none stated, SIX (6) MONTHS from the date of completion)	_____ Months
4.0	**Retention Sum:** (If none stated, FIVE (5%) PERCENT of the Contract Sum)	_____ % of the Contract
5.0	**Minimum and Maximum Values of Job Orders:** Minimum value of any one Job Order to be issued Maximum value of any one Job Order to be issued (If none stated, the maximum value to be issued must be capable of being carried out and completed within the Contract Period)	≤ B$ _____ ≥ B$ _____
6.0	**Approximate Maximum Total Value of All Job Orders for the Contract Period:** (If not stated, NOT MORE THAN $50,000.00 - BRUNEI DOLLARS FIFTY THOUSANDS) The Contract Administrator gives no warranty or undertaking as to the actual amount of Works that will be issued through Job Orders and no variance in the actual value of Works ordered shall give rise to a change in any rate, price or percentage adjustment.	≤ B$ 20,000.00

BORANG PENGAKUAN
DECLARATION FORM

BILANGAN SEBUT HARGA *(QUOTATION NO.)*	:	**KHEU / BDP / 164 / 002 / 2026**
TAJUK SEBUT HARGA *(QUOTATION TITLE)*	:	**TERM CONTRACT FOR FIRE PROTECTION MAINTENANCE FOR ESTATE UNDER PUSAT DA'WAH ISLAMIAH FOR A PERIOD OF SIX (06) MONTHS**
KEMENTERIAN / JABATAN *(MINISTRY / DEPARTMENT)*	:	

Saya/Kami, (Isikan nama setiap pemilik syarikat/pemegang saham di bawah)
I/We (Fill in all the proprietor/shareholders' name below)

Bil. *No.*	**Nama** *Name*	**No. Kad Pengenalan Brunei & Warna/ No. Paspat Antarabangsa** *Brunei Identity Card No. & Colour/ International Passport No.*	**Tandatangan** *Signature*

Dengan ini membuat PENGAKUAN seperti berikut / *make the following DECLARATION*:

1. Saya/Kami yang bernama diatas, adalah pemilik berdaftar sebuah Firma yang bernama
   I/We as the name stated above, a registered Proprietor of

   _____ , (isikan nama Firma/ *fill in the firm's name*)

   dengan alamat perniagaan di,
   with its place of business at

   _____

   _____

   _____

   (atau/ *or*)

2. adalah pemegang saham dalam sebuah Syarikat yang bernama
   a shareholder in a Company

   _____ , (isikan nama Syarikat/ *fill in the Company's name*)

   dengan alamat perniagaan di,
   with its place of business at

   _____

   _____

   _____

yang ikut serta Sebut harga di atas, dengan ini mengakui bahawa saya atau ahli keluarga saya tidak ada kepentingan dalam lain-lain syarikat yang turut serta menghadapkan tawaran yang sama.
Which participate in the above mention tender, hereby declare that I or any member of my family do not have any interest in the other companies competing for the same tender.

_____
Tandatangan & Cop Syarikat
(Signature & Company Stamp)

DF/1

DECLARATION FORM

BORANG PENGAKUAN
DECLARATION FORM

BILANGAN SEBUT HARGA *(QUOTATION NO.)*	:	**KHEU / BDP / 164 / 002 / 2026**
TAJUK SEBUT HARGA *(QUOTATION TITLE)*	:	**TERM CONTRACT FOR FIRE PROTECTION MAINTENANCE FOR ESTATE UNDER PUSAT DA'WAH ISLAMIAH FOR A PERIOD OF SIX (06) MONTHS**
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   I/We as the name stated above, a registered Proprietor of

   _____ , (isikan nama Firma/ *fill in the firm's name*)

   dengan alamat perniagaan di,
   with its place of business at

   _____

   _____

   _____

   (atau/ *or*)

2. adalah pemegang saham dalam sebuah Syarikat yang bernama
   a shareholder in a Company

   _____ , (isikan nama Syarikat/ *fill in the Company's name*)

   dengan alamat perniagaan di,
   with its place of business at

   _____

   _____

   _____

yang ikut serta Sebut harga di atas, dengan ini mengakui bahawa saya atau ahli keluarga saya tidak ada kepentingan dalam lain-lain syarikat yang turut serta menghadapkan tawaran yang sama.
Which participate in the above mention tender, hereby declare that I or any member of my family do not have any interest in the other companies competing for the same tender.

_____
Tandatangan & Cop Syarikat
(Signature & Company Stamp)

SPECIFICATIONS

SPECIFICATIONS

ADDRESSABLE FIRE ALARM SYSTEM

a. General

The fire alarm system shall be Brunei Fire Rescue Department (BFRD) or Bomba approved type.

The Control Panel shall be capable to have a log memory at least for the last 200 events.

The Control Panel shall come complete with built-in specified printer. It shall come complete with zonal display option.

The following fire safety standards to be complied: -

- BS EN 54
- BS 5389 : Part 1

The control panel to be approved, tested and certified by the following governing bodies: -

- VdS Testing Authority
- Loss Prevention Council (LPC) Technical Specification

Main Voltage	230V / 50 - 60Hz
Power Supply Unit	12V / 3.5A
Operating Voltage	9 - 19 VDC
Quiescent Current Consumption	maximum 150 mA
Emergency Power Supply	12V, 2 x 12Ah (2 x 24 Ah in extension housing
Operating Temperature	0°C to 50°C
Weight	Approximate 6.5kg (w/o batteries)
Ingress Protection	IP 30
Msximum Number of loops per panel	7
Standby Period	24 hours + 30 minutes alarms, upgradeable to 72 hours

It is the responsibility of the Contractor to submit to the Superintending Officer all the necessary manufacturer's brochures, catalogue, specification for their approval prior for the installation of the Control Panel.

Generally, all wiring works shall be done by an approved Electrical Contractor. All wiring works shall refer to Standard Schedule of Rates for Ministry of Education, Section M.

All installation works shall be in accordance to the manufacturer's latest manual, catalogue and technical flysheets/specification.

FIRE ADDRESS / DETECTOR EQUIPMENT

b. Beam Detectors

The beam detector used to be the type of reflective infrared beam smoke detector.

The maximum no of reflector(s) to be used shall not exceed 4 Nos. (1 to 4) depending on the distance of coverage from the detector.

The detector is to be built-in with microprocessor.

The detector shall be capable to carry out system adjustment, compensation due to variation in ambient data and judgment of fire & fault through fixed algorithm with indication by LED and signal output terminals.

The sensitivity of the detector is to be field adjustable hence, increasing the product range of application.

Technical Specifications: -

Operating Voltage	24VDC
Operating Voltage	Standby Current: < 12mA
	Alarm Current: < 22mA
Detection Range	Length from 8m to 100m
Monitoring Area	Maximum Area: 14m x 100m = 1400m$_2$
	Maximum Width: 14m
Wiring	Non-Polarized Two-Core 24VDC
	Non-Polarized Two-Core Detection Loop
Operation Environment	Temperature: - 10°C ~ + 50°C
	Relative Humidity: < 92%
Casing Material	ABS

c. Fireman Intercom System

The fire alarm control panel shall be constructed as a wall mounted unit to IP42 rating using 1.6mm thick steel sheet sections suitably reinforced. The panel shall be fitted with a lockable front door with a transparent viewing panel or alternatively in the absence of a door, a key switch operation is required to disable the control keys.

The fire alarm panel shall incorporate a sequential polling system which polls each device individually and transmits or read information from it. The information is compared with all possible fire patterns in the software (algorithms) and a decision made as to the status of the device (pre alarm, fire, short/open circuit fault, incorrect addressing, unauthorized device removal orexchange, detector contaminated or normal) and events annunciates. The System polling time shall not exceed 1 second for each complete scan of all devices attached.

The system shall be capable of accommodating alterations/extensions without the need for relabeling (i.e. allocation of address shall be independent of the physical arrangement in the loop). The labelling shall be stored in a non-erasable memory within the control panel. The wiring works to be of return loop arrangement and the panel shall be able to be configured in multiple loops.

The loops shall be capable of accepting a minimum of 99 devices, which shall include fire detectors, break glass, contacts such as sprinkler flow switches (with delay timer incorporated), alarm sounders, interfere for trip delays, solenoid valves and other evacuation/alarm system.

d. Detectors

All electronic circuits and devices in the detectors shall be hermetically sealed to protect from dust, dirt or humidity. All circuitry shall be protected against electrical transients and electromagnetic interference while the sensor element is protected against dust and vermin. The detectors shall be compensated by temperature, humidity and barometric changes.

The detector shall be of low-profile, small footprint, aesthetically pleasing off white appearance. Detectors shall be loop wired and loop powered using a two-wire screened cable. The sensitivity of addressable detectors shall be individually adjustable from the control panel.

Every detector base shall have a short circuit isolating device. It shall be possible to measure and display the detector sensitivity at the control panel. The detector shall incorporate a identification code and self-test function, which shall be reported to the panel. If the detector is removed or the wrong type of detector is plugged in or the data returned is incompatible as compared to the database in the control panel, it must be enunciated at the control panel.

All detectors and devices should have a clear visual marker externally attached (Transfer tape or equivalent) stating the zone number followed by the point number.

e. Thermal Detector

Thermal detectors shall comply with BS 5445: Part 5 for installation in normal environments and BS 5445: Part 8 for high ambient temperatures. Thermal detectors shall have rate of rise and fixed temperature thermal detectors shall be used if specially shown in the drawings.

f. Smoke Detector

The smoke detector shall be in accordance with BS 5445: Part 7 and Part 9.

Photoelectric type detectors shall respond to visible smoke concentrations and shall consists of a light source in a labyrinth chamber, such that no light normally reaches the sensor, but the presence of smoke scatters the beam and activates the sensor. Alternatively, sensors based on the obscuration principle may be used.

g. Sounders (Alarm Bell / Sirens)

The bell shall generally be 150mm diameter pressed steel dome shaped type.

The sirens shall be made either with pressed steel or high impact ABS.

Sounder shall be finished in red colour and shall be mounted at a height of2250mm above finished floor level.

Sounder installed externally shall be weatherproof.

Bells shall sound at least 95dB at 1.0m and sirens 100dB at 1.0m when activated. The Contractor shall check the sound levels, which shall be 65dB or 5dB above the background noise all over the protected area, whichever is higher.

The sounders shall be able to produce three different tones (alert with 1 sec on and 1 sec off, continuous tone for evacuate and a user defined tone for specialized events) that are totally in phase and hence clearly distinguished from one another. The output of all sounder shall be synchronized with one another.

h. Manual Call Point

The call point shall be of the break glass type, with casing finished signal red. The lettering "Fire Break Glass" shall be inscribed or printed on a thin plastic film laminated on the exterior surface of the glass. The call point shall be electrically compatible with the standard range of automatic detectors so that it can be connected directly into a addressable supervised two-wire zone. The call point shall comply to BS 5839: Part 2. It shall be possible to test the manual call point with the use of the test key provided and without breaking the glass or removing the cover. Call points shall be flush mounted directly onto conduit junction boxes at a mounting height of 1400mm above finishes floor level to the centre of the call point. Where call points required additional protection, they shall be supplied with a hinged transparent polycarbonate cover with the wordings "Lift cover before breaking glass". Call points exposed to the weather shall be provided with weather gaskets.

HOSEREEL SYSTEM INSTALLATION

a. Hose

The hose shall be made of continuous non-kinking reinforced rubber hose complying with BS 3169; Type A fitted with a shut-off-type nozzle by means of steel cadmium plated hose clips.

The nozzle shall be made of corrosion resisting metal material. It shall be adjustable for jet and spray pattern with complete shut-off. The nozzle shall be in compliance with BS 336.

The length of hose shall be 30m and 25mm bore with 6.5mm discharge nozzle. The hose shall be suitable for operation at a maximum working pressure of 1600 kpa.

The discharge nozzle and isolating gate valve shall be easily accessible; in no case shall be more than 900mm above the finished floor level.

b. Reel

Reel shall be of double swivel type unless otherwise indicated on the drawings.

Drum shall be constructed of 1.6mm thick pressed steel free from denting and twisting and finished in red epoxy polyester paint. The hub and shaft shall be of brass, fitted with a device to prevent over run of the hose, having glandless centre seal.

In case of fixed type reels, a swivel hose guide with swing-arms of nylon rollers or similar material shall be provided adjacent to enable the hose to be pulled in any direction as required. Every reel shall be marked with the following information in a prominent position:

a. Manufacturer's name and trade mark.
b. Instruction for operation and use should include the following:-
    i. Turn on stop valve to release nozzle
    ii. Run-out hose
    iii. Turn on water at nozzle
    iv. The year of manufacture
    v. The test pressure of hose in kpa The whole assembly of hose and reel shall be in compliance with BS EN 671.

The hosereel shall achieve a throw of 6m at 0.41/s with an input pressure of 150 kpa.

Where reel cabinets are specified, they shall be of steel construction (1.6mm) with a wire glass from labelled "Fire hosereel" in letters 50mm high in Malay and English. The door shall be fitted with a spring lock.

SPRINKLER SYSTEM

a. Sprinkler Heads

The Contractor to supply and install sprinkler heads of the type and finish as described in the Work Orders and in the drawings.

Sprinklers shall generally be of the glass bulb type with a temperature rating 68oC and shall be colour coded. Higher temperature sprinklers shall be used where specified. Sprinklers shall generally be selected with a temperature rating which is 30oC higher than the anticipated temperature.

The nominal orifice size thread size K factor and thermal sensitivity ratings shall as per the requirements of LPG Technical Bulletin TB: 20:1994:1 in accordance with the specified class of hazard. All sprinklers shall be marked with the make, model number and year of manufacture.

The type and finish of sprinkler used shall generally be as follows:

i.	Upright Sprinkler	- For use to protect areas above the ceiling and where there are no ceilings. The sprinkler to be installed upright with the deflector above the frame and providing an umbrella shaped downward spray.
ii.	Pendant Sprinkler	- A standard spray sprinkler installed with the deflector below the frame and forming an umbrella shaped downward spray.
iii.	Conventional Sprinkler	- A sprinkler providing a spiracle spray with about 60% of water, directed downward and aportion upward.
iv.	Vertical Sideway (upright or pendant)	- A sprinkler installed vertically near a wall and near the ceiling and providing a quarter spherical pattern spray.
v.	Horizontal Sidewall	- A sprinkler installed horizontally near a wall and near the ceiling and providing a quarter spiracle pattern spray.
vi.	Extended Coverage Sprinkler	- A special sprinkler providing an extended coverage.
vii.	Quick Response Sprinkler	- A sprinkler with a fast actuating operating element.
viii.	Flush Sprinkler	- A pendant decorative sprinkler intended for installation with a concealed piping. The operating element is exposed below the ceiling. A decorative surface mounted escutcheon plate is to be provided.
ix.	Recessed Sprinkler	- A pendant sprinkler intended for installation with a concealed piping and decorative adjustable recessed escutcheon.
x.	Concealed Sprinkler	- The sprinkler shall be hidden from view by a solder link cover plate installed flush with the ceiling. The sprinkler assembly shall be a two piece type which permits the cover to be installed later while also providing a 15mm adjustmentto allow easy installation of the cover.
xi.	Dry Pendant Sprinkler	- A sprinkler for use in cold rooms and areas subject to freezing. The unit shall consist of a pendent sprinkler permanently secured to an extension nipple which has a sealed inlet and to prevent water entering the nipple until the sprinkler operates.

WET RISER SYSTEM

a. General

This section of the specification is to cover the supply, installation, testing and commissioning of the wet riser system including piping, breeching inlets, pressure reducing landing valves, hoses, pumps, control panels and all other accessories to complete the system as specified and as shown in the drawings and in accordance with BS 5306: Part 1.

b. Pumps

The main wet riser pumps shall be a back pull out end suction centrifugal pump, while the jockey pumps shall be a vertical inline multistage centrifugal pump. Refer to "Pumps" section for detailed specification.

c. Pipework / Fittings

Refer to "Pipes and Fittings" section for detailed specification.

d. Valves and Gauges

Refer to "Valves and Gauges" section for detailed specification.

e. Breeching Inlets

The fire services inlet shall have 4 instantaneous coupling connections. Each inlet consists of 64mm instantaneous male coupling and a back pressure valve. Valves shall be protected by a cap secured by a short chain. A 25mm diameter drain valve shall be incorporated to facilitate drainage. The breeching inlet shall be enclosed in a suitable wire glass fronted box with spring locks and signage "WETRISER INLET TANK INLET" in Malay and English.

The breeching inlets and boxes should conform to requirements of BS 5041: Part 3 and Part 5.

f. Landing Valves

The landing valve for wet risers to comply with the requirements of BS 5041: Part 1 and of bronze/brass construction. They shall be purpose made fitting(screwed and socketed), with 65mm instantaneous female coupling outlet fitted with a removable plug secured by a chain. The valves shall be of renewable disc type and suitable for a test pressure of 22.5 bars. The pressure reducing springs shall be steel construction and the setting should be extremely adjustable. The handle shall be at least 165mm diameter with the direction of opening and closing permanently embossed.

The valves shall be protected by and enclosed within a cupboard or a box conforming to the requirements of BS 5041: Part 4. Every landing valve shall be kept shut with a padlock and leather strap. The padlocks used shall be of master – key type.

g. Hose and Gradle

Each landing valve to be provided with a 30m long 65mm diameter hose. The hose shall be fitted with a male instantaneous coupling at the inlet end and a light alloy/bronze/brass jet nozzle at the outlet end. The nozzle shall be in compliance with BS 336.

The hose shall be a rubber lined polyester fibre, circular weave hose capable of withstanding an operating pressure of 17 bars and a bursting pressure of 37 bars and in conformances with BS 6391: Type 1. The hose shall be neatly folded into a hose cradle fitted to the wall within the riser.

VALVES AND ACCESSORIES

a. General

The section covers the supply, installation, testing and commissioning of all valves and accessories. Valves and accessories shall be supplied and installed as shown on the drawings.

All valves shall be constructed and applied in accordance with the relevant British Standards and shall be fitted in accessible positions for operation and repair.

All stop valves shall be right handed and shall have indication whether the valve is open or shut. The controlling wheel must have markings of the direction on how the wheel is to be turned to close the valve. Valves shall generally be arranged to close on clockwise rotation of the hand wheel.

The connection between each valve and the adjacent equipment shall be made with a union for sizes up to 50mm or a flange, (BS4504) for ease of dismantling.

Before installation, all valves shall be blown to remove any foreign matter that might have lodged in them.

Valves spindles shall be adequately lubricated with graphite and all glands shall be freshly packed before installation.

The size of the valves shall be of the same diameter as the pipe for which they are to fit except for pressure reducing and control valve which shall be designed for the duty concerned.

All valves shall be suitable for the working and test pressure of the system in which they are installed and shall be of approved manufacture as per basic equipment standards and shall be of the same manufacture.

All valves and accessories shall be able to withstand a minimum operating pressure of 10 bars and a test pressure of 15 bars (PN 10).

Each valve shall be provided with a brass identification plate which indicates the valve number, area served and usage.

Each valve shall also have on it an identification of the make, model and service pressure rating. Valves larger than 65mm shall be fitted with an indicator plate to clearly indicate if the valve is in the open or close position.

b. Stop Valves

All fittings shall be provided with a screw down brass or chrome stop valve complying with BS 1010. Alternatively, if specified a quarter turn ball valve shall be used. Ball valve shall comply with BS ### c.

Gate Valves

Gate valves less than 50mm diameter shall comply to BS5154 and shall be constructed from copper alloy. Valves less than 50mm diameter may be with threaded ends while larger valve shall use flanged to BS 10.

Valves larger than 65mm diameter shall be of double flanged cast iron body construction to BS 5150 with non-rising stem and solid gunmetal wedge.

Valves handles shall be of similar materials as the valve body and should be easily removable with a tool to prevent unauthorized use.

Gate valves shall also comply with BS 5151 while globe valves shall comply with BS 5152.

c. Sluice Valves

Sluice valves shall be clockwise closing, cast iron construction, non-rising spindle, solid wedge type gate, BS 10 flanged valve, complying with the requirements of BS 5163. The valves shall be supplied with iron caps and operating keys.

The wedge and face shall be of gunmetal construction while the spindle shall be of high tensile bronze construction. Valves shall be coated in accordance with BS 4147.

d. Butterfly Valves Butterfly

valves shall comply with BS 5155. The valves shall be of cast steel body and shall be double flanged water type designed to give a tight shut off with renewable nitrile rubber sealing rings and nylon coated bronze discs with stainless steel shaft.

Valves up to 150mm diameter shall be fitted with a 10-position locked lever handle, while larger valves shall be provided with a worm gear type hand wheel with position indicators and limit stops.

e. **Check Valves Check**

valves of 50mm diameter and below shall be with threaded ends and of copper alloy construction and shall comply with BS 5154. Check valves shall be spring assisted non-slam type. Check valves larger than 50mm diameter shall be of cast iron construction, double flanged or wafer type complying to BS 5153. Checked valves shall be of non-slam, centre guided, spring assisted, disc type.

f. **Pressure Relief Valve Pressure relief**
valves shall be of the fully spring-loaded type in accordance with BS 1271 and shall be installed in locations as shown on the drawings.

g. **Air Valves Air**
valves shall be 25mm single and 50mm double orifice valves incorporating a screw on isolating valve. Body of air valve shall be cast iron to BS 1452. Floating ball and valve shall be stainless steel to BS 970: Part 4 Grade 303 S21 and float shall be stainless steel to BS 1449: Part 2 Grade 316. Air valves shall be coated in accordance to BS 4147: 1980 Type 1. The discharge of air valves shall be piped to the nearest drain.

h. **Ball Float Valve Ball**
valve of 25mm diameter and below shall be of copper alloy construction equilibrium diaphragm type complying with BS 1212: Part 2 and have copper floats to BS 1968.

Valves larger than 25mm diameter shall be of cast iron construction and with piston type valve complying with BS 1212: Part 1 and have copper float complying with BS 1968.

A silencing pipe shall be fitted at the discharge of all float valves.

i. **Strainers**

Strainers of 50mm diameter and below shall be with threaded ends and of copper alloy construction while larger strainers up to 300mm diameter shall be of double flanged cast iron construction. Strainers shall be of the "Y" pattern.

Strainer cages shall be of 22 S.W.G 18/8 stainless steel and have 0.8mm perforations, the free area of which shall be not less than 5 times the cross- sectional area of the pipe and shall be easily remove for maintenance. Valves larger than 150mm shall incorporate basket type strainers and shall incorporate a drain cock.

j. **Pressure Regulating Valves Pressure regulating**

valves shall be provided at the incoming supply line and elsewhere as shown on the drawings and shall comply with BS 6494.

The pressure reducing mechanism should be able to regulate the pressure within the set limit irrespective of flow rate or incoming water pressure fluctuations. Manual adjustment of the setting should be possible and an inlet and outlet pressure gauge should be provided to facilitate setting.

Ball valve of 25mm diameter and below shall be of copper alloy construction diaphragm type complying with BS 1212: Part 2 and have copper floats to BS 1968. Valves larger than 25mm diameter shall be of cast iron construction and with piston type valve complying with BS 1212: Part 1 and have float complying with BS 1968.

k. Flexible Coupling

Piping connections to all pumps and all equipment shall be by means of wire and fabric reinforced moulded high pressure convoluted rubber connectors. The fittings shall have integral rubber flanges and be bolted onto the pipe lines using flanges for 50mm diameter and larger. Smaller coupling shall utilize a screw connection.

FIRE EXTINGUSHERS

a. General

All the supplied portable fire extinguisher and fire blanket shall be to the approval of Brunei Fire Rescue Department (BFRD) or Bomba.

The extinguisher to be hung or hooked or securely placed on galvanized iron brackets fastened to wall, partition or column in a suitable conspicuous and accessible position.

All fire extinguishers to be installed at height of 1.0m from the floor level to the handle unless otherwise stated.

b. ABC Dry Powder Fire Extinguisher

The dry powder shall be a safe and versatile extinguishant ideally suited for high risk environments. The dry powder medium shall be non-conductor of electricity. The headcap shall be corrosive resistant and shall ensure ultimate fluidization of the powder prior to commencement of discharge. The powder extinguishers shall be designed and constructed in accordance to BS 5423.

c. CO2 Extinguisher

This shall be an efficient fire extinguishing medium. It shall smother flames and reduce the oxygen content of air around the fire, thus ensuring extinction. It shall be non-conductive and effective against fire in electrical plant. The extinguisher shall be of aluminium alloy with swivel horn applicator unless otherwise stated. The CO2 extinguisher shall be designed and constructed in accordance with BS 5423.

d. Water CO2 Extinguisher

This shall have a long-life operating efficiency. A special protective coating to prevent corrosion to the containers made of polyethylene base coating shall be applied. The extinguisher bodies shall be prefabricated from steel sheets which are preformed and welded together. The neck rims shall be machined copper plated steel components welded into position on the tops of the extinguisher bodies. Caps shall be of Lexan and hoses shall be of PVC with moulded polycarbonate nozzle.

e. **Powder and Foam Fire Extinguisher on Trolley EN 1866**

Working Pressure: 14 Bar Cylinder
Test Pressure: 25 Bar
Discharge hose length: 6m
Finishing: Red
Operating Temperature: -20°C to 60°C (Powder), 1°C to 60°C (Foam)

f. **Mobile Foam Fire Extinguisher on Trolley**

Performance Data

Inp Pressure at Inductor	Total Water Flow	Foam Produced	Approximate running tim (min) Inductor Setting		Flor Throw from Branch pipe
Bar	Litre/min	Litre/min	3%	6%	m
5	180	1800	22	11	14
6	197	1970	20	10	
7	213	2130	18	9	17
8	228	2280	17	8.5	
10	255	2550	16	16	20

g. **Portable Dry Powder Fire Extinguisher MS1539**

Propellant	STORED PRESSURED TYPE (NITROGEN)				
Capacity, Kg.	1.0	2.0	4.0	6.0	9.0
Working Pressure, Bar (PSI)	12 (174)	14 (203)			
Test Pressure, Bar (PSI)	25 (362.5)				
Discharge Time, Sec	6-10	8-12	12-16	21-26	20-28
Overall Height, mm	340.0	390.0	475.0		560.0
Cylinder Diameter, mm	84.5	109.5	157.0		176
Overrall Weight, Kg	1.9	3.3	7.8	9.3	12.7
Body Material	Cold Roll Steel				
Standard	Manufactured and approved tp MS1539 Part 1				
Paint Finish	Red				
Fire Rating	5A 21B	8A 34B	13A 70B	21A 144B	27A 144B
Carton Box Size, mm					
Type of Extinguishant	ABC Powder (Ammonium Phosphate)				
Type of Fire	A,B,C,E				

h. Portable Carbon Dioxide Fire Extinguisher MS1539

Material	Carbon Steel	
Capacity, Kg.	2.0	5.0
Working Pressure, Bar	60.0	
Overall Height, mm	525.0	700.0
Cylinder Diameter, mm	115.0	150.0
Cylinder Test Pressure, Bar	250.0	
Discharge Time, Sec	12-16	18-24
Standard	Manufactured and approved to MS1539 Part 1	
Overall Weight, Kg	9.8	17.0
Paint Finish	Red	
Fire Rating	21B	55B
Operating Head	Brass	
Type of Extinguushant	Cabon Dioxide	
Type of Fire	B,C	

i. BS EN3 CO2 Type Fire Extinguisher

Extinguisher Type	2kg	5kg	2kg	5kg
Material	Steel	Steel	Aluminium	Aluminium
Fire Rating	34B	55B	34B	55B
Operating Temperature	-20°C to 60°C			
Operating Pressure	50 Bar at 20°C			
Cylinder Specification	1997/23/EC			
Height	625mm	770mm	575mm	695mm
Full Weight	8.4kg	15.8kg	6.1kg	15.2kg
Empty Weight	6.4kg	10.8kg	4.1kg	10.2kg
Discharge Time	14 Secs	15 Secs	14 Secs	15 Secs
Range of Throw (approx.)	4 - 5 M	4 - 5 M	4 - 5 M	4 - 5 M

j. BS EN3 Powder Type Fire Extinguisher

Propellant	STORED PRESSURED TYPE (NITROGEN)					CO2 CARTRIDGE		
Capacity, Kg.	1.0	2.0	3.0	6.0	9.0	6.0	9.0	12.0
Fire Rating	8A, 34B	14A, 89B	21A, 113B	34A, 233B	34A, 233B	34A, 233B	43A, 233B	55A, 233B
Operating Temperature	-20°C to 60°C							
Working Pressure, Bar (PSI)	12 (174)	14 (203)				12 (174)	14 (203)	
Overall Height, mm	340	390	475		560	340	390	475
Test Pressure, Bar (PSI)	25 (362.5)					25 (362.5)		
Discharge Time, sec	6-10	8-12	12-16	21-25	20-28	6-10	8-12	12-16
Range of Throw (approx.)	4 - 5 M	4 - 5 M	5 - 6 M	5 - 6 M	5 - 6 M	7 - 6 M	8 - 6 M	9 - 6 M

SCHEDULE OF FIXED RATES

ITEM	DESCRIPTION	UNITS	RATE $
	BIL NO 1		
1.0	**PRELIMINARIES**		
	Supply all labour, equipment, materials and tools including transportation to do the following supply/ installation/ maintenance / repairworks to its good operational conditions and to current good practice and make good to all works distributed to match the existing or to S.O's satisfaction.		
	Work covered comprises operation and maintenance, troubleshooting and repair, replacement or supply, delivery, installation, testing and commissioning c/w necessary accessories and works require for a proper installation and equipment to function in order and accordingly, acceptable by S.O in charge as follows:-		
	BIL NO 2 : Fire Protection Services.		
	All the works carried out, materials, equipment supplies etc, for the above installation shall be strictly in accordance with the local authority standards and original equipment specification. standards to comply:-		
	1. Fire Safety Order, 2016, Brunei Fire Rescue Department		
	2. FIR guidline or current NFPA		
	3. BS 5306 Standards		
	4. PBD12:2017		
	5. EIR DES Electrical Standards or latest IEE wiring regulations.		
1.1	**INSURANCES**		
	Provide the following insurance policies and such other insurances as may be necessary to protect the Contractor's and Government's interest:		
1.1.1	Workmen's compensation policy in the joint names of the Government and the Contractor	LS	$500.00
1.1.2	Public liablity policy in the joint names of the government and the Contractor		
1.1.3	Fire policy on the joint names of the Government and the Contractor including demolition and cleaning of fire damaged structures, debris etc.		
1.2	**TOOLS AND VEHICLES**		
1.2.1	Awarded contractor should provide sufficient tools and testing equipment up to standard requirement for the duration of the contract period. Allow assistance for site inspection, supervision, meeting and any related activities throughout the duration of contract period.	LS	$300.00
1.3	**OCCUPATIONAL SAFETY AND HEALTH (OSH)**		
1.3.1	The Contractor shall be ensured that all work are carried out to high standard of safety for their own workers on site including provision and maintenance of safety equipment and first aid kits as per quotation specification and requirement of Brunei Darussalam 'Workplace Safety and Heath Order 2009'	LS	$500.00
1.3.2	Adequate protection equipment shall be supplied to each worker relevant to the area they are working in and work they are required to do and competent instruction in it use shall be provided.		

ITEM	DESCRIPTION	UNITS	RATE $
1.4 1.4.1	**REMOVAL OF RUBBISH** Keep the site tidy and free from rubbish, debris and the like. The Contractor shall ensure that good housekeeping is maintained continously throughout the duration of the works with due regard being paid to tidiness, accessway and disposal of scrap materials and rubbish. **IMPORTANT NOTE:** - Contractor should first provide **pre-inspection** checking / survey and to produce report before starting the works. - The Contractor undertakes to carry put the services with reasonable care and skill using appropriately **qualified and supervised person.** - Contractor to liase with Brunei Fire Rescue Department [BFRD] to obtain advice and approval of works to be carried out. Necessary submissions such as permits, drawings and layouts to be available by contractor for approval. To comply with necessary drawing revisions as per ordered by BFRD. BBDP and BFRD approval is required before work commences. - All materials / fittings offered as per DES / DME / ABCi / Bomba **approved type only.** - All **workdone and completed shall be duly verified and certified** by Brunei Fire and Rescue Department [BFRD] & Bahagian Bangunan Dan Pemeliharaan [BBDP] on site complete with services reports, drawings where necessary and all relevant supporting documents. - Maintain **binded service records** of work done and updated technical data and details. - Ensure that the maintenance personnel are available on a 24-hour basis to provide emergency assistance. Contractor shall within 30 mins receipt notice from S.O to provide assistance and dispatch of qualified engineer or technician on site. - **Rate** shall include prices for transportation, troubleshooting, inspection, labour, materials and tools (test equipment, cleaning materials and lubricants used) for servicing and replacement of equipment as per appropriate standard to the specification of the equipment and to BFRD standard, rules and regulations. - During the continuance of this contract, the contractor shall maintain **stocks availability** of equipment and spare parts to the same specifictions or at very least be functinally equivalent to existing removed parts. All removed parts/ equipment must be returned to the respective Government Building with relevant service verified and endorsed. - Dismatle and removal from site unused / dmaged existing equipment and accessories as per instructed by S.O and to patch up and make good any work disturbed after work completed. - If the units under repair are consider **beyond economical repair,** the Superintendent Engineer must be notify immediately so that inspection can be carry out to verify the report, the contractor have to repair it accordingly to working order. Those units which had been considered beyond economical repair will be omitted temporarily from the maintenance list until new replacement is available.	LS	$200.00

ITEM	DESCRIPTION	UNITS	RATE $
	BILL NO 2 **FIRE PROTECTION SERVICES**		
2.1	**ROUTINE MAINTENANCE INSPECTIONS OF FIRE PROTECTION SERVICES** To perform checking inspections include general cleaning and service, calibrating, troubleshooting, adjusting, realigning, testing and reporting as ordered by S.O of:- [Contractor to submit proposed work program and schedule of work. Report must be verified by S.O **Location to be decided by the S.O**		
2.1.1	Fire Alarm Systems and other related accessories. Refer Schedule A.1. Inspection per building. [Quarterly]	lot	450.00
2.1.2	Smoke Ventilation System and Smoke Curtain System and other related accessories. Refer schedule A.2. Inspection per building [Quarterly]	lot	250.00
2.1.3	Extinguisher and other related accessories. Refer Schedule A.3. Inspection per building. [Annually]	lot	250.00

REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES

ITEM	DESCRIPTION	UNITS	RATE $
	REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES [APPROVED TYPE ONLY] **-FIRE / GAS ALARM PANEL AND ACCESSORIES** **-DETECTORS AND ACCESSORIES** **-WET RISER AND HOSE REEL SYSTEM** **-FIRE PUMPS AND CONTROL** **-SMOKE CURTAINS** **-FIREMEN INTERCOM** **-SMOKE VENTILLATION** **-ELECTRICAL ITEMS** **- FIRE EXTINGUISHER** **- FIRE HYDRANT** Replace or supply, installation, testing and commissioning c/w necessary accessories and works required. Equipment supplied and installation shall be approved by BFRD only. Supplier of Equipment shall be from approved BFRD Suppliers / Contractors only. All wirings works shall be done by an approved Electrical Contractors. Finishes shall be RED in colour unless otherwise stated. Maintenance and new installation work shall have inspection sticker for Extinguisher and Fire Alarm Panel. Awarded contractor should provide sufficient tools and testing equipment up to standard requirement in the perticular conditions for the duration of the contract period. Allow assistance for site inspection, supervision, meeting and any related activities throughout the duration of contract period. As required on the general specification requirement. To provide proper safety facilities such as hiab crane, step ladder, scaffoldings and other size lifting facilities as required on site. All facilities will not be limited on the number of usage and numbers of installation. Contractor's should have proper safety hoisting / lifting's vehicle or related faclities which are capable to be used on every location on the site (as for this tender area). All maintenance work will be covering high and low area (unlimited usage).		

REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES

ITEM	DESCRIPTION	UNITS	RATE $
2.2	**FIRE ALARM SYSTEM**		
2.2.1	Supply, install, testing and commissioning of the conventional fire alarm panel c/w LCD control & display module, auto dialer, battery, charger, interfacing cards, all necessary accessories and interconnecting cables:-		
2.2.1.1	2 Zones	No	1,400.00
2.2.1.2	4 Zones	No	1,500.00
2.2.1.3	6 Zones	No	1,550.00
2.2.1.4	8 Zones	No	1,600.00
2.2.1.5	10 Zones	No	1,650.00
2.2.1.6	12 Zones	No	1,700.00
2.2.2	Supply, install, testing and commissioning of PCB for conventional fire alarm panel:-		
2.2.2.1	2 Zones	No	878.00
2.2.2.2	4 Zones	No	888.00
2.2.2.3	6 Zones	No	898.00
2.2.2.4	8 Zones	No	908.00
2.2.2.5	10 Zones	No	918.00
2.2.2.6	12 Zones	No	928.00
2.2.3	Supply, install, testing and commissioning of Acrylic Graphic Mimic Panel c/w LED indications, interfacing cards, metal-clad box and all necessary accessories and interconnecting cables etc		
2.2.3.1	2 Zones	No	763.00
2.2.3.2	4 Zones	No	773.00
2.2.3.3	6 Zones	No	783.00
2.2.3.4	8 Zones	No	793.00
2.2.3.5	10 Zones	No	803.00
2.2.3.6	12 Zones	No	813.00
2.2.4	Supply, install, testing and commissioning of the following field devices (any type or make with approved equivalent.) for conventional fire alarm system:-		
2.2.4.1	Alarm Bell	No	132.00
2.2.4.2	LED Sounder Beacon	No	132.00
2.2.4.3	LED Strobe Light	No	132.00
2.2.4.4	Break Glass with Resettable Panel	No	148.00
2.2.4.5	Spare Resettable Break Glass Panel	No	50.00
2.2.4.6	Smoke Detector	No	124.00
2.2.4.7	Heat Detector	No	124.00
2.2.4.8	Gas Detector	No	207.00
2.2.4.9	Beam Detector	No	299.00
2.2.4.10	Reflector for Beam Detector	No	138.00
2.2.4.11	Weatherproof Back Box for Alarm Bell	No	80.00
2.2.4.12	Manual Call Point (handle)	No	45.00
2.2.4.13	Detector Base	No	45.50
2.2.4.14	Remote indicator	No	50.00

REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES

ITEM	DESCRIPTION	UNITS	RATE $
2.2.5	Supply, install, testing and commissioning of the addressable fire alarm panel c/w LCD control & display module, auto dialer, battery, charger, interfacing cards, all necessary accessories and interconnecting cables	No	3,500.00
2.2.6	Supply, install, testing and commissioning of PCB for addressable fire alarm panel	No	800.00
2.2.7	Supply, install, testing and commissioning of Acrylic Graphic Mimic Panel c/w LED indications, interfacing cards, metal-clad box and all necessary accessories and interconnecting cables etc for addressable fire alarm panel	No	863.00
2.2.8	Supply, install, testing and commissioning of the following field devices (any type or makewith approved equivalent.) for addressable fire alarm system:		
2.2.8.1	Alarm Bell	No	132.00
2.2.8.2	LED Sounder Beacon	No	132.00
2.2.8.3	LED Strobe Light	No	132.00
2.2.8.4	Break Glass with Resettable Panel	No	148.00
2.2.8.5	Spare Resettable Break Glass Panel	No	50.00
2.2.8.6	Smoke Detector	No	124.00
2.2.8.7	Heat Detector	No	124.00
2.2.8.8	Gas Detector	No	207.00
2.2.8.9	Beam Detector	No	299.00
2.2.8.10	Reflector for Beam Detector	No	138.00
2.2.8.11	Input Module	No	195.00
2.2.8.12	Output Module	No	195.00
2.2.8.13	Weatherproof Back Box for Alarm Bell	No	80.00
2.2.8.14	Manual Call Point (handle)	No	45.00
2.2.8.15	Detector Base	No	45.50
2.2.8.16	Remote indicator	No	50.00
2.3	**PARTS AND ACCESSORIES FOR FIRE ALARM SYSTEM**		
2.3.1	Supply, install, testing and commissioning of the following parts/accessories(any type, make or size with approved equivalent) for fire alarm system:-		
2.3.1.1	Printer	No	345.00
2.3.1.2	Printer's Paper	Roll	58.00
2.3.1.3	Indicator Lamp	No	58.00
2.3.1.4	Indicator Lamp Holder	No	58.00
2.3.1.5	Nickel Cadmium Battery	No	87.00
2.3.1.6	Automatic Battery Charger Unit	No	173.00
2.3.1.7	Interface Card	No	105.00
2.3.1.8	Loop Card	No	650.00
2.3.1.9	Ram Card	No	180.00
2.3.1.10	I/O card	No	105.00
2.3.1.11	Digital Communication / Auto Dialer	No	585.00
2.3.1.12	Line Isolator	No	250.00
2.3.1.13	Panel Key	No	8.00
2.3.1.14	End Line Resistor	No	8.00

ITEM	DESCRIPTION	UNITS	RATE $
2.3.1.15	Fault Buzzer	No	40.00
2.3.1.16	Panel Triangle Knob Key	No	10.00
2.4	**AUTOMATIC SPRINKLER SYSTEM**		
2.4.1	Supply, install, testing and commissioning of electric driven sprinkler pump c/w motor (efficiency class = IE3 and above), inertial block, isolation spring, mounting skid and all necessary accessories.		
2.4.1.1	Nominal Flow Rate: 1150 L/min at 1.9 bars (Hazard Class: OH1/30M)	No	5,244.00
2.4.2	Supply, install, testing and commissioning of diesel engine driven sprinkler pump c/w diesel engine, control panel, starters, battery, charger, diesel tank, diesel filter, oil filter, air filter, muffler, exhaust pipe, protective cover, inertial block, isolation spring, mounting skid and all necessary accessories.		
2.4.2.1	Nominal Flow Rate: 1150 L/min at 1.9 bars (Hazard Class: OH1/30M)	No	15,594.00
2.4.3	Supply, install, testing and commissioning of electric driven vertical multi-stage jockey pump c/w motor (efficiency class = IE3 and above), frame, coupling, junction box, fasteners, base, isolation spring, mounting skid and all necessary accessories.		
2.4.3.1	Nominal Flow Rate: 45 L/min at 5 bars (Hazard Class: OH1/30M)	No	2,944.00
2.4.4	Supply, install, testing and commissioning of fire sprinkler pumps control panel c/w alarm, warning lights, indicating light, switches, interfacing with Main Fire Alarm Panel, battery, charger & other necessary accessories.	No	4,554.00
2.5	**PIPEWORKS FOR AUTOMATIC SRINKLER SYSTEM**		
2.5.1	Supply, lay, install, testing and commissioning of underground Galvanized Iron Class 'C' pipe c/w all fittings, excavation, trenches,backfill, sand bedding, compaction, marker, concrete supports, etc., to complete.		
2.5.1.1	25mm ID	m	8.00
2.5.1.2	32mm ID	m	10.00
2.5.1.3	40mm ID	m	12.00
2.5.1.4	50mm ID	m	17.00
2.5.1.5	65mm ID	m	21.00
2.5.1.6	80mm ID	m	28.00
2.5.1.7	100mm ID	m	38.00
2.5.1.8	150mm ID	m	56.00

REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES

ITEM	DESCRIPTION	UNITS	RATE $
2.5.2	Supply, install, testing and commissioning of Galvanized Iron Class 'B' pipe c/w fittings, elbows, tees, brackets, hangers, supports and all necessary accessories.		
2.5.2.1	25mm ID	m	7.00
2.5.2.2	32mm ID	m	9.00
2.5.2.3	40mm ID	m	11.00
2.5.2.4	50mm ID	m	15.00
2.5.2.5	65mm ID	m	19.00
2.5.2.6	80mm ID	m	25.00
2.5.2.7	100mm ID	m	34.00
2.5.2.8	150mm ID	m	50.00
2.5.3	Supply, install, testing and commissioning of Sprinkler Installation Valve c/w gate valves, check valve, strainers, water alarm gong, pressure gauges, connection pipes, etc. as specified		
2.5.3.1	100mm ID	m	4,298.00
2.5.3.2	150mmID	m	5,810.00
2.5.4	Supply, install, testing and commissioning of Flow Meter for Sprinkler System under:-		
2.5.4.1	Hazard Class: XLH (Orifice size: 21.0mm / 18.5mm)	No	1,243.00
2.5.4.2	Hazard Class: OH1 (Orifice size: 31.0mm)	No	1,243.00
2.5.4.3	Hazard Class: OH2 (Orifice size: 40.0mm)	No	1,243.00
2.5.4.4	Hazard Class: OH3 (Orifice size: 45.0mm)	No	1,243.00
2.5.4.5	Hazard Class: OH3 Special (Orifice size: 50.0mm)	No	1,519.00
2.5.4.6	Hazard Class: XHH 7.5mm/min (Orifice size: 58.0mm)	No	1,519.00
2.5.4.7	Hazard Class: XHH 10mm/min (Orifice size: 62.0mm)	No	1,875.00
2.5.5	Supply, install, testing and commissioning of Breeching Inlet:-		
2.5.5.1	2-Way	No	395.00
2.5.5.2	4-Way	No	453.00
2.5.6	Supply, install, testing and commissioning of Gate Valve:-		
2.5.6.1	15mm ID	No	79.00
2.5.6.2	20mm ID	No	79.00
2.5.6.3	25mm ID	No	79.00
2.5.6.4	32mm ID	No	79.00
2.5.6.5	40mm ID	No	172.00
2.5.6.6	50mm ID	No	193.00
2.5.6.7	65mm ID	No	236.00
2.5.6.8	80mm ID	No	526.00
2.5.6.9	100mm ID	No	794.00
2.5.6.10	150mm ID	No	1,174.00

ITEM	DESCRIPTION	UNITS	RATE $
2.5.7	Supply, install, testing and commissioning of Ball Valve:-		
2.5.7.1	15mm ID	No	79.00
2.5.7.2	20mm ID	No	79.00
2.5.7.3	25mm ID	No	79.00
2.5.7.4	32mm ID	No	79.00
2.5.7.5	40mm ID	No	172.00
2.5.7.6	50mm ID	No	193.00
2.5.7.7	65mm ID	No	236.00
2.5.7.8	80mm ID	No	526.00
2.5.7.9	100mm ID	No	794.00
2.5.8	Supply, install, testing and commissioning of Ball Float Valve:-		
2.5.8.1	50mm ID	No	223.00
2.5.8.2	80mm ID	No	223.00
2.5.8.3	100mm ID	No	445.00
2.5.8.4	150mm ID	No	445.00
2.5.9	Supply, install, testing and commissioning of Butterfly Valve:-		
2.5.9.1	25mm ID	No	79.00
2.5.9.2	32mm ID	No	79.00
2.5.9.3	40mm ID	No	79.00
2.5.9.4	50mm ID	No	79.00
2.5.9.5	65mm ID	No	172.00
2.5.9.6	80mm ID	No	193.00
2.5.9.7	100mm ID	No	236.00
2.5.9.8	150mm ID	No	576.00
2.5.10	Supply, install, testing and commissioning of Non-Return Valve:-		
2.5.10.1	25mm ID	No	79.00
2.5.10.2	32mm ID	No	85.00
2.5.10.3	40mm ID	No	107.00
2.5.10.4	50mm ID	No	148.00
2.5.10.5	65mm ID	No	172.00
2.5.10.6	80mm ID	No	193.00
2.5.10.7	100mm ID	No	236.00
2.5.10.8	150mm ID	No	576.00
2.5.11	Supply, install, testing and commissioning of Strainer:-		
2.5.11.1	50mm ID	No	395.00
2.5.11.2	65mm ID	No	460.00
2.5.11.3	80mm ID	No	621.00
2.5.11.4	100mm ID	No	724.00
2.5.11.5	150mm ID	No	848.00

ITEM	DESCRIPTION	UNITS	RATE $
2.5.12	Supply, install, testing and commissioning of Butterfly Valve with tamper switch:-		
2.5.12.1	65mm ID	No	344.00
2.5.12.2	80mm ID	No	366.00
2.5.12.3	100mm ID	No	409.00
2.5.12.4	150mm ID	No	748.00
2.5.13	Supply, install, testing and commissioning of Flow Switch.		
2.5.13.1	65mm ID	No	223.00
2.5.13.2	80mm ID	No	223.00
2.5.13.3	100mm ID	No	223.00
2.5.13.4	150mm ID	No	273.00
2.5.14	Supply, install, testing and commissioning of 25mm ID Test & Drain Valve.	No	173.00
2.5.15	Supply and install of Sprinkler Heads (Temperature: 68 °C)		
2.5.15.1	Pendant Type	No	10.00
2.5.16	Concealed Pendant Type c/w Cover	No	14.00
2.5.16.1	Upright Type	No	10.00
2.5.16.2	Horizontal Sidewall Type	No	10.00
2.5.17	Stainless Steel Flushing Plate or Rosette for Ceiling Mounted Sprinkler	No	14.00
2.5.18	Automatic Air Release Valve c/w Isolation Ball Valve	No	403.00
2.6	**FIRE HOSE REEL SYSTEM**		
2.6.1	Supply, install, testing and commissioning of electric driven fire hose reel pump c/w motor (efficiency class = IE3 and above), frame, coupling, junction box, fasteners, base, isolation spring, mounting skid and all necessary accessories		
2.6.1.1	Pump Capacity: upto 0.75 kW (1 HP)	No	1,500.00
2.6.1.2	Pump Capacity: upto 1.1 kW (1.5 HP)	No	1,800.00
2.6.1.3	Pump Capacity: upto 1.5 kW (2.0 HP)	No	2,500.00
2.6.1.4	Pump Capacity: upto 1.875 kW (2.5 HP)	No	2,900.00
2.6.1.5	Nominal Flow Rate: 2.5 L/s @ 45m(H)	No	2,128.00
2.6.1.6	Nominal Flow Rate: 136 L/min @ 65m(H)	No	4,394.00

REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES

ITEM	DESCRIPTION	UNITS	RATE $
2.6.2	Supply, install, testing and commissioning of diesel engine driven fire hose reel pump c/w diesel engine, control panel, starters, battery, charger, diesel tank, diesel filter, oil filter, air filter, muffler, exhaust pipe, protective cover, isolation spring, mounting skid and all necessary accessories		
2.6.1.1	Pump Capacity: upto 0.75 kW (1 HP)	No	2,500.00
2.6.1.2	Pump Capacity: upto 1.1 kW (1.5 HP)	No	2,900.00
2.6.1.3	Pump Capacity: upto 1.5 kW (2.0 HP)	No	3,500.00
2.6.1.4	Pump Capacity: upto 1.875 kW (2.5 HP)	No	4,000.00
2.6.1.5	Nominal Flow Rate: 2.5 L/s @ 45m(H)	No	2,128.00
2.6.1.6	Nominal Flow Rate: 136 L/min @ 65m(H)	No	4,394.00
2.6.3	Supply, install, testing and commissioning of fire hose reel pumps control panel c/w alarm, warning lights, indicating light, switches, interfacing with Main Fire Alarm Panel, battery, charger & other necessary accessories	No	2,500.00
2.7	**PIPEWORKS FOR FIRE HOSE REEL SYSTEM**		
2.7.1	Supply, lay, install, testing and commissioning of underground Medium Density Polyethylene (MDPE) pipe c/w all fittings, excavation, trenches, backfill, sand bedding, compaction, marker, concrete supports, etc. to		
2.7.1.1	50mm ID (63mm OD)	m	58.00
2.7.2	Supply, install, testing and commissioning of Stainless Steel pipe to BS4127 Grade 304 c/w fittings, elbows, tees, brackets, hangers, supports and all necessary accessories		
2.7.2.1	50mm ID (63mm OD)	m	110.00
2.7.3	Supply and install of fire hose reel drum without hose		
2.7.3.1	Fixed Type	No	173.00
2.7.3.2	Swing Type	No	207.00
2.7.4	Supply, install, testing and commissioning of 25mm diameter x 30m length fire hose reel.	No	115.00
2.7.5	Supply, install, testing and commissioning of jet & spray nozzle for firehose reel.	No	58.00
2.7.6	Supply and install M.S. cabinet c/w key for fire hose reel.	No	104.00
2.7.7	Supply and install hose reel Wall bracket	No	5.00
2.7.8	Supply and install hose reel Clip	No	8.00
2.7.9	Suppy and install hose Guide	No	15.00

ITEM	DESCRIPTION	UNITS	RATE $
2.7.10	Supply and install hose reel Notice Bilingual as Bomba Spec	No	50.00
2.7.11	Supply and install hosereel water tray c/w drainage	No	50.00
2.8	**ELECTRIC MOTORS**		
2.8.1	Electric Motor - Replacement Disconnect and remove from site, 1 no. unserviceable defective electric motor (any make or type with approved equivalent). Supply and fix 1 no. new electric motor of approved manufacture that unit under repair including reconnection, testing and re-commissioning of the system.		
2.8.1.1	Electric motor rated upto 1 kW	No	259.00
2.8.1.2	Electric motor rated above 1 kW upto 5 kW	No	259.00
2.8.1.3	Electric motor rated above 5 kW upto 10 kW	No	259.00
2.8.1.4	Electric motor rated above 10 kW upto 15 kW	No	432.00
2.8.1.5	Electric motor rated above 15 kW upto 20 kW	No	432.00
2.8.1.6	Electric motor rated above 20 kW upto 25 kW	No	518.00
2.8.1.7	Electric motor rated above 25 kW upto 30 kW	No	518.00
2.8.1.8	Electric motor rated above 30 kW upto 35 kW	No	690.00
2.8.1.9	Electric motor rated above 35 kW upto 40 kW	No	690.00
2.8.1.10	Electric motor rated above 40 kW upto 45 kW	No	920.00
2.8.1.11	Electric motor rated above 45 kW upto 50 kW	No	920.00
2.8.2	Electric Motor - Re-winding Disconnect and remove from site to workshop 1 no. defective electric motor (any make or type with approved equivalent). Carry out general service and re-wind ofmotor including re-install, reconnection, testing and re-commissioning of the system.		
2.8.2.1	Electric motor rated upto 1 kW	No	173.00
2.8.2.2	Electric motor rated above 1 kW upto 5 kW	No	173.00
2.8.2.3	Electric motor rated above 5 kW upto 10 kW	No	288.00
2.8.2.4	Electric motor rated above 10 kW upto 15 kW	No	288.00
2.8.2.5	Electric motor rated above 15 kW upto 20 kW	No	345.00
2.8.2.6	Electric motor rated above 20 kW upto 25 kW	No	345.00
2.8.2.7	Electric motor rated above 25 kW upto 30 kW	No	460.00
2.8.2.8	Electric motor rated above 30 kW upto 35 kW	No	460.00
2.8.2.9	Electric motor rated above 35 kW upto 40 kW	No	690.00
2.8.2.10	Electric motor rated above 40 kW upto 45 kW	No	690.00
2.8.2.11	Electric motor rated above 45 kW upto 50 kW	No	920.00
2.8.3	Supply, install, testing and commissioning of motor bearing:-		
2.8.3.1	upto 25mm ID each	No	800.00
2.8.3.2	upto 50mm ID each.	No	500.00
2.8.3.3	upto 75mm ID each.	No	700.00
2.8.3.4	upto 100mm ID each	No	900.00

ITEM	DESCRIPTION	UNITS	RATE $
2.9	**Electric Motor Starters**		
2.9.1	Supply, install, testing and commissioning of electric motor starters:-		
2.9.1.1	Direct On Line Starter		
2.9.1.1.1	upto 1kW pump's motor	No	173.00
2.9.1.1.2	upto 3kW pump's motor	No	173.00
2.9.1.2	Auto Transformer		
2.9.1.2.1	upto 10kW pump's motor	No	345.00
2.9.1.2.2	upto 20kW pump's motor	No	345.00
2.9.1.2.3	upto 30kW pump's motor	No	460.00
2.9.1.2.4	upto 40kW pump's motor	No	575.00
2.9.1.2.5	upto 50kW pump's motor	No	690.00
2.9.1.3	Soft Starter		
2.9.1.3.1	upto 10kW pump's motor	No	460.00
2.9.1.3.2	upto 20kW pump's motor	No	863.00
2.9.1.3.3	upto 30kW pump's motor	No	1,093.00
2.9.1.3.4	upto 40kW pump's motor	No	1,323.00
2.9.1.3.5	upto 50kW pump's motor	No	1,553.00
2.10	**PARTS AND ACCESSORIES FOR PUMPS AND CONTROLS**		
2.10.1	Supply, install, testing and commissioning of the following parts and associated accessories. (any type, make or size with approved equivalent.)		
2.10.1.1	Pump Gland Packing Seal	cm	58.00
2.10.1.2	Lip Seal		
2.10.1.2.1	up to 25mm ID	No	173.00
2.10.1.2.2	up to 50mm ID	No	173.00
2.10.1.2.3	up to 100mm ID	No	288.00
2.10.1.2.4	up to 150mm ID	No	345.00
2.10.1.3	Mechanical Seal		
2.10.1.3.1	up to 25mm ID	No	219.00
2.10.1.3.2	up to 50mm ID	No	334.00
2.10.1.3.3	up to 100mm ID	No	403.00
2.10.1.3.4	up to 150mm ID	No	575.00
2.10.1.4	Pump O-Ring		
2.10.1.4.1	up to 50mm OD	No	115.00
2.10.1.4.2	up to 100mm OD	No	173.00
2.10.1.4.3	up to 150mm OD	No	345.00
2.10.1.4.4	up to 200mm OD	No	345.00
2.10.1.4.5	up to 250mm OD	No	345.00
2.10.1.5	Pump Bearing		
2.10.1.5.1	up to 25mm ID	No	115.00
2.10.1.5.2	up to 50mm ID	No	173.00
2.10.1.5.3	up to 100mm ID	No	173.00
2.10.1.5.4	up to 150mm ID	No	230.00

REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES

ITEM	DESCRIPTION	UNITS	RATE $
2.10.1.6	Pump Pillow Block Bearing		
2.10.1.6.1	up to 50mm ID	No	58.00
2.10.1.6.2	up to 100mm ID	No	104.00
2.10.1.6.3	up to 150mm ID	No	173.00
2.10.1.7	Pump Bush Bearing		
2.10.1.7.1	up to 25mm ID	No	104.00
2.10.1.7.2	up to 50mm ID	No	150.00
2.10.1.7.3	up to 100mm ID	No	184.00
2.10.1.7.4	up to 150mm ID	No	219.00
2.10.1.8	Pump Coupling Set		
2.10.1.8.1	up to 32mm OD	No	138.00
2.10.1.8.2	up to 50mm OD	No	173.00
2.10.1.8.3	up to 100mm OD	No	219.00
2.10.1.8.4	up to 150mm OD	No	299.00
2.10.1.8.5	up to 200mm OD	No	334.00
2.10.1.8.6	up to 250mm OD	No	403.00
2.10.1.9	Rubber Bush		
2.10.1.9.1	up to 25mm ID	No	69.00
2.10.1.9.2	up to 50mm ID	No	104.00
2.10.1.9.3	up to 100mm ID	No	173.00
2.10.1.9.4	up to 150mm ID	No	230.00
2.10.1.10	Pump Impeller (Made of Stainless Steel)		
2.10.1.10.1	up to 100mm OD	No	345.00
2.10.1.10.2	up to 150mm OD	No	403.00
2.10.1.10.3	up to 200mm OD	No	460.00
2.10.1.10.4	up to 250mm OD	No	518.00
2.10.1.10.5	up to 300mm OD	No	575.00
2.10.1.11	Pump Capacitor	No	115.00
2.10.1.12	Pressure Gauge	No	58.00
2.10.1.13	Pressure Switch	No	173.00
2.10.1.14	Float Switch	No	173.00
2.10.1.15	Water Level Sensor	No	345.00
2.10.1.16	Relay	No	58.00
2.10.1.17	Contactor	No	173.00
2.10.1.18	Selector Switch	No	69.00
2.10.1.19	Ammeter	No	69.00

ITEM	DESCRIPTION	UNITS	RATE $
2.10.1.20	Voltmeter	No	69.00
2.10.1.21	Hour-run Meter	No	69.00
2.10.1.22	Indicator Lamp Bulb	No	46.00
2.10.1.23	Indicator Lamp Bulb Holder	No	46.00
2.10.1.24	Indicator Lamp Bulb Cover	No	46.00
2.11	**PARTS AND ACCESSORIES FOR PUMP'S DIESEL ENGINE**		
2.11.1	Supply, install, testing and commissioning of the following parts and associated accessories		
2.11.1.1	Oil Filter (any type, make or size with approved equivalent.)	No	110.00
2.11.1.2	Fuel Filter (any type, make or size with approved equivalent.)	No	92.00
2.11.1.3	Air Filter (any type, make or size with approved equivalent.)	No	173.00
2.11.1.4	Diesel Fuel Pump Stop Solenoid (any type, make or size with approved equivalent.)	No	173.00
2.11.1.5	Drive Belt (any type, make or size with approved equivalent.)	No	58.00
2.12	**BATTERY**		
2.12.1	Supply, install, testing and commissioning of maintenance free Sealed Lead Acid battery. Capacity: 12V 48Ah	No	173.00
2.13	**FLUIDS**		
2.13.1	To supply and top up diesel fuel.	Litre	2.00
2.13.2	To supply and top up lubrication oil.	Litre	23.00
2.13.3	Thoroughly flush the system and replace with new lubrication oil.	Litre	23.00
2.13.4	To dispose the waste oil to the designated location approved by local authority	Litre	2.00
2.14	**FIRE BLANKET**		
12.14.1	Supply and install of 1.2m x 1.8m Fire Blanket	No	58.00

ITEM	DESCRIPTION	UNITS	RATE $
2.15	**PARTS AND ACCESSORIES FOR SMOKE VENTILATION SYSTEM**		
2.15.1	Supply, install, testing and commissioning ofthe parts/ accessories for Smoke Ventilation System.		
	Fan Blade		
2.15.1.1	450mm ID	No	1,093.00
2.15.1.2	500mm ID	No	1,093.00
2.15.1.3	630mm ID	No	1,093.00
2.15.1.4	800mm ID	No	1,093.00
2.15.1.5	900mm ID	No	1,323.00
2.15.1.6	1000mm ID	No	1,323.00
2.16	**PARTS AND ACCESSORIES FOR SMOKE CURTAIN SYSTEM**		
2.16.1	Supply, install, testing and commissioning ofthe parts/ accessories for Smoke Curtain System.		
2.16.1.1	Wall Mounted Type Casing c/w Fixing Brackets		
2.16.1.1.1	Length upto 1m	No	10,000.00
2.16.1.1.2	Length upto 3m	No	15,000.00
2.16.1.1.3	Length upto 5m	No	20,000.00
2.16.1.1.4	Length upto 10m	No	25,000.00
2.16.1.2	Ceiling Mounted Type Casing c/w Fixing Brackets		
2.16.1.2.1	Length upto 1m	No	10,000.00
2.16.1.2.2	Length upto 3m	No	15,000.00
2.16.1.2.3	Length upto 5m	No	20,000.00
2.16.1.2.4	Length upto 10m	No	25,000.00
2.16.1.3	Side Guide Rail	m	300.00
2.16.1.4	Textile Fire Protection Curtain	m2	500.00
2.16.1.5	Closing Element / Strip	m	500.00
2.16.1.6	Motor	No	2,000.00
2.16.1.7	Control Panel with Operating Unit	No	5,000.00
2.16.1.8	Control Module	No	2,500.00
2.16.1.9	Manual Release	No	300.00

ITEM	DESCRIPTION	UNITS	RATE $
2.17	**PARTS AND ACCESSORIES FOR FIREMAN INTERCOM SYSTEM**		
2.17.1	Supply, install, testing and commissioning of the parts/ accessories for Fireman Intercom System.		
2.17.1.1	Main Annunciator Panel with specified zones c/w master handset, rechargeable battery, charger unit, surge arrestor, power supply and all necessary accessories	No	9,000.00
2.17.1.2	Fireman Intercom Handset	No	47.00
2.17.1.3	Fireman Intercom Handset Enclosure		
2.17.1.3.1	Surface Mounted Type	No	200.00
2.17.1.3.2	Recessed Mounted Type	No	250.00
2.18	**SIGNAGES**		
2.18.1	Supply and install the following Signages as per Bomba's requirements:-		
2.18.1.1	Assembly Point 1.0m x 0.7m	No	65.00
2.18.1.2	Warning / Instruction Signage in Malay and English	No	65.00
2.18.1.3	Occupancy Load	No	65.00
2.18.1.4	No smoking / Highly Flammable	No	50.00
2.18.1.5	Reflective 'KELUAR' Signages to Bomba Specification 120mm x 300mm x 3mm Acryclic Plate, 3m Green sticker & 3m White sticker	No	65.00
2.18.1.6	Fire Engine Access Signboard c/w 1.5m height pole and concrete plinth to Bomba Specification.	No	300.00
2.18.1.7	Assembly Point Signboard 1m x 0.7m c/w 1.5m height pole c/w with paint and concrete plinth to Bomba Specification	No	300.00
2.19	**PAINTING**		
2.19.1	Carry out painting on equipment in accordance with the specification		
2.19.1.1	Painting of Metal	m2	23.00
2.19.1.2	Painting of Galvanized Metal	m2	23.00
2.19.2	Yellow Paint on the road for Fire Engine Access Sign measurement 3m by 15m to Bomba specification	lot	100.00
2.20	**ELECTRICAL ITEMS**		
2.20.1	Supply, install and comissioning the electrical items below:		
2.20.1	LED Emergency Sign Fitting		
2.20.1.1	1 x 8w c/w 2hrs battery duration	No	169.00
2.20.1.2	2 x 8w c/w 2 hrs battery duration	No	120.00
2.20.2	LED Keluar Sign Fitting	No	169.00
2.20.3	Emergency Light Fitting	No	169.00
2.20.3.1	LED Self-contained Emergency Light c/w accessories	No	170.00
2.20.3.2	LED Self-contained Twin HeadEmergency Light c/w accessories	No	169.00

ITEM	DESCRIPTION	UNITS	RATE $
2.20.4	Wiring point using 3 x 1.5mm2 pvc cable in conduit / casing	No	45.00
2.20.5	Wiring emergency button using 2 x 1.5mm2 PVC cable in PVC casing / conduit c/w emergency push button, contactor and other necessary accessories	No	300.00
2.21	**MISCELLANEOUS ITEMS**		
2.21.1	To supply and install Fire rated doors complete with intumescent strip, Frame, hardware and accessories to Bomba requirements and approval, including obtaining approval certificates and all finishes and ironmongery etc.		
2.21.1.1	Metal Door Frame	No	450.00
2.21.1.2	Solid wood Frame	No	480.00
2.21.2	To supply and install water tray c/w hacking, patching, painting for drainage all necessary building works to bomba specification	No	150.00
2.21.3	To Design, fabricate and install m.s type construction of security grille cage suitable for 2 nos of gas cylinder which includes swing door / hinges, roofing aluminium sheet, approve painting, padlock and hacking for allowance of gas hose and any other necessary accessories required.		
2.21.3.1	Domestic Gas Cylinder	lot	250.00
2.21.3.2	Commercial Gas Cylinder	lot	500.00
2.21.4	To supply and install 1.5m height pole c/w paint and concrete plinth to Bomba specification	No	250.00
2.21.5	To supply and install Plain Wood for Fire Alarm Panel complete with fomica and building works	m2	15.00
2.21.6	To Supply and install parts / accessories for fire Hydrant:-		
2.21.6.1	150mm x 150mm x 300mm Deep grade 25 concrete surface box to pillar type fire hydrant with 2200mm x 1200mm x 600mm deep anchor block under ground with BRC A7 all as per Superintending Officer instruction and specification including supply and driving bakau piles, all excavation, formwork, backfilling and disposal.		
2.21.6.1.1	Fire hydrant chamber	No	550.00

REPLACEMENT, INSTALLATION AND REPAIR OF FIRE PROTECTION SERVICES

ITEM	DESCRIPTION	UNITS	RATE $
2.21.6.2	Post pillar type fire hydrant; screw-down pattern; 64mm diameter female screw thread complete with 64mm diameter instantaneous adapor to BS 750; painted in red colour; 100mm diameter Ductile Iron Double Flange pipe; double flange 90' duckfoot bend; 150mm x 150mm square ductile iron cover; 150mm x 150mm hinge type cast iron surface box encased in grade 25 concrete; 100mm diameter Ductile Iron flange sluice valve; 100mm diameter Ductile Iron Double Flange pipe sluice valve; 100m diameter Ductile Iron short pieces; double flange 45' elbow; 100mm diameter Ductile Iron flange adaptor; grade 25 concrete with BRC A7 mesh reinforcement; inclusive of all fittings and builder's works in connection, all as per industrial standard Civil and Structure detail drawing		
2.21.6.2.1	Fire Hydrant	No	800.00
2.21.6.3	Pillar Hydrant		
2.21.6.3.1	2 Way Pillar Hydrant	No	380.00
2.21.6.3.2	3 Way Pillar Hydrant	No	550.00
2.21.6.4	Hydrant Sluice Valve	No	250.00
2.21.6.5	65mm dia 30m long layflat fire hose c/w male / female Instantanous Coupling	No	450.00
2.21.6.6	Fire Hydrant Key and Bar	No	100.00
2.21.6.7	Hand Wheel for Hydrant	No	28.00
2.21.6.8	Paint Fire Hydrant	No	30.00

ITEM	DESCRIPTION	UNITS	RATE $
2.22	**PORTABLE FIRE EXTINGUISHERS** Supply and install the following Portable Fire Extinguisher to be hung and install new hooked securely placed on galvanised form bracket fastened to wall height 1mtr from floor level to the handle unless otherwise stated and c/w all necessary accessories.		
2.22.1	DRY CHEMICAL POWDER		
2.22.1.1	1.0 - 1.9 kg	No	45.00
2.22.1.2	2.0 - 2.9 kg	No	45.00
2.22.1.3	3.0 - 3.9 kg	No	58.00
2.22.1.4	4.0 - 6.0 kg	No	58.00
2.22.1.5	9.0 kg	No	95.00
2.22.2	WATER CO2 CARTRIDGE		
2.22.2.1	6L	No	173.00
2.22.2.2	9L	No	230.00
2.22.3	CARBON DIOXIDE (CO2)		
2.22.3.1	2.0 - 2.9 kg	No	58.00
2.22.3.2	3.0 - 3.9 kg	No	87.00
2.22.3.3	4.0 - 5.0 kg	No	145.00
2.22.4	FOAM TYPE		
2.22.4.1	6L	No	173.00
2.22.4.1	9L	No	230.00
2.22.5	WET CHEMICAL		
2.22.5.1	2L	No	144.00
2.22.5.2	3L	No	144.00
2.22.5.3	6L	No	173.00
2.22.5.4	9L	No	230.00
2.23	**REFILLING OF FIRE EXTINGUISHERS AND MAKE GOOD**		
2.23.1	Dry Chemical Powder	kg	6.00
2.23.2	CO2	kg	6.00
2.23.3	Wet Chemical	kg	6.00
2.23.4	1 kg of FM200	kg	115.00
2.23.5	1kg of aluminium sulphate	kg	7.00
2.23.6	1kg of sodium bicarbonate	kg	7.00
2.23.7	Refill Water	kg	6.00
2.23.8	Refill Foam	kg	9.00

ITEM	DESCRIPTION	UNITS	RATE $
2.24	ACCESSORIES AND PARTS FOR PORTABLE FIRE EXTINGUISHERS		
	Supply, install, testing and commissioning of the accessories / parts for portable fire extinguishers.		
2.24.1	Safety Pin	No	6.00
2.24.2	Adhesive Label	No	6.00
2.24.3	Instruction Label	No	6.00
2.24.4	O-ring (any type, make or size with apporved equivalent)	No	15.00
2.24.5	Quad Ring (any type, make or size with approved equivalent)	No	15.00
2.24.6	Pressure gauge	No	25.00
2.24.7	DIP TUBE		
2.24.7.1	ABC type Fire Extinguisher	No	40.00
2.24.7.2	CO2 type Fire Extinguisher	No	40.00
2.24.7.3	Water type Fire Extinguisher	No	40.00
2.24.8	DISCHARGE HOSE		
2.24.8.1	ABC type Fire Extinguisher	No	23.00
2.24.8.2	CO2 type Fire Extinguisher	No	23.00
2.24.8.3	Water type Fire Extinguisher	No	23.00
2.24.9	WALL MOUNTED FIRE EXTINGUISHER MILD STEEL CABINET		
2.24.9.1	Capacity: 1pc 6.0kg Box	No	69.00
2.24.9.2	Capacity: 1pc 9.0kg Box	No	69.00
2.24.10	Galvanised Metal Bracket c/w expansion bolt	No	6.00
2.24.11	Hook Bracket	No	10.00
2.24.12	SERVICING OF PORTABLE FIRE EXTINGUISHER		
2.24.12.1	Servicing of Portable Fire Extinguisher	No	10.00
2.24.12.2	Renew Bomba's Inspection Certificate of Portable Fire Extinguisher	No.	6.00
2.24.13	HYDROSTATIC TEST		
2.24.13.1	Cylinder Capacity : Below 10Kg / 9L	No	30.00
2.24.13.2	Cylinder Capacity : Below 10Kg - 25Kg	No	50.00
2.24.13.3	Cylinder Capacity : 25kg - 50Kg	No	70.00
2.24.14	Respray of Portable Fire Extinguisher Cylinder to Bomba's Requirements	No	20.00

SCHEDULE A.1 – SCHEDULE A.3

SCHEDULE A.1
SCOPE OF SERVICES [FIRE ALARM SYSTEM]

ROUTINE MAINTENANCE SERVICES

Perform at least the following services:

1. Respond to emergency calls
2. Check the Fire Indicator Board / Main Alarm Panel is in a clean and operative condition and ensure the enclosure is maintaining a satisfactory dust seal.
3. Check Battery voltages by operating the battery test switch and record 'voltage under load condition' in the record book and charging current in accordance with the manufacturer's instructions.
4. Check batteries including terminals for cleanliness to ensure that they are in good serviceable condition.
5. Check condition of battery cabinet for corrosion and to ensure that the batteries are stored in a secure condition.
6. Disconnect battery supply and ensure the visual and audible fault signals are activated at the main alarm panel.
7. Visually inspect the components, including resistors, capacitors and cable.
8. Check operation of external alarm bell and equipment shutdown on sequence.
9. Check detector and manual station by sequence of test lights (i.e ensure that all indicating lights are operating correctly or replace if faulty)
10. Check operation of direct fire brigade alarm transmitter.
11. Check power supply failure facility.
12. Stimulate fault conditions on all alarm zones to ensure that the Main Alarm Panel is operating correctly.
13. Stimulate 'Fire' and 'Fault' (including fault annunciators) conditions by operating test switches on all Alarm groups and resetting the installation to normal and confirm with the alarm monitoring company that the test has been completed.
14. Perform Fire Simulation Testing.
15. Stimulate Power Failure and check on battery voltage to ensure that the system will operate correctly without standby battery power supply
16. Check operation of Alarm Sounder by activating one Alarm Group.
17. Check and test manual call points signal to sub-indicator board individually.
18. Alarm bells to be tested for function
19. Check smoke and Heat detectors, tested in-situ
20. Check the initiation facilities to operate remote control functions in accordance with the appropriate codes. It is recommended that where the Air Handling Plant Shutdown / lift Housing facilities are provided these should be operated at least on a basis. The persons responsible for maintaining the Air Handling Plant / Lift should, however be notified prior to shut down and it shall be the responsibility of the Employer to provide qualified personnel to be in attendance and to restart the plant.
21. Stimulate the fire alarm conditions and check the output signals available to initiate the remote auxiliary functions that are required to be in operation in the event of fire as in accordance in the appropriates codes.
22. Record details of routine tests together with the emergency visits and circuit fault that requires repair, if any.

23. Check that all switches are returned to their normal operating position after the test.
24. Visually inspect the conditions of the components, terminations and cables.
25. To check and make sure the passenger lift should be linked to Fire Alarm System.

SCHEDULE A.2
SCOPE OF SERVICES [SMOKE VENTILATION AND SMOKE CURTAIN SYSTEM]

ROUTINE MAINTENANCE SERVICES

Perform at least the following services:

1. Check and verify that the system and other attachments are in order.
2. Check for any signs of tempering, mechanical damage and corrosion
3. Check and verify that the system functions accordingly when manual switch and auto mode (via detectors) are operated.
4. Visually inspect condition of components such ad capacitors, resistors, cables and the control panels.
5. Provide a logbook to record resting, maintenance and any circuits that require repairs, alteration, replacement or any other works to the system.
6. Ensure that the log book is kept inside the fire alarm panel
7. Record routine checks, test and other emergency calls (if any)

SCHEDULE A.3
SCOPE OF SERVICES [FIRE EXTINGUISHER]

ROUTINE MAINTENANCE SERVICES

1. FIRE EXTINGUISHER

Perform at least the following services:

1.1 Supply and install fire extinguishers as and when instructed by S.O based on the service report.

1.2 Have an adequate supply of fire extinguishers locally and be able to provide the supply of fire extinguishers when instructed by S.O

1.3 Have the spare parts required for the various types of fire extinguisher equipment installed in the government buildings.

1.4 Register all fire extinguishers supplied to the building

1.5 Ensure that all the fire extinguishing equipment supplied is on accordance with the standards approved by the Fire Services Department.

1.6 Charge separately any refill, parts or remedial works carried out.

1.7 Visually inspect each fire extinguisher for mechanical damage, corrosion, etc.

1.8 Examine and clean vent holes in caps, nozzles, trigger valves, horn hose, etc to ensure that they are not clogged with dirt, grease, etc.

1.9 Clean the sealing disc and ensure that it is in good condition and capable of forming gas tight joint.

1.10 Test and adjust valves.

1.11 Examine safety clips, hose, hose clips and chain (if applicable) and adjust them if necessary.

1.12 Examine the 'Instruction' label to ensure that the instructions given are legible.

1.13 Ensure that all fire extinguishers are labelled with stickers to depict the date of servicing in compliance with Fire Services Department.

1.14 Inspection and Maintenance

Ensure that:-

1.14.1 The Inspection and maintenance of fire extinguishers is to BS 5306 Part 3 and NFPA Chapter 10

1.14.2 The Inspection of the fire extinguishing equipment is carried out. The Inspection shall include visual and physical check of the condition of the fire extinguisher for corrosion, leaks, clogged, nozzle, seal etc.

1.14.3 The Servicing of the fire extinguishers are carried out which shall include the maintenance, service charge for the recharging of the fire extinguishers. Leak tests shall be performed after each recharging.

1.14.4 Fire Extinguisher exceeding five (5) years of usage / storage shall be subjected to hydrostatic testing as required.

1.14.5 Hydrostatic testing is performed by trained person(s), having the appropriate service manuals, proper tools, proper equipment and manufacturer's recommended replacement parts. The fire extinguisher shall be stamped with a punch to indicate the date of hydrostatic testing.

1.14.6 Any Fire Extinguishers removed for servicing or maintenance is replaced with a temporary fire extinguisher of equivalent type and size.

1.14.7 The Contractor shall be available at any time to carry out the maintenance works on the fire extinguishers as and when required by S.O.

1.14.8 All Fire extinguisher shall have stickers which indicate the date of inspection and date of expiry. After each successful hydrostatic testing, each fire extinguisher cylinder is stamped indicating the date of hydrostatic test, the person and the company performing the test.

APPENDIX

APPENDIX 1

SENARAI DAN JUMLAH PEKERJA

(a) PEKERJA TEMPATAN (Jumlah dan Bilangan %)

Nama Pekerja	No. Kad Pengenalan	Jawatan	Kadar gaji Sebulan	TAP		Lain-lain kemudahan
				Bil	Caruman	

(b) PEKERJA ASING (Jumlah dan bilangan%)

Nama Pekerja	Jawatan	Kadar gaji Sebulan	Lain-lain kemudahan

MAKLUMAN MENGENAI KERJA-KERJA YANG TELAH SIAP DIBUAT BI NEGARA BRUNEI DARUSSALAM

INFORMATION ON THE LIST OF COMPLETED JOBS IN BRUNEI DARUSSALAM

BIL. *NO.*	**NAMA PROJEK** *NAME OF PROJECT*	**LETAK** *LOCATION*	**HARGA** *COST*	**TARIKH SIAP** *COMPLETION DATE*

TANDATANGAN PEMBORONG / *SIGNATURE OF TENDERER* : _____

TARIKH / *DATE* : _____

MAKLUMAN MENGENAI DENGAN PENGUNAAN QUOTA BURUH DAN SENARAI KERJA-KERJA YANG SEDANG DIBUAT DI NEGARA
INFORMATION ON THE DISTRIBUTION OF APPROVED LABOUR QUOTA AND LIST OF CURRENT JOBS IN BRUNEI DARUSSALAM

BIL. QUOTA BURUH YANG TELAH DIBENARKAN / *QUOTA NUMBER APPROVED* : _____ **TARIKH KEBENARAN** / *DATE OF APPROVAL* : _____

BIL. *NO.*	**NAMA PROJEK** *NAME OF PROJECT*	**LETAK** *LOCATION*	**HARGA** *COST*	**TARIKH SIAP** *COMPLETION DATE*	**% KERJA SIAP** *% COMPLETED*	**JUMLAH TENAGA** *NO. OF QUOTA USED*

TANDATANGAN PEMBORONG / *SIGNATURE OF TENDERER* : _____

TARIKH / *DATE* : _____

SENARAI JUMLAH TENAGA MANUSIA YANG AKAN DISERTAKAN UNTUK MEMBUAT PROJEK INI (JIKA BERJAYA)

Proposed Manpower Allocation and Additional Labour Quota Required (if Successful):

Bil. No.	**Nama Jawatan** *Name of Posts*	**Jumlah Tenaga Manusia** *Total Manpower*
	Jumlah *Total*	

Jumlah quota buruh yang masih ada:
No. of labour quota still available (from table Appendix 3):

Jumlah quota buruh yang dikehendaki:
No. of labour quota required:

Tandatangan Saksi:
Signature of Witness:

Tarikh:
Date :

Tandatangan Saksi:
Signature of Witness:

Tarikh:
Date :

SENARAI PERALATAN YANG AKAN DIGUNAKAN UNTUK PEKERJAAN INI (JIKA BERJAYA)

Proposed List of Equipment To Be Used For This Job (If Successful):

Bil. *No.*	**Jenis** *Type*	**Kuantiti** *Quantity*	**No. Modal** *Model No.*	**Kapasiti** *Capacity*	**Remarks**

Tandatangan Saksi:
Signature of Witness:

Tarikh:
Date :

Tandatangan Saksi:
Signature of Witness:

Tarikh:
Date :

SENARAI PEKERJAAN YANG AKAN DI SUB-KONTRAK

Proposed List of Jobs To Be Sub-Contracted:

Bil. *No.*	**Kerja** *Works*	**Kepada** *To*	**Remarks**

Tandatangan Saksi:
Signature of Witness:

Tarikh:
Date :

Tandatangan Saksi:
Signature of Witness:

Tarikh:
Date :

SURAT PENGESAHAN

PENENDER/PEMBORONG/KONTRAKTOR/PENGUSAHA/PEMBEKAL
MEMILIKI 'BUSINESS PREMISE' / PREMISE PERNIAGAAN

Nama Syarikat: _____

Alamat Premise Perniagaan: _____

_____ Pos Kod: _____

Telefon Pejabat / Premis Perniagaan: _____

Faks Pejabat / Premis Perniagaan: _____

Telefon Bimbit: _____

BIL.	NAMA PEMILIK SYARIKAT	BIL. KAD PENGENALAN	WARNA	BANGSA

Nama Pengurus: _____

Bil. Kad Pintar: _____ Warna: _____ Telefon: _____

Sukacita memaklumkan bahawa segala keterangan di atas adalah benar.

_____
( )

Tarikh: _____

COP SYARIKAT

Rujukan:

Kepada,

Ketua Bahagian Bangunan dan Pemeliharaan

Kementerian Hal Ehwal Ugama

Negara Brunei Darussalam

(U.P : Bahagian Penyelaras Projek (PPP))

Tuan/Puan

PER: Borang Pengakuan Kesanggupan Pembekal

Sukacita membuat pengesahan perakuan yang syarikat saya, _____

Bersetuju untuk membuat pembekalan barang / perkakas / perkhidmatan sebagaimana dalam

Tawaran / sebut harga bilangan : _____

Tarikh: _____

COP SYARIKAT

_____

( )

Pemilik Syarikat / CEO / Pengarah

Pengesahan Penerima Jabatan:		
Tarikh Penerima Pebekalan		
(Hendaklah Mengikuti seperti yang telah		
dijanjikan di dalam borang dokuman		
Sebut harga / kebenaran)		

Perhatian:

Borang asal perakuan hendaklah dihantar bersama-sama dengan "Purchase Order"(P.O) and Invoice

Arahan:

Borang yang siap disikan oleh pembekal yang diluluskan hendaklah disertakan bersama-sama dengan "Purchase Order"(P.O) dan invoice apabila tuntutan penyelesaian pembayaran dibuat.