



**MINISTRY OF DEFENCE
NEGARA BRUNEI DARUSSALAM**

QUOTATION FOR

**SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM
FM200 FOR NEW AND EXISTING SERVER ROOM AT VARIOUS
LOCATIONS AND ASSOCIATED WORKS, PENANJONG GARRISON**

QUOTATION NO : JPPK / SH / 24 / 2025 - 2026
CLOSING DATE : 16TH JULY 2026
CLASS : III AND ABOVE
CATEGORY : KPME05, E01, M03 AND KA01

MINDEF/DFA/FY2026/ITAU/Q/PEN/001

QUOTATION SUBMISSION

**QUOTATION BOX NO: 3 (DFA)
ARAS BAWAH
BANGUNAN ARKIB
KEMENTERIAN PERTAHANAN
BOLKIAH GARRISON BB3510
NEGARA BRUNEI DARUSSALAM**



**MINISTRY OF DEFENCE
NEGARA BRUNEI DARUSSALAM**

SUMMARY OF QUOTATION

for

**SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR
NEW AND EXISTING SERVER ROOM AT VARIOUS LOCATIONS AND ASSOCIATED
WORKS, PENANJONG GARRISON
JPPK / SH / 24 / 2025-2026**

Instruction to Tenderers

There is no quotation fee for this project. Relevant document(s) can be obtained by downloading from Ministry of Defence website at <http://www.mindef.gov.bn> and click on “Tender & Quotation” tab and go to “Quotations” box as the quotation document can be found in the provided folder with respect to its closing date.

This quotation is open to Tenderers registered as Contractors under Ministry of Development, Negara Brunei Darussalam under **Category KPME05, E01, M03 and KA01**. The Tenderer shall furnish the valid registration document stated herein prior to the submission of this quotation in order to carry out the above works.

Additionally, the contractor is also required to do by him / herself or employ suitable local contractors of **Class III and above of Category KPME05, E01, M03 and KA01** registered with Ministry of Development (MOD), Negara Brunei Darussalam with relevant specialist category registration as their domestic sub-contractors to execute such Scope of Works in full. However, it is mandatory for the Tenderer themselves to meet the criteria of having a valid registration with Ministry of Development under Class III or above with a **minimum categories of KPME05, E01, M03 and KA01**.

The Tenderers shall submit in their Tender submission, Letter of Undertakings with attached Ministry of Development Registration Certificates from each nominated sub-contractor, in which should clearly state the scope of works undertaken by the respective sub-contractor.

The Tenderer is required to submit the **updated and valid** Company Registration Certificate (Form 16/17 or Form X) and Ministry of Development’s Registration Certificate together with their quotation. **Non-compliance with the conditions in any respect shall render the tender liable for rejection.**

Tenderers **MUST** submit with their quotation a complete list of the following Appendices:

<u>Appendix</u>	<u>Description</u>
A	LIST OF PREVIOUS JOBS EXPERIENCE OF A SIMILAR NATURE
B	LIST OF CURRENT JOBS IN BRUNEI
C	PROPOSED LIST OF JOBS TO BE SUB-CONTRACTED
D	INFORMATION ON THE DISTRIBUTION OF APPROVED LABOUR QUOTA
E	PROPOSED MANPOWER ALLOCATION AND ADDITIONAL LABOUR QUOTA REQUIRED
F	PROPOSED LIST OF EQUIPMENT TO BE USED FOR THIS PROJECT
G	SITE INSPECTION CERTIFICATE

Articles of Agreement and Condition of Contract

The articles of agreement and conditions of contract to be incorporated into the Contract Documents for this project shall be 'CONTRACT FORM FOR MINOR WORKS' as currently practice in Governments projects within Negara Brunei Darussalam.

Scope of the Works

The main feature of the scope of works to be undertaken by the successful Tenderer is generally to Supply and Install New Usms Three Phase Electric Meter at Flat D, Jalan Bunga Mawar, Royal Brunei Naval Base, Muara Camp. This shall include everything deemed necessary such as materials, labour, plant and equipment, supervision and transportation, etc. for the proper execution of the works all in accordance with specification and bill of quantities stated herein with a satisfactory completion and operational.

All Tenderers are to liaise with the Project Officer for further information prior to preparation of quotation to ascertain on the scope of works. Any ambiguities shall be referred to the Government's Representative whose decision shall be final.

Site Location and Site Visit

The location of site is within the protected area of **Penanjong Garrison**.

All Tenderers are advised to seek assistance from the Project Officer at **+673-8991749 (Mohd Aisamuddin)** or email: aisamuddin.ariffin@mindef.gov.bn for a site visit. The Tenderer shall have taken into account all relevant aspect of the works. The Government reserves the right to accept quotations only from those Tenderers who have conducted site visit.

Payment

The payment will be paid upon the completion of the works to the satisfactory of the Government all in accordance with the document.

Submission

Tenderers are to provide an itemized cost breakdown in their quotes, alongside a filled quotation document of this project with relevant MOD Registration Certificates.

Insurance

Tenderers shall provide all insurances covering the period of construction, any approved extension of time. Successful tenderer must provide Workmen's Compensation, Fire Insurance and Public Liability Insurance.

Commencement of Work

The successful Tenderer shall carry out the work on the date to be specified within the Letter of Award where it shall count as the commencement date of the works.

Completion Period

The successful tenderer shall carry out and complete the works within **FOUR (4) MONTHS** from the date of award.

Validity

The submitted quotation shall remain valid for nine (9) calendar months from the closing date of quotation and no Tenderers may withdraw their quotation within that period.

Lodging of Quotation

Tenderers are to deliver **ONE (1) SET OF HARDCOPY DOCUMENT** and **ONE (1) SET OF SCANNED SOFTCOPY DOCUMENT** in **PDF** of the priced quotation documents duly completed including relevant certificates, appendices and requested information. The scanned softcopy shall be submitted in compact disc (**CD**) in the same envelope as the quotation document.

The quotation is to be lodged not later than **8:00am** to the **quotation submission address provided herein on the day and date as per stated on covering page of this quotation document** in a properly sealed envelope marked:

Quotation for:

JPPK / SH / 24 / 2025-2026

SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING SERVER ROOM AT VARIOUS LOCATIONS AND ASSOCIATED WORKS, PENANJONG GARRISON

Queries

Any queries regarding the quotation and further information can be made to:

Project Engineer

Development Section

Directorate of Development and Work Services

Negara Brunei Darussalam

Tel-M: 8991749

Email: aisamuddin.ariffin@mindef.gov.bn



MINISTRY OF DEFENCE
NEGARA BRUNEI DARUSSALAM

FORM OF QUOTATION

QUOTATION FOR : SUPPLY AND INSTALL CLEAN AGENT FIRE
SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING
SERVER ROOM AT VARIOUS LOCATIONS AND
ASSOCIATED WORKS, PENANJONG GARRISON

QUOTATIONS NO : JPPK / SH / 24 / 2025-2026

CLOSING DATE : 16th JULY 2026 (8:00am) THURSDAY

1. I/We, the undersigned having read the above documents and fully understood the instruction and specification regarding the above project and willing to perform and complete the works within **FOUR (4) months** from the date of site possession for a **sum of**:

Total amount in words: BRUNEI DOLLARS

.....

Total amount in figures: B\$

Company stamp:

.....

2. I/We confirm that the quotation has been calculated on a firm price basis and is inclusive of all necessary allowances to adequately cover price escalation of labour, materials and all other relevant items.
3. I/We agree that this quotation remains open for consideration and acceptance for nine (9) calendar months from the last date for submission of same.
5. I/We hereby agree and note the following: -

Commencement Date : Within Fourteen (14) days from the Date of the Letter of Award

Completion Date : Three (3) months from the Date for Possession of Site

Defects Liability Period : Twelve (12) months from the Date of Completion of the work

Liquidated and Ascertain Damages : $\frac{\text{Contract Amount} \times 15\%}{\text{No. of days of Contract}}$

As WITNESS our hand this _____ day of _____ 2026

SIGNATURE

Signature _____ in the capacity of

_____ duly authorized to

sign tenders on behalf of _____

MOD/ PWD Class : _____

Address : _____

Witness: _____

Address : _____

Designation : _____

Company Stamp: _____

CONTRACT FORM FOR MINOR WORKS

Contract No. _____ of 20 _____
Vote. No. _____

Deliver this TENDER to the _____, **BANGUNAN ARKIB ARAS BAWAH, MINISTRY OF DEFENCE, BOLKIAH GARRISON, BB3510, NEGARA BRUNEI DARUSSALAM** at or before _____ on _____

To: **THE PERMANENT SECRETARY, MINISTRY OF DEFENCE** (i.e. the “Superintending Officer”) for and on behalf of the Government of Brunei Darussalam.

The undersigned (i.e. the “Contractor”, or the Contractor’s heirs, executors, administrators, assignees, successors and duly appointed representative) offers to provide subject to the Conditions below, all the labour, materials, workmanship, tools, machinery and everything necessary for the entire completion to the satisfaction of the Superintending Officer of the works and services in the execution of

as described in the Specification, and / or Drawings marked and numbered **-NIL-**

(which form part of the Contract upon acceptance by both Parties) for the sum
of Brunei Dollars _____

(B\$ _____) i.e. the Contract Sum which shall be payable by the Government or such sum as shall become payable under the Contract and according to the Conditions below, within (*) _____ from the date of possession of site.

Tenderer’s

Signature : _____

Name: _____

Position : _____

(Company Stamp)

(Witness)

Signature : _____

Name: _____

Date : _____

Address: _____

Tel. No: _____

For and on behalf of the Government of Brunei Darussalam, I accept the foregoing Tender under the Conditions expressed.
(MTB Approval Ref. _____ dated _____)

Ministry of Defence

Name : _____

Date: _____

Ministry of Defence

Name : _____

Date: _____

CONDITIONS

1. The term “Superintending Officer” (or S.O.) includes anyone authorised in writing by the Superintending Officer to act on his behalf.	Superintending Officer's Representative
2. (a) All S.O.'s instructions involving variations must be confirmed in writing by the S.O.	S.O.'s Instructions
(b) If the Contractor fails to comply within a reasonable time after he receives the S.O.'s written instruction then the S.O. may employ others to carry out all necessary work and recover all related costs from the Contractor.	
3. Variations do not invalidate the Contract. All authorised variations will be paid or omitted as per :	Variations
(a) Schedule of Rates (current at the time of award); or	
(b) similar or pro-rata rates in the Contract Documents; or	
if (a) and (b) above are not applicable,	
(c) fair rates agreed between the S.O. and the Contractor.	
The final Contract Sum will be adjusted to incorporate the variations.	
4. If the Contractor owes the Government any money under this Contract, the S.O. may deduct it from the Contractors' payments.	Deductions from Payments
5. (a) The Contractor is to make good at his own cost any defects, shrinkages or other faults that appear within the Defects Liability Period (as stated in the Appendix) within a reasonable time after receipt of the S.O.'s written Instruction.	Defects After Completion
(b) If the S.O. considers it is not practical or inconvenient to rectify the defects, the Contractor shall pay for the decrease in the value of the Works as ascertained by the S.O.	
6. The Contractor shall not assign this Contract or sub-contract all or any portion of the Works without the S.O.'s written consent. The consent shall not be unreasonably refused to the prejudice of the Contractor. The Contractor is still solely and personally responsible for making sure that all terms, stipulations and conditions in this Contract are followed by such authorised sub-contractors.	Sub-contracting
7. (a) Injury to persons - The Contractor shall indemnify the Government any liability, loss, claim or legal actions in common law or by statute, which involve personal injuries or death of anyone during or due to the execution of the Works unless due to any act or neglect of the Government or its servants.	Damage to Persons and Property
(b) Injury to property - The Contractor shall be liable for and shall indemnify the Government any liability, loss, claim or legal action or any injury or damage to any property real or personal during or by reason of the Works being carried out as a result of negligence, omission or default of the Contractor, his agents, servants, authorised sub-contractor or to any circumstances within his control.	
(c) Without prejudice to his liability under (a) and (b) above, the Contractor shall :	
(i) take the necessary insurances to cover his liability; and	
(ii) deposit the approved relevant policy/policies and premium receipts with the S.O.; and	
(iii) ensure that his sub-contractors do the same as in (i) and (ii).	
Otherwise the Government may take out the relevant insurances and deduct the premium paid from the Contractor's payments.	
8. Before starting any work under this Contract, the Contractor must take out a Workmen's Compensation policy from an insurance company approved by the S.O. The policy or policies shall provide for compensation for any liabilities and all incidental and consequential costs and expenses to the Contractor and the Government including all its servants due to any legal actions by any workman employed by the Contractor and any sub-contractors in carrying out this Contract.	Workmen's Compensation

9. The Contractor shall insure with an insurance company approved by the S.O. against loss or damage by fire to :	Fire Insurances
(a) all Works and buildings constructed or in the course of construction ; and (b) all materials delivered on to the Site and ready for incorporation in the Works until the Works and buildings are handed over to the S.O.	
10. If the Contractor fails to take out or renew the insurances referred in Clauses 7, 8 and 9 in joint names with the Government, the S.O. may do so and deduct the expenses from the Contractor's payment or payments.	Default
11. (a) Possession of the Site shall be as in the Appendix. If the Contractor fails to complete the Works by the Completion Date (as in the Appendix or as revised according to any extension of time granted by the S.O.), the Contractor shall pay liquidated and ascertained damages (as stated in the Appendix) for each day the Works remain incomplete.	Damages for Non-completion
(b) The S.O. may make a reasonable extension of time if the Works are delayed by <i>force majeure</i> or exceptionally inclement weather or S.O.'s instructions in pursuance of Clause 2 or the Contractor not having received in due time necessary instructions from the S.O. which have been requested in writing or by reason of civil commotion, strike or lock out or any other reasons, which in the opinion of the S.O., is beyond the control of the Contractor.	
12. (a) If the Contractor : (i) wholly suspends the Works before completion without any reasonable cause; or (ii) fails to proceed with the Works with reasonable diligence; or (iii) refuses or persistently neglects after a written notice from the S.O., to remove defective works or improper materials	Determination of Contract
for fourteen (14) days after a notice sent by registered post to the Contractor from the S.O., the S.O. may then determine this Contract by a notice sent by registered post.	
(b) If the Contractor : (i) commits an act of bankruptcy; or (ii) becomes insolvent or compounds with; or (iii) makes any assignments for the benefit of his creditors; or (iv) assigns or sub-contracts the Contract or any portion of the Works without the S.O.'s written consent	
the S.O. may determine this Contract by a notice sent by registered post.	
(c) In either (a) or (b) above, the S.O. may complete the Works by other ways and the Contractor shall pay for all extra costs incurred.	
(d) Termination of Contract for Convenience: i. The Government may at any time by giving not less than thirty (30) days prior written notice to the Contractor, terminate for convenience the Contract as a whole. ii. Upon the giving of any written notice pursuant to Clause 12(d)(i), this Contract will terminate on the date specified in such written notice and, without prejudice to any claim, right or remedy which the Government may have, the following consequences will apply: (a) The Government will be entitled, by written notice to the Contractor, to require the Contractor to immediately stop, discontinue or not commence any or all work or other actions in connection with the Works and/or this Contract. (b) The Government will be entitled to reject the performance or attempted performance by the Contractor of any Works on or after the date of the written notice given pursuant to Clause 12(d)(i).	

- (c) The Government will pay a fair and reasonable price for the Works by the Contractor up to the date of the written notice given pursuant to **Clause 12(d)(i)** provided always that such Works is substantiated by supporting documentation.
- (d) Unless otherwise agreed in writing between the Parties, the Contractor shall immediately [and in any event not later than **five (5) days** from the date of the written notice given pursuant to **Clause 12(d)(i)**] return to the Government possession of all information provided by or on behalf of the Government to the Contractor in connection with the Works and/or this Contract, including any copies thereof. The Contractor shall certify in writing to the Government that it has not retained any such information or any copies of the same and that any and all persons to whom such information (or copies thereof) was given have returned the same to the Government.
- (e) Save for the rights and obligations arising under **Clause 12(d)(i)** and **Clause 12(d)(ii)**, any existing rights and liabilities accrued or accruing (whether under this Contract or otherwise) before the termination of this Contract and any clauses which shall survive the termination of this Contract, neither Party will have any further claims, rights or remedies against the other and all further obligations, duties and liabilities of each Party to the other Party under this Contract will be discharged.

13. The Contractor shall allow and cooperate with others, who are appointed by the Government, to carry out other works on the same site.

Other
Contractors

14. (a) The S.O. shall certify payments for works completed satisfactorily. The value of the first payment shall be fifteen (15) percent of the Contract Sum (or less at the S.O.'s discretion). Subsequent payments shall be certified monthly or otherwise (at the S.O.'s discretion) and on final completion.

Payment

(b) Payments may include seventy-five (75) percent of the value of unfixed materials stored on the site.

(c) Ten percent (10%) of each progress payment shall be retained until the retention sum equals a total of five percent (5%) of the Contract Sum.

(d) The Retention Money shall be paid only when all defects that appear during the Defects Liability Period have been made good by the Contractor under Clause 5 above.

(e) No final payment shall be paid on completion of the Works until the Contractor has satisfied the S.O. by submitting :

(i) a statutory declaration made by or on behalf of the Contractor; or

(ii) a certificate signed by or on behalf of the Commissioner of Labour

Stating that all the workmen employed by the Contractor and his sub-contractor on the Works have received all wages due to them and that all dues have been paid in accordance with the applicable laws and regulations of the relevant authorities in Brunei Darussalam.

15 This Contract is valid only when accepted and signed by an officer authorised to do so on behalf of the Government.

Validity of
Contract

16. The Government shall be entitled to terminate this Contract and to recover from the Contractor the amount of any loss resulting from such termination, if the Contractor shall have offered or given or agreed to give 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 or 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 its behalf shall have committed or abetted or attempted to commit any offence under the Prevention of Corruption Act (Cap. 131) or any offence under Section 161, 162, 163, 164 and 165 or Section 213, 214 and 215 of the Penal Code (Cap. 22).

Gifts

17. i. This Contract shall be governed by and construed in accordance with the laws of Brunei Darussalam.

ii. The Parties shall make every effort to amicably resolve, by direct informal negotiation, and/or mediation any dispute arising between them pursuant to or in connection with this Contract.

iii. If the Parties are unable to amicably resolve any dispute within **thirty (30) days** from the date when such dispute arose, either party shall require that the dispute be referred for resolution by arbitration in accordance with the provisions of the Arbitration Order, 2009.

Governing
Law and
Resolution of
Disputes

- iv. The Arbitration Tribunal shall consist of a single arbitrator, such person to be agreed between the Parties, or failing agreement, to be nominated in accordance with the Arbitration Order, 2009. The applicable rules of Arbitration shall be the UNCITRAL Rules of Arbitration.
- v. The seat and place of arbitration shall be Brunei Darussalam and the language of arbitration shall be English.
- vi. All rights and obligations of the Parties under this Contract shall continue in full force and effect pending the final outcome of such arbitration.
- vii. Any reference to arbitration under this clause shall be a submission to arbitration within the meaning of the Arbitration Order, 2009 for the time being in force in Brunei Darussalam.
- viii. The application of Part II of the International Arbitration Order, 2009 and the Model Law referred thereto, to this Contract is hereby excluded.

APPENDIX

CLAUSE :

5 (a) and 14	_____	Defects Liability Period (if none stated, six (6) months) from date of completion.
11	<u>15% OF CONTRACT SUM PROJECT DURATION(DAYS)</u>	Liquidated and Ascertained Damages
11	_____	Date for Possession of Site.
11	_____	Date of Completion.

GENERAL SPECIFICATIONS FOR TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

TOTAL FLOODING CLEAN-AGENT FIRE SUPPRESSION SYSTEM AUTOMATIC DETECTION / RELEASE SYSTEM

1 GENERAL

1.1 SCOPE

This specification outlines the requirements for a "Total Flood" Clean Agent Fire Suppression System with automatic detection and control. The work described in this specification includes all engineering, labor, materials, equipment and services necessary, and required, to complete and test the suppression system.

1.2 APPLICABLE STANDARDS AND PUBLICATIONS

A. The design, equipment, installation, testing and maintenance of the Clean Agent Suppression System shall be in accordance with the applicable requirements set forth in the latest edition of the following codes and standards

- 1) Requirements of the Fire & Rescue Services Department (Bomba) of Brunei Darussalam.
- 2) NFPA No. 2001 - Clean Agent Fire Extinguishing Systems
- 3) NFPA No. 72 - Standard For Protective Signaling
- 4) Requirements For Electrical Installations BS7671:2008 (2011) the IET Wiring Regulations 17th Edition
- 5) UL Listings

B. The standards listed, as well as all other applicable codes, standards, and good engineering practices shall be used as "minimum" design standards.

1.3 REQUIREMENTS

The Fire Suppression System installation shall be made in accordance with the drawings, specifications and applicable standards. Should a conflict occur between the drawings and specifications, due consultation with the Engineer shall be made as soon as possible, whose decision when made shall be final.

1.4 INCLUSION OF RELATED WORKS

The works listed below shall be deemed to be included as part of this contract :-

- A. Connection of AC power supply to the system control panel.
- B. Interlock wiring and conduit for shutdown of HVAC, dampers and/or electric power supplies, relays or shunt trip breakers.
- C. Connection to local/remote fire alarm systems, listed central alarm station(s) or sprinkler pre-action/deluge valve actuation.

GENERAL SPECIFICATIONS FOR
TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

1.5 QUALITY ASSURANCE

1.5.1 MANUFACTURER

- 1) The manufacturer of the suppression system hardware and detection components shall be ISO 9000 registered.
- 2) The name of the manufacturer shall appear on all major components.
- 3) All devices, components and equipment shall be the products of the same manufacturer.
- 4) All devices, components and equipment shall be new, standard products of the manufacturer's latest design and suitable to perform the functions intended.
- 5) All devices and equipment shall be U.L listed and/or FM approved.
- 6) Locks for all cabinets shall be keyed alike.

1.5.2 INSTALLER

- 1) The installing contractor shall be trained by the supplier to design, install, test and maintain fire suppression systems.
- 2) The installing contractor shall be an experienced firm regularly engaged in the installation of automatic Clean Agent, or similar, fire suppression systems in strict accordance with all applicable codes and standards.
- 3) The installing contractor must have a minimum of five (5) years experience in the design, installation and testing of Clean Agent, or similar, fire suppression systems. A list of systems of a similar nature and scope shall be provided on request.
- 4) The installing contractor shall show evidence that his company carries a minimum \$2,000,000.00 liability and completed operations insurance policy. These limits shall supersede limits required in the general conditions of the specifications.
- 5) The installing contractor shall maintain, or have access to, a Clean Agent recharging station. The installing contractor shall provide proof of his ability to recharge the largest Clean Agent system within 24 hours after a discharge. Include the amount of bulk agent storage available.
- 6) The installing contractor shall be an authorized stocking distributor of the Clean Agent system equipment so that immediate replacement parts are available from inventory.
- 7) The installing contractor shall show proof of emergency service available on a twenty-four-hour-a-day, seven-day-a-week basis.

1.5.3 SUBMITTALS

- 1) The installing contractor shall submit the following design information and drawings for approval prior to starting work on this project:
 - a) Field installation layout drawings having a scale of not less than 1:100 detailing the location of all agent storage tanks, nozzles, pipe runs including pipe sizes and lengths, control panel(s), detectors, manual pull stations, abort stations, audible and visual alarms, etc.
 - b) Auxiliary details and information such as maintenance panels, door holders, special sealing requirements and equipment shutdown.

GENERAL SPECIFICATIONS FOR
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- c) Separate layouts, or drawings, shall be provided for each level, (i.e. ; room, underfloor, and above ceiling) and for mechanical and electrical work.
 - d) A separate layout or drawing shall show isometric details of agent storage containers, mounting details, proposed pipe runs and sizes, and symbol legend.
 - e) Electrical layout drawings shall show the location of all devices and include point-to-point conduit runs and a description of the method(s) used for detector mounting.
 - f) Provide an internal control panel wiring diagram which shall include power supply requirements and field wiring termination points.
 - g) Separate drawing providing symbol legend to identify all symbols used.
 - h) Annunciator wiring schematics and dimensioned display panel illustration shall be provided. (Optional device.)
 - i) Complete hydraulic flow calculations, from a UL listed computer program, shall be provided. Calculation sheet(s) must include the manufacturers name and UL listing number for verification. The individual sections of pipe and each fitting to be used, as shown on the isometrics, must be identified and included in the calculation. Total agent discharge time must be shown and detailed by zone.
 - j) Provide calculations for the battery stand-by power supply taking into consideration the power requirements of all alarms, initiating devices and auxiliary components under full load conditions.
 - k) A complete sequence of operation shall be submitted detailing all alarm devices, shutdown functions, remote signaling, damper operation, time delay and agent discharge for each zone or system.
- 2) Submit drawings, calculations and system component data sheets to the Engineer for approval before starting the installation.

2 SYSTEM REQUIREMENTS

2.1 SYSTEM DESCRIPTION AND OPERATION

- A. The system shall be a Total Flood approved by the Fire & Rescue Services Department (Bomba) of Brunei Darussalam.
- B. The system shall provide a Clean Agent minimum design concentration of 7.2% by volume for Class A hazards and 9.0% by volume for Class B hazards, in all areas and/or protected spaces, at the minimum anticipated temperature within the protected area. System design shall not exceed 10.5% for normally occupied spaces, adjusted for maximum space temperature anticipated, with provisions for room evacuation before agent release.
- C. The system shall be complete in all ways. It shall include all mechanical and electrical installation, all detection and control equipment, agent storage containers, Clean Agent, discharge nozzles, pipe and fittings, manual release and abort stations, audible and visual alarm devices, auxiliary devices and controls, shutdowns, alarm interface, caution/ advisory signs, functional checkout and testing,

GENERAL SPECIFICATIONS FOR
TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

training and all other operations necessary for a functional, UL Listed and/or FM approved Clean Agent Suppression System.

D. Provide two (2) inspections during the first year of service. Inspections shall be made at 6-month intervals commencing when the system is first placed into normal service.

E. The Contractor shall be responsible for sealing and securing the protected spaces against agent loss and/or leakage during the 10-minute "hold" period.

F. The system(s) shall be actuated by a combination of ionization and/or photoelectric detectors installed for maximum area coverage of 250 sq. ft. (23.2 m²) per detector, in both the room, underfloor and above ceiling protected spaces. If the airflow is one air change per minute, photoelectric detectors only shall be installed for maximum area coverage of 125 sq. ft. (11.6 m²) per detector. (Ref. NFPA No. 72.)

G. Detectors shall be Cross-Zoned detection requiring two detectors to be in alarm before release.

H. Automatic operation of each protected area shall be as follows:

1) Actuation of one (1) detector, within the system, shall:

- a) Illuminate the "ALARM" lamp on the control panel face.
- b) Energize an alarm bell and/or an optional visual indicator.
- c) Transfer auxiliary contacts which can perform auxiliary system functions such as:
 - 1) Operate door holder/closures on access doors,
 - 2) Transmit a signal to a fire alarm system,
 - 3) Shutdown HVAC equipment.
- d) Light an individual lamp on an optional annunciator.

2) Actuation of a 2nd detector, within the system, shall:

- a) Illuminate the "PRE-DISCHARGE" lamp on the control panel face.
- b) Energize a pre-discharge horn or horn/strobe device.
- c) Shut down the HVAC system and/or close dampers.
- d) Start time-delay sequence (not to exceed 60 seconds).
- e) System abort sequence is enabled at this time.
- f) Light an individual lamp on an optional annunciator.

3) After completion of the time-delay sequence, the Clean Agent system shall discharge and the following shall occur:

- a) Illuminate a "SYSTEM FIRED" lamp on the control panel face.
- b) Shutdown of all power to high-voltage equipment
- c) Energize a visual indicator(s) outside the hazard in which the discharge occurred.
- d) Energize a "System Fired" audible device. (Optional, subject to Bomba's approval)

4) The system shall be capable of being actuated by manual discharge devices located at each hazard exit. Operation of a manual device shall duplicate the sequence description above except

GENERAL SPECIFICATIONS FOR TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

that the time delay and abort functions shall be bypassed. The manual discharge station shall be of the electrical actuation type and shall be supervised at the main control panel.

2.2 MATERIALS AND EQUIPMENT

2.2.1 GENERAL REQUIREMENTS

- 1) The Clean Agent System materials and equipment shall be standard products of the supplier's latest design and suitable to perform the functions intended. When one or more pieces of equipment must perform the same function(s), they shall be duplicates produced by one manufacturer.
- 2) All devices and equipment shall be UL Listed and/or FM approved.
- 3) All devices and equipment shall be of a make and model approved by the Fire & Rescue Services Department (Bomba) of Brunei Darussalam

2.2.2 CLEAN AGENT STORAGE AND DISTRIBUTION

- 1) Each system shall have its own supply of clean agent.
- 2) The system design can be modular, central storage, or a combination of both design criteria.
- 3) Systems shall be designed in accordance with the manufacturer's guidelines.
- 4) Each supply shall be located within the hazard area, or as near as possible, to reduce the amount of pipe and fittings required to install the system.
- 5) The clean agent shall be stored in the manufacturer's Agent Storage Containers. Containers shall be super-pressurized with dry nitrogen to an operating pressure of 360 psi @ 70 °F (24.8 bar at 20 °C). Containers shall be of high-strength low alloy steel construction and conform to NFPA 2001.
- 6) Containers shall be actuated by a resettable electric actuator with mechanical override located at each agent container or connected bank of cylinders. Non-resettable or explosive devices shall not be permitted.
- 7) Each container shall have a pressure gauge and low pressure switch to provide visual and electrical supervision of the container pressure. The low-pressure switch shall be wired to the control panel to provide an audible and visual "Trouble" alarms in the event the container pressure drops below 247 psi (17 bar). The pressure gauge shall be color coded to provide an easy, visual indication of container pressure.
- 8) Each container shall have a pressure relief provision that automatically operates before the internal pressure exceeds 750 psi (51.7 bar).
- 9) Engineered discharge nozzles shall be provided within the manufacturer's guidelines to distribute the Clean Agent throughout the protected spaces. The nozzles shall be designed to provide proper agent quantity and distribution.
 - a. Nozzles shall be available in 3/8 in. through 2 in. (BPS 10 mm through 50 mm) pipe sizes. Each size shall be available in 180° and 360° distribution patterns.
 - b. Ceiling plates can be used with the nozzles to conceal pipe entry holes through ceiling tiles.
- 10) Distribution piping, and fittings, shall be installed in accordance with the manufacturer's requirements, NFPA 2001 and approved piping standards and guidelines. All distribution piping shall be installed by qualified individuals using accepted practices and quality procedures. All

GENERAL SPECIFICATIONS FOR
TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

piping shall be adequately supported and anchored at all directional changes and nozzle locations.

- a) All piping shall be reamed, blown clear and swabbed with suitable solvents to remove burrs, mill varnish and cutting oils before assembly.
- b) All pipe threads shall be sealed with Teflon tape pipe sealant applied to the male thread only.

2.2.3 CONTROL PANEL

1. The control system and its components shall be UL listed and FM approved for use as a local fire alarm system with releasing device service.
2. The control system shall perform all functions necessary to operate the system detection, actuation and auxiliary functions.
3. The control system shall include battery standby power to support 24 hours in standby and 5 minutes in alarm.
4. The control system shall be microprocessor based utilizing a distributed processing concept. A single microprocessor failure shall not impact operation of additional modules on the system.
5. The control system shall be capable of supporting Cross Zoned Detection.
6. The control system shall supply integrated 2.0 amp power supply circuitry.
7. Each control system shall have four (4) initiating circuits.
 - a) Each circuit shall be capable of Class A (Style D) or Class B (Style A) operation.
 - b) Each circuit shall be capable of operating up to fifteen (15) approved detectors for thirty (30) detectors per system.
 - c) Each circuit shall be capable of monitoring contact devices configured for manual release, manual alarm, system abort, trouble input or auxiliary (non-fire) input.
8. Each control shall contain release circuits for activation of an extinguishing/suppression system(s).
 - a) Each circuit shall be capable of Class B (Style Y) operation.
 - b) Each circuit shall be rated for 1.5 amp @ 24 VDC.
9. Each control system shall contain two (2) indicating appliance circuits for annunciation.
 - a) Each circuit shall be capable of Class A (Style B) or Class B (Style Y) operation.
 - b) Each circuit shall be rated for 1.5 amp @ 24 VDC.
10. Each control system shall provide an auxiliary power supply rated for 2 amps @ 24 VDC.
11. Each control system shall provide two (2) SPST relays: one for common alarm and one for common trouble.

2.2.4 DETECTORS

- 1) The detectors shall be spaced and installed in accordance with the manufacturer's specifications and the guidelines of NFPA 72.
- 2) Only Ionization and Photoelectric detectors shall be used.

2.2.5 MANUAL RELEASE (Electric)

- 1) The electric manual release switch shall be a dual action device which provides a means of manually discharging the Suppression System when used in conjunction with the control system.
- 2) The Manual Release switch or Manual Pull station shall be a dual action device requiring two distinct operations to initiate a system actuation.

GENERAL SPECIFICATIONS FOR
TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

- 3) Manual actuation shall bypass the time delay and abort functions shall cause the system to discharge and shall cause all release and shutdown devices to operate in the same manner as if the system had operated automatically.
- 4) A Manual Release switch shall be located at each exit from the protected hazard.

2.2.6 ABORT STATION (Optional)

- 1) The optional Abort Station shall be the "Dead Man" type and shall be located next to each manual switch.
- 2) The Abort Station shall be supervised and shall indicate a trouble condition at the control panel, if depressed, and no alarm condition exists.
- 3) "Locking" or "Keyed" abort stations shall not be permitted.

2.2.7 AUDIBLE and VISUAL ALARMS

- 1) Alarm audible and visual signal devices shall operate from the control panel.
- 2) A Strobe device shall be placed outside, and above, each exit door from the protected space. Provide an advisory sign at each light location.

2.2.8 CAUTION and ADVISORY SIGNS

Signs shall be provided to comply with NFPA 2001 and the recommendations of the Clean Agent equipment supplier.

- 1) Entrance sign: (1) required at each entrance to a protected space.
- 2) Manual discharge sign: (1) required at each manual discharge station.
- 3) Flashing light sign: (1) required at each flashing light over each exit from a protected space.

2.2.9 SYSTEM and CONTROL WIRING

- 1) All system wiring shall be furnished and installed by the contractor.
- 2) All wiring shall be installed in electrical metallic tubing (EMT), or conduit, and must be installed and kept separate from all other building wiring.
- 3) All system components shall be securely supported independent of the wiring. Runs of conduit and wiring shall be straight, neatly arranged, properly supported, and installed parallel and perpendicular to walls and partitions.
- 4) The sizes of the conductors shall be those specified by the manufacturer. Color coded wire shall be used. All wires shall be tagged at all junction points and shall be free from shorts, earth connections (unless so noted on the system drawings), and crosses between conductors. Final terminations between the control panel and the system field wiring shall be made under the direct supervision of a factory-trained representative.
- 5) All wiring shall be installed by qualified individuals, in a neat and workmanlike manner, to conform to the Requirements For Electrical Installations BS7671:2008 (2011) the IET Wiring Regulations 17th Edition.
- 6) The complete system electrical installation, and all auxiliary components, shall be connected to earth ground in accordance with the IET Wiring Regulations 17th Edition.

GENERAL SPECIFICATIONS FOR TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

3 TESTING AND DOCUMENTATION

3.1 SYSTEM INSPECTION and CHECKOUT

After the system installation has been completed, the entire system shall be checked out, inspected and functionally tested by qualified, trained personnel, in accordance with the manufacturer's recommended procedures and NFPA standards.

A. All containers and distribution piping shall be checked for proper mounting and installation.

B. All electrical wiring shall be tested for proper connection, continuity and resistance to earth.

C. The complete system shall be functionally tested, in the presence of the Owner or his representative, and all functions, including system and equipment interlocks, must be operational at least five (5) days prior to the final acceptance tests.

1) Each detector shall be tested in accordance with the manufacturer's recommended procedures, and test values recorded.

2) All system and equipment interlocks, such as door release devices, audible and visual devices, equipment shutdowns, local and remote alarms, etc. shall function as required and designed.

3) Each control panel circuit shall be tested for trouble by inducing a trouble condition into the system.

3.2 TRAINING REQUIREMENTS

Prior to final acceptance, the installing contractor shall provide operational training to each shift of the Owner's personnel. Each training session shall include control panel operation, manual and (optional) abort functions, trouble procedures, supervisory procedures, auxiliary functions and emergency procedures.

3.3 OPERATION AND MAINTENANCE

Prior to final acceptance, the installing contractor shall provide complete Operation and Maintenance instruction manuals, four (4) copies for each system, to the Owner. All aspects of system operation and maintenance shall be detailed, including piping isometrics, wiring diagrams of all circuits, a written description of the system design, sequence of operation and drawing(s) illustrating control logic and equipment used in the system. Checklists and procedures for emergency situations, troubleshooting techniques, maintenance operations and procedures shall be included in the manual.

3.4 RECORD DRAWINGS

Upon completion of each system, the installing contractor shall provide four (4) copies of system "Record Drawings" to the Owner. The drawings shall show actual installation details including all equipment locations (i.e. : control panel(s), agent container(s), detectors, alarms, manuals and aborts, etc.) as well as piping and conduit routing details. Show all room or facilities modifications, including door and/or damper installations completed. One (1) copy of reproducible engineering drawings shall be provided reflecting all actual installation details.

GENERAL SPECIFICATIONS FOR
TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

3.5 ACCEPTANCE TESTS

- A. At the time "Record Drawings" and Operation & Maintenance instruction manuals are submitted, the installing contractor shall submit a "Test Plan" describing procedures to be used to test the control system(s). The Test Plan shall include a step-by-step description of all tests to be performed and shall indicate the type and location of test apparatus to be employed. The tests shall demonstrate that the operational and installation requirements of this specification have been met. All tests shall be conducted in the presence of the Owner or his representative and shall not be conducted until the Test Plan has been approved.
- B. The tests shall demonstrate that the entire control system functions as designed and intended. All circuits shall be tested: automatic actuation, solenoid and manual actuation, HVAC and power shutdowns, audible and visual alarm devices and manual override of abort functions. Supervision of all panel circuits, including AC power and battery power supplies, shall be tested and qualified.
- C. A room pressurization test shall be conducted, in each protected space, to determine the presence of openings which would affect the agent concentration levels. The test(s) shall be conducted using the Retro-Tec Corp. Door Fan system, or equivalent, with integrated computer program. All testing shall be in accordance with NFPA 2001, Appendix B.
- D. If room pressurization testing indicates that openings exist which would result in leakage and/or loss of the extinguishing agent, the installing contractor shall be responsible for coordinating the proper sealing of the protected space(s) by the Contractor or his sub-contractor or agent. The Contractor shall be responsible for adequately sealing all protected space(s) against agent loss or leakage. The installing contractor shall inspect all work to ascertain that the protected space(s) have been adequately and properly sealed. THE SUPPRESSION SYSTEM INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUCCESS OF THE ROOM PRESSURIZATION TESTS. If the first room pressurization test is not successful, in accordance with these specifications, the installing contractor shall direct the general contractor to determine, and correct, the cause of the test failure. The installing contractor shall conduct additional room pressurization tests, at no additional cost to the Owner, until a successful test is obtained. Copies of successful test results shall be submitted to the Owner for record. Upon acceptance by the Owner, the completed system(s) shall be placed into service.

3.6 SYSTEM INSPECTIONS

- A. The installing contractor shall provide two (2) inspections of each system, installed under this contract, during the one-year warranty period. The first inspection shall be at the six months interval, and the second inspection at the 12-month interval, after system acceptance. Inspections shall be conducted in accordance with the manufacturer's guidelines and the recommendations of NFPA 2001.
- B. Documents certifying satisfactory system(s) operation shall be submitted to the Owner upon completion of each inspection.

GENERAL SPECIFICATIONS FOR
TOTAL FLOOD CLEAN-AGENT FIRE SUPPRESSION SYSTEM

3.7 WARRANTY

All equipment and system components furnished and installed under this contract shall be warranted against defects in design, materials and workmanship for the full warranty period which is standard with the manufacturer, but in no case shall be less than Defect Liability Period of the Contract.

(All quantities are provisional and will be subject to final measurement)

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$ Cts
1	<u>INSURANCE</u> Allow for all expenses incurred including payment of premiums for providing insurance policies from an approved insurance company registered locally and which shall be valid up to the end of the maintenance period as follows				Notes
1.1	Public liability Policy including compensation for the cable damage during trial excavation. The limit of indemnity for the Public Liability is to B\$ 1,000,000.00 per accident with the number of accidents limited				
2	<u>BASIC EQUIPMENT STANDARDS AND REGULATIONS</u> All work, equipment and materials to be supplied and installed under this contract, shall be first grade design and manufacture. Equipment and materials shall comply with British standards. The installation and all equipment shall conform to the IEE Wiring Regulation; Electrical Installations Requirements issued by the Department of Electrical Services (latest edition) Services; and appropriate British Standards Code of Practice. Samples of equipment, accessories and fittings intended for use in the project shall be submitted to the S.O. for approval prior to placing orders. Failure to submit samples may result in the equipment being rejected Price quoted should be firm CIF and inclusive of custom duties, taxes, fees, insurance, mobilization, demobilization, liaison with other, safety, making good to existing installation, site clearing, removal of existing equipment and transportation to the sites. The following works shall be carried out by the contractor registered with DES, MOD, ABCi and relevant local authority of Brunei Darussalam.				Notes
					Notes
Total brought forward to B\$					

**SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING
SERVER ROOM AND ASSOCITED WORKS AT VARIOUS LOCATIONS ASSOCIATED WORK,
PENANJONG GARRISON**
(All quantities are provisional and will be subject to final measurement)

BILL NO. 1 - GENERAL AND PRELIMINARIES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$ Cts
3	<u>SITE CONDITION</u> Contractor is advised to visit the site for exact measurement the information given is purely as guidance only.				Notes
Total brought forward to Summary Page B\$					

SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING SERVER ROOM AND ASSOCIATED WORKS AT VARIOUS LOCATIONS ASSOCIATED WORK, PENANJONG GARRISON

(All quantities are provisional and will be subject to final measurement)

BILL NO. 2 - CLEAN AGENT FIRE SUPPRESSION SYSTEM, SERVER ROOM

ITEM	DESCRIPTION	UNIT	QTY	RATE (BND)	AMOUNT (BND)
1	<u>CLEAN AGENT FIRE SUPPRESSION SYSTEM</u> <u>VARIOUS LOCATIONS:</u> <u>Cawangan Latihan Semboyan:-</u> <u>- New Server Room</u>				
1.1	Supply and install complete Total Flood Clean Agent Fire Suppression System FM200 for the new Server Room. Rate to include but not limited to the following: – 2 Zone (minimum) Gas Suppression Panel – 1 no. "Gas Discharge Sign" – 1 no. "Evacuate Sign" – 1 no. "Safe to Enter Sign" – 1 no. Manual Release Station – 1 no. Abort Switch Station – 1 no. Siren with Flashing Light – 1 no. 150mm Diameter Alarm Bell – 2 nos. Smoke Detectors – 2 nos. Heat Detectors – 1 no. Exhaust Fan – Interlocking On/Off Swtch for Exhaust Fan – 1 no. Fire Suppression Tank with capacity suitable for room floor area – Interconnecting wiring between suppression panel to alarm devices, signages, exhaust fans, air-conditioning equipment, switches, etc. – Interlocking wiring between suppression panel to alarm devices, signages, exhaust fans, air-conditioning equipment, switches, etc. – Interconnecting piping between discharge nozzles and tank including all related piping accessories such as valves, etc. Rate to include supply and installation of discharge nozzles, support brackets, etc for pipe works. – Connecting to Existing Fire Alarm Panel and signalling to Bomba Head Office.	No	1		
1.2	Manufacturer/Supplier's shopdrawing in A3 size of the complete gas suppression system indicating piping routing layout, system diagrammatic drawing, gas panel layout, and schematic diagram, sizing calculation of tanks, etc.	No	1		
Total brought forward to B\$					

SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING SERVER ROOM AND ASSOCIATED WORKS AT VARIOUS LOCATIONS ASSOCIATED WORK, PENANJONG GARRISON

(All quantities are provisional and will be subject to final measurement)

BILL NO. 2 - CLEAN AGENT FIRE SUPPRESSION SYSTEM, SERVER ROOM

ITEM	DESCRIPTION	UNIT	QTY	RATE (BND)	AMOUNT (BND)
2	<u>CLEAN AGENT FIRE SUPPRESSION SYSTEM</u> <u>VARIOUS LOCATIONS:</u> <u>Markas Batalion Bantu:-</u> <u>-New Server Room</u>				
2.1	Supply and install complete Total Flood Clean Agent Fire Suppression System FM200 for the new Server Room. Rate to include but not limited to the following: – 2 Zone (minimum) Gas Suppression Panel – 1 no. "Gas Discharge Sign" – 1 no. "Evacuate Sign" – 1 no. "Safe to Enter Sign" – 1 no. Manual Release Station – 1 no. Abort Switch Station – 1 no. Siren with Flashing Light – 1 no. 150mm Diameter Alarm Bell – 2 nos. Smoke Detectors – 2 nos. Heat Detectors – 1 no. Exhaust Fan – Interlocking On/Off Swtch for Exhaust Fan – 1 no. Fire Suppression Tank with capacity suitable for room floor area – Interconnecting wiring between suppression panel to alarm devices, signages, exhaust fans, air-conditioning equipment, switches, etc. – Interlocking wiring between suppression panel to alarm devices, signages, exhaust fans, air-conditioning equipment, switches, etc. – Interconnecting piping between discharge nozzles and tank including all related piping accessories such as valves, etc. Rate to include supply and installation of discharge nozzles, support brackets, etc for pipe works. – Connecting to Existing Fire Alarm Panel and signalling to Bomba Head Office.	No	1		
2.2	Manufacturer/Supplier's shopdrawing in A3 size of the complete gas suppression system indicating piping routing layout, system diagrammatic drawing, gas panel layout, and schematic diagram, sizing calculation of tanks, etc.	No	1		
Total brought forward to Summary Page B\$					

**SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING
SERVER ROOM AND ASSOCITED WORKS AT VARIOUS LOCATIONS ASSOCIATED WORK,
PENANJONG GARRISON**

(All quantities are provisional and will be subject to final measurement)

BILL NO. 3 - SUPPLY AND INSTALL ASSOCIATED WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE (BND)	AMOUNT (BND)
1	<u>ASSOCIATED WORK</u>				
1.1	<u>Cawangan Latihan Semboyan</u>				
1.1.1	To supply and install smoke detector c/w base and to be connected to existing fire alarm panel. Brand:..... Country of Origin: Warranty:	No	10		
1.2	<u>Markas Medan Tentera Darat Diraja Brunei</u>				
1.2.1	To relocate fire hose reel pipe at new Server room	No	1		
1.2.2	Supply and install aluminium louvre wall with integrated aluminium louvre door and associated roof canopy, including all necessary accessories, flashing, structure supports, weatherproofing, seals, fixings and trims. Make good all distributed finishes and reinstate adjacent surfaces. Work to comply with manufacturer's recommendations and relevant standards. (Locations: Ground floor outside the server room as shown in the drawing) Brand:..... Country of Origin: Warranty:	m2	20		
1.2.3	To repair or replace aluminium door push bar mechanism including all the necessary fixture and fittings for the completion of the works.	Lot	1		
Total brought forward to B\$					

**SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING
SERVER ROOM AND ASSOCITED WORKS AT VARIOUS LOCATIONS ASSOCIATED WORK,
PENANJONG GARRISON**

(All quantities are provisional and will be subject to final measurement)

BILL NO. 4 - PROVISIONAL SUM

ITEM	DESCRIPTION	UNIT	QTY	RATE (BND)	AMOUNT (BND)
1	<u>PROVISIONAL SUM</u> Allow provisonal sum of B\$5,000.00 (Five Thousand only) for any unforeseen necessary works required during the repairs and installation. Sum to be expend or deducted as directed by the S.O / Engineer and deducted in whole or in part if not required.	Lot	1		5,000.00
Total brought forward to Summary Page B\$					

SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING
 SERVER ROOM AND ASSOCITED WORKS AT VARIOUS LOCATIONS ASSOCIATED WORK,
 PENANJONG GARRISON

SUMMARY OF PRICE

BILL NO.	BILL TITLE	AMOUNT BND
	SUMMARY OF BILLS OF QUANTITY	
1	GENERAL AND PRELIMINARIES	
2	CLEAN AGENT FIRE SUPPRESSION SYSTEM, SERVER ROOM	
3	ASSOCIATED WORKS	
4	PROVISIONAL SUM	
TOTAL CARRY FORWARD TO FORM OF QUOTATION		

LIST OF PREVIOUS JOBS EXPERIENCE OF A SIMILAR NATURE

(SENARAI KERJA-KERJA YANG TERDAHULU YANG MEMPUNYAI PERSAMAAN DENGANNYA)

Pemborong hendaklah menyatakan kerja-kerja terdahulu yang telah Siap atau Sedang dalam pengendalian.

Tenderers must give details of their experience on works of a similar nature.

No.	Nama Projek (Name of Project)	Nama Kerja (Description of Work)	Harga (Value of Contract)	Kerja dimulakan (Dates Undertaken)	(Names of Employer and Architect/ Engineer Responsible)

Tandatangan Saksi:
(Signature of Witness):

.....

Tarikh:
(Date)

Tandatangan Pemborong:
(Signature of Tenderer):

.....

Tarikh:
(Date)

LIST OF CURRENT JOBS IN NEGARA BRUNEI DARUSSALAM

(SENARAI KERJA-KERJA YANG SEDANG DIBUAT DI-NEGARA BRUNEI DARUSSALAM)

No.	Nama Projek (Name of Project)	Letak (Location)	Harga (Cost)	Tarikh Siap (Date Completed)	% Kerja yang telah dibuat (% completed)

Tandatangan Saksi:
(Signature of Witness):

.....

Tarikh:
(Date)

Tandatangan Pemborong:
(Signature of Tenderer):

.....

Tarikh:
(Date)

PROPOSED LIST OF JOBS TO BE SUB-CONTRACTED

(SENARAI KERJA-KERJA YANG AKAN DI SUB-KONTRAK)

Bil. (No.)	Kerja-Kerja (Works)	Kepada (To)	Ulasan (Remarks)

Tandatangan Saksi:
(Signature of Witness):

.....

Tarikh:
(Date)

Tandatangan Pemborong:
(Signature of Tenderer):

.....

Tarikh:
(Date)

INFORMATION ON THE DISTRIBUTION OF APPROVED LABOUR QUOTA

(MAKLUMAN MENGENAI DENGAN PENGGUNAAN QUOTA BURUH)

Bil. Quota Buruh yang telah dibenarkan:
(Quota number approved)

Tarikh:
(Date of approval)

Jumlah dibenarkan:
(Total no. approved)

Senarai kerja-kerja yang sedang menggunakan Quota Buruh & jumlahnya:
(List of current jobs on approved labour quota)

Bil. (No.)	Name Projek (Name of Project)	Jumlah Tenaga Manusia (No. of quota used)
	Jumlah : (Total) :	
	Baki yang belum digunakan : (Balance of labour quota not used) :	

Tandatangan Saksi:
(Signature of Witness):

.....

Tarikh:
(Date)

Tandatangan Pemborong:
(Signature of Tenderer):

.....

Tarikh:
(Date)

Pemborong dikira memasukkan harga bagi menyediakan wang tahanan kepada Pejabat Buruh bagi pekerja-pekerja asing mereka dan tidak ada tambahan harga akan diberi bagi perkara ini.

(Tenderers are deemed to include costs of providing deposits to Labour Department for their foreign workers and no claims will be entertained on this matter).

Tarikh:
(Date)

PROPOSED LIST OF EQUIPMENT TO BE USED FOR THIS JOB (IF SUCCESSFUL)

(SENARAI PERKAKAS-PERKAKAS & KENDERAAN YANG AKAN
DIGUNAKAN UNTUK PROJEK)

Bil. No.	Jenis (Type)	Jumlah (Quantity)	Model No.	Muatan (Capacity)	Ulasan (Remark)

Tandatangan Saksi:
(Signature of Witness):

.....

Tarikh:
(Date)

Tandatangan Pemborong:
(Signature of Tenderer):

.....

Tarikh:
(Date)



CERTIFICATE OF SITE INSPECTION

In respect of the Tender for **JPPK/SH/24/2025-2026 – SUPPLY AND INSTALL CLEAN AGENT FIRE SUPPRESSION SYSTEM FM200 FOR NEW AND EXISTING SERVER ROOM AT VARIOUS LOCATIONS AND ASSOCIATED WORKS, PENANJONG GARRISON** between the Government of His Majesty the Sultan and Yang Di-Pertuan of Brunei Darussalam, represented by the Ministry of Defence (hereinafter referred to as the “Government”) and * (hereinafter referred to as the “Contractor”).

We, the Contractor, hereby certify, represent and warrant that we have fully inspected the site with the Government’s authorised representative, and are well aware of the existing/expected conditions and matters, which may affect the cost of the performance of the Works as required for the above Contract.

All inherent site condition reasonably foreseeable have been considered and priced accordingly in the Tender.

SITE INSPECTED BY:
CONTRACTOR

VERIFIED BY:
GOVERNMENT

.....
[Signature]

.....
[Signature]

Name:

Name:

.....

.....

Position:

Position:

Date:

Date:

.....
[Company Stamp]

.....
[DDWS Stamp]

*The Contractor’s Company name