

BAHAGIAN BANGUNAN DAN PEMELIHARAAN
KEMENTERIAN HAL EHWAL UGAMA
NEGARA BRUNEI DARUSSALAM

TAWARAN SEBUT HARGA

BIL. SEBUT HARGA: KHEU / BDP / 164 / 013 / 2025

TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR CONDITIONING EQUIPMENT SYSTEM TO
OFFICES UNDER JABATAN HAL EHWAL MASJID IN FOUR (4) DISTRICTS FOR A PERIOD OF TWENTY-FOUR (24) MONTHS

TARIKH TUTUP TAWARAN : 09 April 2025 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 III dan Kategori M01 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 B\$5.00 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 hanya 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.


(Ar. HAJI AWANG AZMI BIN HAJI AWANG TAHIR)
Ketua Bahagian Bangunan dan Pemeliharaan
Kementerian Hal Ehwal Ugama
Negara Brunei Darussalam



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

QUOTATION NO.: KHEU / BDP / 164 / 013 / 2025

PROJECT : TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR
WORKS FOR AIR CONDITIONING EQUIPMENT SYSTEM TO OFFICES UNDER
JABATAN HAL EHWAL MASJID IN FOUR (4) DISTRICTS FOR A PERIOD OF
TWENTY-FOUR (24) MONTHS

CLASS : III

CATEGORY : M01

CLOSING DATE : WEDNESDAY 09 APRIL 2025 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



TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR CONDITIONING EQUIPMENT
SYSTEM TO OFFICES UNDER JABATAN HAL EHWAL MASJID IN FOUR (4) DISTRICTS FOR A PERIOD OF TWENTY-FOUR (24)
MONTHS

TABLE OF CONTENT

<u>DESCRIPTION</u>	<u>PAGE</u>
1. TERMS AND CONDITIONS OF TENDERING (FOR QUOTATION WORKS)	TOC/1
2. FORM OF CONTRACT	FC/1
3. TERMS OF QUOTATION	TOQ/1 - TOQ/4
4. DECLARATION FORM	DF/1
5. SCOPE OF WORK	SW/1 - SW/9
6 SCHEDULE OF FIXED RATES	B1-1/1 - B12-2/2
7 LIST OF CONSUMABLE ITEMS	LOCI-1 - LOCI-2
8 APPENDIX	AP/1-AP/8

* - 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 Receipt 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 necessary 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 **BS 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 09 April 2025 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 / 013 / 2025 Quotation Closing Date : 09 April 2025
Project Title : TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR CONDITIONING EQUIPMENT SYSTEM TO OFFICES UNDER JABATAN HAL EHWAL MASJID IN FOUR (4) DISTRICTS FOR A PERIOD OF TWENTY-FOUR (24) MONTHS





BUILDING AND MAINTENANCE SECTION
MINISTRY OF RELIGIOUS AFFAIRS
NEGARA BRUNEI DARUSSALAM

Quotation For : TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR CONDITIONING EQUIPMENT SYSTEM TO OFFICES UNDER JABATAN HAL EHWAL MASJID IN FOUR (4) DISTRICTS FOR A PERIOD OF TWENTY-FOUR (24) MONTHS

Quotation No. : KHEU / BDP / 164 / 013 / 2025 Closed on : 09 April 2025 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 24 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. : _____
2.4 Date : _____

Fax No. : _____
Email : _____

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



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 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 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 Convenience

- (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	<p>Completion Date:</p> <p>(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)</p> <p>For Term Contract, the Contract shall ends when the following conditions are met:</p> <p>(a) The actual expiration of the Contract Period; or</p> <p>(b) The limit of the Approximate Maximum Total Value of All Job Orders have been reached;</p> <p>Whichever of the above comes first but subject to Clause 3.2 and Clause 4.0.</p>	_____
2.0	<p>Liquidated and Ascertained Damages (LAD):</p> <p>(If none stated, then the Contract Administrator may certify a reasonable sum as compensation for delay)</p> <p>$\frac{\text{Total Contract Sum}}{\text{Total Contract Period (No. of Days)}} \times 15\%$</p>	B\$ _____ per day
3.0	<p>Shortfalls / Defects Liability Period:</p> <p>(If none stated, SIX (6) MONTHS from the date of completion)</p>	_____ Months
4.0	<p>Retention Sum:</p> <p>(If none stated, FIVE (5%) PERCENT of the Contract Sum)</p>	_____ % of the Contract
5.0	<p>Minimum and Maximum Values of Job Orders:</p> <p>Minimum value of any one Job Order to be issued</p> <p>Maximum value of any one Job Order to be issued</p> <p>(If none stated, the maximum value to be issued must be capable of being carried out and completed within the Contract Period)</p>	\leq B\$ _____ \geq B\$ _____
6.0	<p>Approximate Maximum Total Value of All Job Orders for the Contract Period:</p> <p>(If not stated, NOT MORE THAN \$50,000.00 - BRUNEI DOLLARS FIFTY THOUSANDS)</p> <p>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.</p>	\leq B\$ 25,000.00



DECLARATION FORM



BORANG PENGAKUAN
DECLARATION FORM

BILANGAN SEBUT HARGA
(*QUOTATION NO.*)

: KHEU / BDP / 164 / 012 / 2025

TAJUK SEBUT HARGA
(*QUOTATION TITLE*)

: TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR
CONDITIONING EQUIPMENT SYSTEM TO OFFICES UNDER JABATAN HAL EHWAL MASJID IN
FOUR (4) DISTRICTS FOR A PERIOD OF TWENTY-FOUR (24) 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. Paspal Antarabangsa <i>Brunei Identity Card No. & Colour/ International Passport No.</i>	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

SCOPE OF WORKS



SCOPE OF WORKS

TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR CONDITIONING EQUIPMENT SYSTEM TO OFFICES UNDER JABATAN HAL EHWAL MASJID IN FOUR (4) DISTRICTS FOR A PERIOD OF TWENTY-FOUR (24) MONTHS

1.0 GENERAL

The works to be performed under this schedule comprises of General and Routine Maintenance of DX Package Type, Split Unit & Room Type of Air Conditioning, breakdown attendance, supply of defective parts and air conditioning replacement works as instructed by and to the satisfaction of OIC/SO for period stipulated in this Tender.

2.0 MAINTENANCE & SERVICES OF AIR CONDITIONING EQUIPMENT, SYSTEM AND PLANT

The works to be performed under this Tender is for a period of **TWELVE (12) months**. Contractors shall be responsible to attend, report and investigate all nature of breakdown (location of site as attached), also to attend all minor breakdown in order to put back the plant/equipment into full working condition, in writing, to attend all of breakdown c/w free replacement of defective parts, materials and workmanship for all the equipment that are under defects liability period until the issue of certificate of final acceptance of completion.

3.0 MANPOWER AND LIST OF LOCATIONS

Contractor shall provide registered and qualified personal (as approved by OIC/SO) when carrying out Routine and General schedule maintenance works, Interim Maintenance & Breakdown attendance and replacement works for unit/parts of RAC, split, VRF, PAC and DX Package type and other associated equipment.

Manpower as stated above are responsible but not limited to as the following:

- To attend all breakdown calls/complaint as instructed by OIC
- To carry out repair and replacement works where required (parts supplied separately) to run the equipment back to normal working order.
- To ensure and maintain good housekeeping of Condenser Package Unit and AHU rooms.

4.0 OCCUPATIONAL, SAFETY AND HEALTH

The Tenderer shall be deemed to have examined the documents referred to above and shall be bound by the terms and conditions therein. In the case where the tenderer is found non-compliance to the above regulations, and fails to price accordingly for the items required for the scope of project tendered, the Superintending Officer has the right to instruct the Contractor to provide such services without any cost involved. It is therefore deemed be inclusive in this tender.



5.0 CONTRACTOR'S MAINTENANCE RESPONSIBILITIES DURING MAINTENANCE PERIOD

Where specifically required or instructed by OIC/SO in the Contract document, the Contractor shall allow for and carry out services required in the contract document as listed and only be charge accordingly.

5.1 The Contractor shall be fully responsible for the following within the contract period as and when required:

- a. Inspection, checking, servicing, maintenance and repair including replacement of parts and components due to normal tears and wears.
- b. Emergency inspection, checking and servicing, repair and rectification work;
- c. Provide skilled and experienced Supervisor, qualified technician and tradesman to assistant the start-up, control, performance monitoring and shut-down of the plant;
- d. Test and commissioning of the new replacement installation after the completion of installation and services, maintenance and repair; 9 months comprehensive warranty of new spare parts and other accessories.
- e. Submission of services record and test report.
- f. To provide photograph / picture (before/after) for submission of payment.

5.2 The Contractor shall provide labour and consumable materials/items as specified in the following services during the contract Period:

- a. Consumable materials as listed (LOCI-1)
- b. Repairs including first line attendance, emergency and miscellaneous repairs, plants, tools, vehicles for transportation of material for purpose of execution of work;
- c. Preparation and submission of records/reports, compliance with miscellaneous requirements.
- d. Upon maintenance, repair and replacement period, the Contractor shall provide competent, experienced and qualified staff and workshop facilities to undertake the maintenance works or replacement works during the Maintenance Period. Detailed information of the organization, workshop facilities and list of contact persons of the Contractor's maintenance team shall be submitted to the Supervising Engineer or



Superintendent Officer fourteen (14) days after the commencement date of the maintenance period.

5.3 Contractor's responsibilities for breakdown call-out

The Contractor shall offer efficient and prompt response to breakdown call-out for the equipment failure. The expedition of response shall be in accordance with the following categories:

- a. **VERY URGENT** for failure of compressor, pipe burst, water dripping, fire alarm and electricity power failure, the Contractor shall respond and attend to the Very urgent calls immediately.
- b. **URGENT** for abnormality of equipment operation, the Contractor shall respond and attend to the Urgent calls within one hour from the receipt of the calls,
- c. **NON URGENT** for inadequate of room condition, the Contractor shall respond and attend the fault within 4 hours. Investigation report and proposal for repair/improvement/ modification shall be submitted.

The Contractor shall promptly complete any repair necessary for resuming the breakdown installation. In case immediate permanent repair is not possible due to safety related reason, the following "time for repair" targets counted from the receipt of breakdown or fault call shall be complied with:

- a. Complete temporary repair for resumption of the suspended or breakdown services to a safe operating condition within 24 hours; and
- b. Complete permanent rectification works within 3 and 7 working days unless long component and parts delivery time is required.

5.4 Maintenance program and schedule

The Contractor shall prepare, submit and seek endorsement on the maintenance program before the commencement of the Contract Maintenance Period. Upon the approval of the above maintenance program, the Contractor shall prepare a maintenance schedule for all the air-conditioning units/equipment and indicate dates for routine maintenance of the units/equipment before the commencement of the Contract Maintenance Period.

5.5 Co-ordination

The Contractor shall co-operate and co-ordinate with the Supervising Engineer or Superintendent Officer, Security agency in the building, utility supply companies, Government agencies and the public authorities for the smooth execution of maintenance works.



5.6 **Routine Servicing of Air Conditioning Type RAC / DX Package / Split unit / VRF / Air Curtain.**

- a. To check any excessive noise to loose parts, slacks bearing or anti-vibration mounts shall be investigate and corrected.
- b. Check air filter by washing and dry and clean evaporator coil with a VACUUM cleaner to avoid blowing dirt into the unit. Submit report to BB DP if filter is to be replaced.
- c. Check that all grilles and coils are free of leaves insect or other foreign matter and that fresh air can circulate freely over the condenser and evaporator coil.
- d. Check selector switch, thermostat and ventilation controls. On no account all controls shall be left set to the position as found before the checks are carried out.
- e. Check that condensate drain pipe run freely away to drain and check water tray is not leaking. Submit to BB DP if the condensate drain pipe and tray is leaking and rusty to be replaced.
- f. Check abnormalities, noisy and megger test all compressor and fan motors. Checked that all fastening are secure and properly tightened and locked.
- g. Check that starter trips under 'no volt' conditions. Check overload setting and submit report to BB DP when the starter is found faulty and need replacement.
- h. Check the Amps plug & socket for overheating due to the bad contactor or loose cable connection. Check the cable for damage to insulation any junction's blocks used to join the cable are tight and properly insulated.
- i. Check for discharge, suction pressure of the refrigerant circuit during operation, condition of the units, check voltage and phase imbalance, power supply, contactor, loose connections and thermostat operation.
- j. Check the amount refrigerant charge which should be within specifications and free of obstruction and restriction and check for leak in the system.
- k. Leak test all the service valves and refrigerant piping and make sure there is no leak in the system, if there is a leak the contractor shall make a report to BB DP.
- l. Check for any damage to suction and liquid line insulation and check liquid line filter for any sign of choked. The Contractor shall make full details of report to BB DP regarding this matter.



- m. To check that the air handling units and related controls (VSD) and control circuits are operating properly. Repair or replace if necessary.
- n. To check and record on log sheets and where appropriate on system performance sheet the air handling units operating conditions including motor current, chilled water inlet and outlet temperatures, return and mix air temperatures, off coil and supply air temperature and humidity.
- o. To check water drain pan, drain pipe and floor drain to ensure no clogging and flooding. Rectify if necessary.
- p. To clean and renew air filter as required.
- q. To check driving belts for proper tension and correct alignment, adjust and renew belts and lubricate bearings as required.
- r. To check the operation of control valves and isolating valves, rectify as required.
- s. To clean the fresh air inlet, exhaust air louvers, air dampers, accessible internal ductwork surfaces and fan blade.
- t. To check heaters for proper operation. Rectify if necessary.
- u. To check proper function of pressure gauge, thermometer, thermostat and motorized valve.

5.7 Routine Servicing of Dehumidifier / Air Curtain / Portable Unit

- a. Check air filter by washing and dry and clean cooling coil with a VACUUM cleaner to avoid blowing dirt into the unit. Submit report to BBDP if filter is to be replaced.
- b. Clean the external panel and body of the unit and check and clean drain/tray.
- c. The contractor shall provide report on visual condition of units (eg. Noisy, rusty etc)

5.8 General Servicing of Room Air Conditioning

- a. Annual maintenance for full service will be carried out for each Room Air-Conditioning units once a year consisting of monthly maintenance works and the following works.
- b. Remove the units form site and bring to the workshop for general cleaning. Both sides of condenser and evaporator coils to be lean with chemicals and lubricate for motors if required.



- c. Touch-up by first removing any loose rust or old paint and treating any bare metal surface with a zinc rich primer. All inside and outside surface of the casing should be sprayed with a suitable air drying paint in a suitable colour to match the original paint work.
- d. Check running operation, refrigerant charge by observation of performance thermostat operation. Charge up refrigerant if necessary.

5.9 General Servicing air conditioning Split unit and DX Package Type

- a. Annual maintenance (General servicing) for each set of split unit Air Conditioning Units which to be done once a year consisting of the monthly works and the following works.
- b. Remove the Fan Coil Units and Condensing Units cover and clean with approved type of chemical and check internal parts.
- c. Lubricated fan motors and all the moving parts if required.
- d. Touch-up by first removing any loose rust or old paint and treating any bare metal surface with a zinc rich primer. All inside and outside surface of the casing should be sprayed with a suitable air drying paint in a suitable colour to match the original paint work.
- e. Check running operation, refrigerant charge by observing the performance of thermostat operation. Charge up refrigerant gas if necessary. Leak test for the entire system, pump down the refrigerant before removing the condensing.
- f. The system should be vacuum (300micrins) using the counter flow vacuum to non-condensable (air) or moisture should be removed in order to avoid the formation of acid in the system.
- g. The contractor shall provide scaffolding for removing the condensing/fan coil units and submit comprehensive report of the Annual Maintenance for any defects.
- h. Checklist and picture (before and after) should be provided and sign/satisfy by client and supervising officer from BBDP for every each of RAC and DX split units.

6.0 CLEANING AND CLEARING UPON COMPLETION

- 6.1 The Tenderer shall maintain the site in a clean and tidy condition and remove all scrap caused by the carried out of works at frequent intervals. All equipment and materials are to be kept clean. Damaged or dirty materials will be removed from site and replaced at the Tenderer's expenses.



- 6.2 In the event of the contractor not clearing away the above mentioned materials, plant and other temporary works within stipulated time, the Government shall arrange for same to be executed by some other party and the cost of such clearing away shall be adjusted against the Contractor's Final Account. The Government will not be held responsible or liable for any material or plant left upon the site.
- 6.3 On completion of the works all plant, building appliances, apparatus or equipment are to be removed as quickly as possible and conveyed away from the site at the sole cost of the Contractor. All temporary service and leads, buildings, sheds barriers, scaffolding, etc. In connection with the construction works are to be disconnected, taken down and removed.

7.0 TESTING AND COMMISSIONING

- 7.1 All Air-Conditioning units, system, controls etc shall be fully tested by the contractor to satisfy himself that the units are capable of maintaining the specified requirements of operating correctly and safely. In addition, such test shall be carried out as required by the supervising engineer of BBDP to show that the contract has been completed satisfactorily on all respects.
- 7.2 The Contractor shall have in his possession all the necessary testing equipment to carry out the complete balancing testing and commissioning of the entire installation to the satisfaction of Supervising Engineers and relevant authorities including provide test report. All testing apparatus shall be calibrated. A complete testing and commissioning engineers for the following system including purging the system with Nitrogen Gas, Chilled water balancing, electricity etc. The complete system testing and commissioning still cover the entire of installation under the contract but not limited to the following.

8.0 WARRANTY, MAINTENANCE AND SERVICES

- 8.1 During the period between the date of Practical completion and the date of Final Handover (Defect Liability Period) the air conditioning contractor shall be responsible for the repair or replacement of all defective workmanship or materials during the period of the contract works, and which become apparent during the defect liability period. The Tenderer shall carry out all repairs or replacement without delay, however failure to complete such works by the end of the defects liability period shall not relieve the Tenderer of any obligation to complete. Where any defect renders an item of equipment unusable for excessive period of time, the defect liability period on that item or system may be extended by a period equal to the period that the equipment or system was useable.
- 8.2 During the defect liability Period, the air-conditioning contractor shall immediately attend to any report breakdown or stoppages of the above units and will carry out routine maintenance in accordance with the attached schedule including maintenance and breakdown or work done forwarded to BBDP within seven (7) day.
- 8.3 The Contractor are required to do maintenance and servicing works of new Air handling units including the control panel , all type of valve, gauge, actuator/motorized and other new associated equipment install and supply for this project for SIX (6) Months prior to the handover of the installation to the Government. The Service calls are to be endorsed



and signed by the clients each month and will be submitted to BBDP during handover period.

- 8.4 The Contractor are also required to submit Three (3) sets of Maintenance Manual Operation complete with catalog, Model, serial number, capacity and the location of the air-conditioner units for new split type air-conditioner units in the above building during the Practical Inspection for the above installation.

9.0 INSTALLATION OF SPLIT TYPE AIR-CONDITIONING UNITS WITH INVERTER TYPE OF COMPRESSOR. (CARRIER, TOSHIBA, MITSUBISHI, GENERAL, PANASONIC)

- 9.1 The installation of the above units are specified in the drawings shall be completed with supply and install all the necessary mounting bracket C-Channel required to support all the Fan Coil Units and the Condensing Units, refrigerant and condensate piping c/w insulation, cabling, isolator, PVC trunking for enclosed the above piping to support the above trunking, vacuuming and charging, fittings and accessories, opening or hacking in wall, ceiling or floor c/w make good.
- 9.2 All the refrigerant piping c/w minimum 20mm (3/4") insulation shall be enclosed in the PVC trunking. All exposed PVC trunking shall be painted to match the building colour. All the condensate drain pipes shall be provided with insulation if required and concealed on the wall or floor and run to the nearest drain, all the exposed drain pipes shall be enclosed in PVC trunking.
- 9.3 All the condensing units shall be mounted or painted (anti corrosive paint) wall bracket / U-Channel. For the Split Air-Conditioning 36,000Btu/Hr or 10.6 KW and above, the units shall be provided with filter drier and sight glass c/w moisture indicator on the liquid line.
- 9.4 Refrigerant gas shall be using **R410A or R32 or R407C** and piping shall be sized by the contractor in accordance with the air-conditioning units manufacturer recommendation to ensure scheduled capacities are met and the pipework layout shall be as per DES 'General Specification for Air-Conditioning Installation'. All exposed refrigerant pipes shall be wrapped with self-adhesive PVC denso outer wrap applied with continuous 20mm (3/4" wall x 7/8" ID) overlap.
- 9.5 All the electrical power and control cables run between the power supply, FCU's and Condensing units shall be concealed in PVC conduit separately from PVC trunking which is used to enclose the refrigerant and condensate piping. For units above 24,000 Btu/Hr or 7.1KW shall be 3 Phase Power supply.
- 9.6 *Concrete foundation or Plinth complete with BRC A65, C-Channel and pipe sleeve* must be used for the outdoor unit with height of 150mm and provide enough space to allow free air circulation to the condenser coils and required for maintenance as specified in the drawing.
- 9.7 All mounting brackets shall be rust-resistance painted with two coats of gloss paint to match building colour.
- 9.8 All the controller whether wired or wireless remote controller shall be built in with 24 hours ON/OFF Timer.



- 9.9 All the installation of the above Fan Coil units and Condensing units are specified shall have labeling or numbering for all air-conditioning equipment according to the drawing for maintenance and future reference. The labelling for outdoor units (CU) and DB shall be using 3M adhesive type bakelite with **white lettering on black background**. Labelling for shall be secured with brass screws or rivet. Labelling for FCU shall be 3M adhesive type Bakelite with (60mm x 25mm) **black lettering on white background**.

10.0 PIPEWORKS

10.1 Refrigerant Piping

- a. The Contractor shall supply, delivery and install the refrigerant piping c/w AEROFLEX closed-cell insulation, galvanized supports, tray or trunking where required; and all accessories in accordance with the specification.
- b. Where possible, all refrigerant pipework shall be embedded in the structure / brickworks. Exposed refrigerant pipe to be enclosed in UPVC trunking and painting to Architect's approval.
- c. Where enclosure by UPVC trunking is not possible, such as exposed pipework shall be wrapped with one layer of white PVC Denso tape with a 50% overlap.
- d. Exposed refrigerant piping rising vertically from the floor shall be protected by GI pipe sleeves protruding upwards at least 6".
- e. Piping sizes to the manufacturer's sizing recommendation. Refrigeration piping shall not be run longer than the manufacturer's recommendation length.

10.2 Condensate Piping

- a. UPVC condensate drain pipe to BS 3505 Class 'C' and 20mm thick Aeroflex insulation with denso tape outer wrap, fitting bracket, supports, hangers, elbow, tee, reducer, etc as specified.
- b. For wall mounted fan coil units, the condensate drain pipe drop to floor below ceiling space shall be concealed in brick wall c/w insulation and connect to main condensate drain pipe.



SCHEDULE OF FIXED RATES



ITEM	DESCRIPTION	PER/UNIT	RATE
	BILL NO. 1		
1.0	PRELIMINARIES		
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		
1.1.2	Public liability policy in the joint names of the government and the Contractor	LOT	\$ 500.00
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	PLANT, TOOLS AND VEHICLES		
1.2.1	Provide and maintain all necessary plant, equipment, tools and vehicles for the proper execution and completion of the works and clear away same on completion	LS	- -
1.3	OCCUPATIONAL SAFETY AND HEALTH		
1.3.1	The Contractor shall be ensured that all work are carried out to high standard of safety for his own workers on site also as per tender specification and as required by the HSE Section of PWD	LS	- -
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 its use shall be provided.	LS	- -
1.4	REMOVAL OF RUBBISH		
1.4.1	Keep the site tidy and free from rubbish, debris and the like. The Contractor shall ensure that good housekeeping is maintained continuously throughout the duration of the works with due regard being paid to tidiness, accessway and disposal of scrap materials and rubbish.	LS	- -



ITEM	DESCRIPTION	PER/UNIT	RATE
1.5	CLEARING UPON COMPLETION		
1.5.1	On completion of the works all plant, building appliances, apparatus or equipment are to be removed as quickly as possible and conveyed away from the site at the sole cost of the contractor. All temporary service and leads, building, sheds, barriers, scaffolding etc in connection with the construction works are to be.	LS	- -
1.5.2	In the event of the contractor not clearing away the above mentioned materials, plants and other temporary works within stipulated time, the government shall arrange for same to be executed by some other party and cost of such clearing away shall be adjusted against the contractor's final account. the government will not be held responsible or liable for.	LS	- -
1.6	PROGRAMME CHARTS		
1.6.1	within seven (7) days after the date of possession, the contractor shall submit a detailed programme to complete the various operations and section of work including nominated sub contracts (if any) to comply with the contract period. He shall submit four (4) copies of this programme to the superintending officer.	LS	- -
1.6.2	The Programme charts shall be in the form of detailed bar chart, accompanied by a critical path network analysis showing each main construction sequence if required.	LS	- -
1.6.3	Up-to-date records of progress shall be kept by the contractor and a comparison between actual and planned progress submitted to the superintending officer at weekly / monthly intervals or as instructed by OIC.	LS	- -
1.6.4	Submit a weely/monthly progress report on the superitending officer form of all matters affecting the contract, including record of inclement weather, strikes, breakdown of machinery and shortage or late delivery of materials.	LS	- -



B1-3/3
PRELIMINARIES

ITEM	DESCRIPTION	PER/UNIT	RATE
1.6.5	Submit progress (S-Curve) payment weekly / monthly including supported documents (Data, pictures, client endorsement, etc)	LS	- -
1.7	PROTECTING THE WORKS		
1.7.1	Take all necessary protective measures as directed throughout the currency of contract to protect all finished work from damage or deterioration caused by activities of any workmen (including those of the government's direct specialist contractors) or of any other cause and leave the whole of the works perfect and to superintending office's satisfaction	LS	- -
1.7.2	Take all adequate and reasonable measures to protect any private properties. Make good all damages due to any cause within the contractor's control at his own expense or pay all costs and charges in connection of contract.		
1.8	COOPERATION AND CO-ORDINATION		
1.8.1	Co-operate with all other persons who are on the site with the authority of the superintending officer. Co-ordinate the works such that they maybe completed in the most efficient and acceptable manner.	LS	- -
1.8.2	The contractor shall permit other contractor and the superintending officer to use any part of the works.	LS	- -
	TOTAL FIX LUMP SUM FOR BILL NO.1 PRELIMINARIES (DISCOUNT APPLY TO THIS BILL)	LS	\$ 3,000



B2-1/1

INTERIM BREAKDOWN ATTENDANCE

ITEM	DESCRIPTION	PER/UNIT	RATE
	BILL NO. 2		
	INTERIM MAINTENANCE AND BREAKDOWN ATTENDANCE		
2.0	Being labour charges including any necessary equipments and tools required for breakdown attendance for air-conditioning (Split Unit / Room Unit/DX Package Type / Precision Closed Control Unit / Air Curtain / Exhaust fan) and associated equipment including switchboard including the following:	NO	\$ 30.00
2.1.1	To attend breakdown calls/complaints/instructions from OIC without delay (within 24 hours of working days) upon received of instruction/complaint		
2.1.2	To troubleshoot faulty air-conditioning (Split Unit/Room Unit/ DX Package Type/Precision Closed Control Unit/Air Curtain/VRF/Exhaust fan sytem) as instructed by OIC/SO		
2.1.3	To provide comprehensive/status/service report of breakdown calls/complaints including justification of fault such as (data, photos etc) and recommended repair action(s)		
2.2	Being labour charges including any necessary equipments and tools required for breakdown attendance for air-conditioning (Split Unit / Room Unit/DX Package Type / Precision Closed Control Unit / Air Curtain / Exhaust fan) and associated equipment including switchboard including the following:	NO	\$ 80.00
2.2.1	To attend breakdown calls/complaints/instructions from OIC without delay (within 24 hours of working days) upon received of instruction/complaint		
2.2.2	To troubleshoot faulty air-conditioning (Split Unit/Room Unit/ DX Package Type/Precision Closed Control Unit/Air Curtain/VRF/Exhaust fan sytem) as instructed by OIC/SO		
2.2.3	To provide comprehensive/status/service report of breakdown calls/complaints including justification of fault such as (data, photos etc) and recommended repair action(s)		
2.2.4	To perform repair of leak/charging of refrigerant gas/replacement of consumable parts (as listed in consumable items) including labour for replacement of defective part(s) (Bill No.3) to run the unit back to normal working order.		



SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)

ITEM	DESCRIPTION	QTY	RATE
	BILL NO. 3		
	SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)		
	Note:		
3.0	1) the above scope is to supply defective part(s), testing and commissioning, including six (6) months of comprehensive		
	2) All make type/rating/size referred below shall be approved original manufacturer and genuine parts only.		
3.1	<u>Fully hermetic compressor non-inverter for split unit/RAC/DX Package type (R22) of any make c/w service valve 'motor protector' crankcase heater including vacuuming, testing and commissioning according to the following capacity:</u>		
3.1.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 300.00
3.1.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 320.00
3.1.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 500.00
3.1.4	36,001 Btu/hr to 48,000 Btu/hr	NO	\$ 700.00
3.1.5	48,001 Btu/hr to 60,000 Btu/hr	NO	\$ 1,000.00
3.1.6	60,001 Btu/hr to 80,000 Btu/hr	NO	\$ 1,600.00
3.1.7	80,001 Btu/hr and above	NO	\$ 2,600.00
3.2	<u>Fully hermetic compressor for Inverter split unit (R410a/R407c) of any make c/w service valve 'motor protector' crankcase heater including vacuuming, testing and commissioning according to the following capacity:</u>		
3.2.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 650.00
3.2.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 950.00
3.2.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 1,200.00
3.2.4	36,001 Btu/hr to 48,000 Btu/hr	NO	\$ 1,800.00
3.2.5	48,001 Btu/hr to 60,000 Btu/hr	NO	\$ 2,300.00
3.3	<u>Fully hermetic compressor for VRF (R20/R410a/R407c) of any make c/w service valve 'motor protector' crankcase heater including vacuuming, testing and commissioning according to the following capacity:</u>		
3.3.1	6HP	NO	\$ 1,100.00
3.3.2	8HP	NO	\$ 1,600.00
3.3.3	10HP and above	NO	\$ 2,100.00
3.4	<u>Fully hermetic compressor inverter for VRF (R20/R410a/R407c) of any make c/w service valve 'motor protector' crankcase heater including vacuuming, testing and commissioning according to the following capacity:</u>		
3.4.1	6HP	NO	\$ 1,300.00
3.4.2	8HP	NO	\$ 1,800.00
3.4.3	10HP and above	NO	\$ 2,800.00
3.5	Thermostat Including Sensor (any type/size/brand)	NO	\$ 50.00



SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)

ITEM	DESCRIPTION	QTY	RATE
3.6	Low pressure switch (any type/size)	NO	\$ 100.00
3.7	High pressure switch (any type/size)	NO	\$ 100.00
3.8	Control/Overload relay (any type/size)	NO	\$ 30.00
3.9	Time delay relay	NO	\$ 60.00
3.10	Blower Scroll for RAC unit	NO	\$ 100.00
3.11	Fan coil motor (blower) (any type/size)	NO	\$ 80.00
3.12	Swing control motor split / RAC / FCUs' (any type/size)	NO	\$ 40.00
3.13	Blower wheel of fan coil unit (any type/size)	NO	\$ 120.00
3.14	Refrigerant pipe complete with insulation using Armaflex insulation, trunking and adhesive denso tape (any size)	NO	\$ 10.00
3.15	<u>Drain / condensate pipe (any size) with all necessary fittings including the following:</u>		
3.15.1	Aeroflex insulation	Meter	\$ 7.00
3.15.2	Hacking and concealed on concrete floor with mosaic tiles as approved by OIC	Meter	\$ 15.00
3.15.3	Exposed drain pipe	Meter	\$ 5.00
3.16	DOL starter for Room air-conditioning unit (220/) coil single phase with c/w overload	NO	\$ 60.00
3.17	<u>Printed Circuit Board (PCB) for Inverter type (any type/size/brand):</u>		
3.17.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 160.00
3.17.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 180.00
3.17.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 200.00
3.17.4	36,001 Btu/hr to 60,000 Btu/hr	NO	\$ 220.00
3.17.5	60,001 Btu/hr and above	NO	\$ 280.00
3.18	<u>Printed Circuit Board (PCB) for Non Inverter type (any type/size/brand):</u>		
3.18.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 100.00
3.18.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 120.00
3.18.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 140.00
3.18.4	36,001 Btu/hr to 60,000 Btu/hr	NO	\$ 160.00
3.18.5	60,001 Btu/hr and above	NO	\$ 250.00
3.19	Air/Pipe Thermister Sensor (any type/size/Brand)	NO	\$ 60.00
3.20	Filter Drier (any type /size)	NO	\$ 50.00



B3-3/7

SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)

ITEM	DESCRIPTION	QTY	RATE
3.21	Contactora (any type/size)	NO	\$ 60.00
3.22	DP Switch	NO	\$ 20.00
3.23	Plug Top (any type/size)	NO	\$ 8.00
3.24	Cassette type drain pump (any type/size)	NO	\$ 180.00
3.25	Socket for plug top (any type/size)	NO	\$ 20.00
3.26	Step down transformer (any type/brand)	NO	\$ 80.00
3.27	Remote control (any type/brand)	NO	\$ 80.00
3.28	<u>Refrigerant Gas as the following (RAC/Split unit) including leak repair and charging:</u>		
3.28.1	R22	KG	\$ 10.00
3.28.2	R407C	KG	\$ 15.00
3.28.3	R410A	KG	\$ 20.00
3.28.4	R32	KG	\$ 25.00
3.29	Flexible hose / conduit up to 25mm dia	Meter	\$ 2.00
3.30	Remote to wire type including necessary parts	Meter	\$ 5.00
3.31	<u>Fan Blade for condensing unit (Any type / make)</u>		
3.31.1	9,000 Btu/hr to 12,000 Btu/hr	No	\$ 80.00
3.31.2	18,000 Btu/hr to 24,000 Btu/hr	No	\$ 90.00
3.31.3	30,000 Btu/hr to 36,000 Btu/hr	No	\$ 100.00
3.31.4	36,001 Btu/hr to 60,000 Btu/hr	No	\$ 130.00
3.31.5	60,001 Btu/hr and above	No	\$ 150.00
3.32	<u>New Condenser fan motor for Split unit. (Any type / Make)</u>		
3.32.1	9,000 Btu/hr to 12,000 Btu/hr	No	\$ 150.00
3.32.2	18,000 Btu/hr to 24,000 Btu/hr	No	\$ 180.00
3.32.3	30,000 Btu/hr to 36,000 Btu/hr	No	\$ 200.00
3.32.4	36,001 Btu/hr to 60,000 Btu/hr	No	\$ 220.00
3.32.5	60,001 Btu/hr and above	No	\$ 240.00
3.33	<u>New Fan motor RAC. Any make / type</u>		
3.33.1	7,000 - 14,000 Btu/hr	No	\$ 150.00
3.33.2	14,001 - 16,000 Btu/hr	No	\$ 200.00
3.33.3	16,001 - 24,000 Btu/hr	No	\$ 250.00



SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)

ITEM	DESCRIPTION	QTY	RATE
3.34	<u>New FCU fan motor for Split Unit. (Any Make / type / size)</u>		
3.34.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 150.00
3.34.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 180.00
3.34.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 200.00
3.34.4	36,001 Btu/hr to 60,000 Btu/hr	NO	\$ 220.00
3.34.5	60,001 Btu/hr and above	NO	\$ 240.00
3.35	<u>FCU Fan scroll for Split Unit. (Any Make / type / size)</u>		
3.35.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 80.00
3.35.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 90.00
3.35.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 100.00
3.35.4	36,001 Btu/hr to 60,000 Btu/hr	NO	\$ 110.00
3.35.5	60,001 Btu/hr and above	NO	\$ 120.00
3.36	<u>To rewind Condensing Unit Fan motor for split unit (any type / size / make/ capacity) c/w bearings</u>		
3.36.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 50.00
3.36.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 50.00
3.36.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 50.00
3.36.4	36,001 Btu/hr to 60,000 Btu/hr	NO	\$ 50.00
3.36.5	60,001 Btu/hr and above	NO	\$ 50.00
3.37	<u>To rewind Fan Motor for RAC (any make / size / make / capacity) c/w bearings</u>		
3.37.1	7,000 - 14,000 Btu/hr	NO	\$ 30.00
3.37.2	14,001 - 16,000 Btu/hr	NO	\$ 30.00
3.37.3	16,001 - 24,000 Btu/hr	NO	\$ 30.00
3.38	To fabricate, supply & install Drip tray	NO	\$ 50.00
3.39	15 Amps Switched socket outlet	NO	\$ 20.00
3.40	Compressor terminal clip with wireless assembly	NO	\$ 3.00
3.40.1	<u>MCCB as the following:</u>		
3.40.2	40 to 80 SP/TP	NO	\$ 100.00
3.40.3	80 to 150 SP/TP	NO	\$ 200.00
3.41	<u>ELCB as the following :</u>		
3.41.1	40 to 80 SP/TP	NO	\$ 200.00
3.41.2	50 to 150 SP/TP	NO	\$ 300.00
3.42	<u>weatherproof isolator switch as the following:</u>		
3.42.1	20Amps DP/TP	NO	\$ 40.00
3.42.2	32 Amps DP/TP	NO	\$ 60.00



SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)

ITEM	DESCRIPTION	QTY	RATE
3.43	<u>MCB as the following:</u>		
3.43.1	16 Amps SP/TP	NO	\$ 80.00
3.43.2	32-40Amps SP/TP	NO	\$ 100.00
3.44	Relocate / reinstall existing Airconditioning Unit any type/size from one location to other location (any district) c/w all necessary materials / transportation / shipment / tools required in order to run back to normal working order as instructed by OIC/SO	NO	\$ 150.00
3.45	<u>Blanking off an opening (complete with painting as approved by OIC) using:</u>		
3.45.1	Plywood / cement board	Lot	\$ 10.00
3.45.2	Plastering: brick : cement	Lot	\$ 60.00
3.46	<u>To supply and terminate the following:</u>		
3.46.1	3C x 4mm2 in PVC surface casing / trunking / conduit for the nearest sub DB to unit isolator	Meter	\$ 10.00
3.46.2	5C x 4mm2 in PVC surface casing / trunking / conduit for the nearest sub DB to unit isolator	Meter	\$ 20.00
3.47	PVC Trunking. Any Size	Meter	\$ 4.00
3.48	Metal Trunking. Any Size	Meter	\$ 6.00
3.49	Bearing for Fan Coil Motor. Any Size	NO	\$ 7.00
3.50	Bearing for Condenser Motor. Any Size	NO	\$ 18.00
3.51	Repair works and re-insulation of Ducting with 2" / 2lbs Fibre glass / PE & Aluminium Foil	Meter sq.	\$ 40.00
3.52	Room thermostat - The Controller shall be electronically lockable and set point to be	NO	\$ 150.00
3.53	Thermistor sensors (Any type / Any size)	NO	\$ 350.00
3.54	Compressor Motor Protection relay (Any type / make / size)	NO	\$ 450.00
3.55	Refrigerant High Pressure Switch. (Any type or make)	NO	\$ 350.00
3.56	Refrigerant Low Pressure Switch. (Any type or make)	NO	\$ 350.00
3.57	Refrigerant Oil Pressure Switch. (Any type or make)	NO	\$ 250.00
3.58	<u>Electronic Expansion Valve:</u>		
3.58.1	up to 100TR	NO	\$ 1,000.00
3.58.2	101 to 150TR	NO	\$ 1,200.00



SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)

ITEM	DESCRIPTION	QTY	RATE
3.59	<u>New Condenser Fan Motor for Package unit:</u>		
3.59.1	1-2 HP	NO	\$ 1,500.00
3.59.2	3-4 HP	NO	\$ 1,800.00
3.59.3	5-6 HP	NO	\$ 2,000.00
3.60	Pressure Transducer. (Any type or make)	NO	\$ 550.00
3.61	Transducer Sensor. (Any Type or make)	NO	\$ 550.00
3.62	Solenoid Valve Coil. (Any type, size and make)	NO	\$ 250.00
3.63	Liquid line solenoid valve c/w solenoid coil (24/110/240V/50Hz) size up to 1"	NO	\$ 450.00
3.64	Bearings including resurfacing of shaft. Any type / size (Electric Motor / AHU blower / CT fan)	NO	\$ 350.00
3.65	V-Belts. (Any size / any type)	NO	\$ 80.00
3.66	7 day (24hrs Programmable timer switch (electronic digital type) any type, brand or size	NO	\$ 200.00
3.67	<u>Fuse (any type) as the following capacity:</u>		
3.67.1	Up to 50Amps	NO	\$ 20.00
3.67.2	Up to 100Amps	NO	\$ 30.00
3.68	Microprocessor Display Board for Package Unit c/w reprogramming (any brand / type)	NO	\$ 3,500.00
3.69	AHU blower Bearing (pillow, block, flange or any type other type / size)	NO	\$ 80.00
3.70	VRF Unit, Thermistor Sensors used in Indoor or Outdoor Unit (Any type / make)	NO	\$ 350.00
3.71	VRF Unit, Indoor Printed Circuit Board. (Any brand / type)	NO	\$ 450.00
3.72	VRF Unit, Compressor / Fan Motor IPDU (Any brand / type / capacity)	NO	\$ 650.00
3.73	VRF Unit, Outdoor Printed Circuit Board (Any Brand / type)	NO	\$ 3,200.00
3.74	Compressor Oil (York, Suniso/Carrier/Trane) suitable for refrigerant systems	NO	\$ 35.00
3.75	<u>Refrigerant gas as the following: c/w leak test and charging on site for Package Unit and VRE</u>		
3.75.1	Refrigerant R410A/Kg	NO	\$ 30.00
3.75.2	Refrigerant R404/Kg	NO	\$ 30.00
3.75.3	Refrigerant R407C/Kg	NO	\$ 30.00
3.75.4	Refrigerant R134a/Kg	NO	\$ 25.00
3.75.5	Dry Nitrogen	Mtr.Cu	\$ 120.00



SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)

ITEM	DESCRIPTION	QTY	RATE
3.76	<u>Moisture & Liquid Indicator (Sight Glass) as the following:</u>		
3.76.1	3/8 " - 1/2 "	NO	\$ 80.00
3.76.2	5/8 " - 1 1/8 "	NO	\$ 110.00
3.77	Replaceable Air Pre-Filters media washable type, Carbon filter for AHU	Mtr.Sq	\$ 120.00
3.78	<u>Pre-insulated flexible duct</u>		
3.78.1	200 mm2	meter	\$ 25.00
3.78.2	300 mm2	meter	\$ 30.00
3.78.3	500 mm2	meter	\$ 35.00
3.79	Smoke Detector (dual Sensor) c/w control wiring	NO	\$ 120.00



AIR CONDITIONING MAINTENANCE WORKS FOR RAC/DX PACKAGE TYPE /SPLIT UNIT /VRF/PAC/AIR CURTAIN/ EXHAUST FAN

ITEM	DESCRIPTION	QTY	RATE
4.0	BILL NO.4 ROUTINE AND GENERAL SERVICING OF AIR CONDITIONING TYPE RAC/DX PACKAGE TYPE / SPLIT UNIT / VRF / AIR CURTAIN		
4.1	ROUTINE SERVICING ' for the following unit:		
4.1.1	RAC Type		
4.1.1.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 10.00
4.1.1.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 15.00
4.1.2	Wall mounted Split / DX Package Type		
4.1.2.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 10.00
4.1.2.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 15.00
4.1.2.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 20.00
4.1.2.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 25.00
4.1.3	Under Ceiling Split / Dx Package Type		
4.1.3.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 10.00
4.1.3.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 15.00
4.1.3.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 20.00
4.1.3.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 25.00
4.1.3.5	60,001 Btu/hr and above	SET	\$ 30.00
4.1.4	Casette Split / Dx Package Type		
4.1.4.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 15.00
4.1.4.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 20.00
4.1.4.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 25.00
4.1.4.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 25.00
4.1.4.5	60,001 Btu/hr and above	SET	\$ 30.00
4.1.5	Floor Standing Split / Dx Package Type		
4.1.5.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 10.00
4.1.5.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 15.00
4.1.5.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 20.00
4.1.5.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 25.00
4.1.5.5	60,001 Btu/hr and above	SET	\$ 30.00
4.1.6	Close Control Unit		
4.1.6.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 30.00
4.1.6.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 40.00
4.1.6.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 60.00
4.1.6.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 80.00



AIR CONDITIONING MAINTENANCE WORKS FOR RAC/DX PACKAGE TYPE /SPLIT UNIT /VRF/PAC/AIR CURTAIN/ EXHAUST FAN

ITEM	DESCRIPTION	QTY	RATE
4.1.7	<u>Variable Refrigerant Flow Condensing unit (VRF)</u>		
4.1.7.1	10 - 15 TR	NO	\$ 30.00
4.1.7.2	16 - 20 TR	NO	\$ 40.00
4.1.7.3	21 - 25 TR	NO	\$ 60.00
4.1.7.4	26 - 30 TR	NO	\$ 80.00
4.1.7.5	31 - 40 TR	NO	\$ 100.00
4.1.7.6	41 TR and above	NO	\$ 120.00
4.1.8	<u>Variable Refrigerant Flow Fan Coil unit of any type (VRF) as the following:</u>		
4.1.8.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 15.00
4.1.8.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 18.00
4.1.8.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 20.00
4.1.8.4	36,001 Btu/hr to 60,000 Btu/hr	NO	\$ 25.00
4.1.8.5	60,001 Btu/hr and above	NO	\$ 30.00
4.1.9	<u>'Air Cooled' Package Type (Condenser Unit) of any type of compressor with the following capacity:</u>		
4.1.9.1	10 - 50 TR	NO	\$ 100.00
4.1.9.2	51 - 100 TR	NO	\$ 120.00
4.1.10	<u>Air Curtain</u>	NO	\$ 5.00
4.1.10.1	3 - 6ft		
4.1.11	<u>Exhaust Fan of Any Type</u>		
4.1.11.1	6"	NO	\$ 5.00
4.1.11.2	9"	NO	\$ 5.00
4.1.11.3	12"	NO	\$ 5.00
4.1.11.4	15"	NO	\$ 5.00
4.1.12	<u>'Air Handling Unit' of any type with the following capacity:</u>		
4.1.12.1	15 - 50 TR	NO	\$ 40.00
4.1.12.2	50.1 -above	NO	\$ 60.00
4.2	<u>'GENERAL SERVICING' for the following unit:</u>		
4.2.1	<u>RAC type</u>		
4.2.1.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 50.00
4.2.1.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 60.00
4.2.2	<u>Wall Mounted Split / DX Package Type</u>		
4.2.2.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 100.00
4.2.2.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 120.00
4.2.2.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 140.00
4.2.2.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 160.00



ITEM	DESCRIPTION	QTY	RATE
4.2.3	<u>Under Ceiling Split / DX Package Type</u>		
4.2.3.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 100.00
4.2.3.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 120.00
4.2.3.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 140.00
4.2.3.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 160.00
4.2.3.5	60,001 Btu/hr and above	SET	\$ 180.00
4.2.4	<u>Casette Split / DX Package Type</u>		
4.2.4.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 60.00
4.2.4.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 80.00
4.2.4.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 100.00
4.2.4.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 120.00
4.2.4.5	60,001 Btu/hr and above	SET	\$ 140.00
4.2.5	<u>Floor standing Split / DX Package Type</u>		
4.2.5.1	9,000 Btu/hr to 12,000 Btu/hr	SET	\$ 60.00
4.2.5.2	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 80.00
4.2.5.3	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 100.00
4.2.5.4	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 120.00
4.2.5.5	60,001 Btu/hr and above	SET	\$ 140.00
4.2.6	<u>Close Control Unit</u>		
4.2.6.1	18,000 Btu/hr to 24,000 Btu/hr	SET	\$ 60.00
4.2.6.2	30,000 Btu/hr to 36,000 Btu/hr	SET	\$ 80.00
4.2.6.3	36,001 Btu/hr to 60,000 Btu/hr	SET	\$ 100.00
4.2.6.4	60,001 Btu/hr and above	SET	\$ 120.00
4.2.7	<u>Variable Refrigerant Flow Condensing unit (VRF)</u>		
4.2.7.1	10 - 15 TR	NO	\$ 120.00
4.2.7.2	16 - 20 TR	NO	\$ 130.00
4.2.7.3	21 - 25 TR	NO	\$ 140.00
4.2.7.4	26 - 30 TR	NO	\$ 150.00
4.2.7.5	31 - 40 TR	NO	\$ 160.00
4.2.7.6	41 TR and above	NO	\$ 170.00
4.2.8	<u>Variable Refrigerant Flow Fan Coil unit of any type (VRF) as the following:</u>		
4.2.8.1	9,000 Btu/hr to 12,000 Btu/hr	NO	\$ 25.00
4.2.8.2	18,000 Btu/hr to 24,000 Btu/hr	NO	\$ 30.00
4.2.8.3	30,000 Btu/hr to 36,000 Btu/hr	NO	\$ 35.00
4.2.8.4	36,001 Btu/hr to 60,000 Btu/hr	NO	\$ 40.00
4.2.8.5	60,001 Btu/hr and above	NO	\$ 45.00



AIR CONDITIONING MAINTENANCE WORKS FOR RAC/DX PACKAGE TYPE /SPLIT UNIT /VRF/PAC/AIR CURTAIN/ EXHAUST FAN

ITEM	DESCRIPTION	QTY	RATE
4.2.9	<u>'Air Cooled' Packaged Type (Condenser Unit) of any type of compressor with the following capacity:</u>		
4.2.9.1	10 - 50 TR	NO	\$ 160.00
4.2.9.2	51 - 100 TR	NO	\$ 170.00
4.2.10	<u>'Air Handling Unit' of any type of compressor with the following capacity: c/w chemical cleaning</u>		
4.2.10.1	15 - 50 TR	NO	\$ 50.00
4.2.10.2	50.1 - above	NO	\$ 100.00



ITEM	DESCRIPTION	QTY	RATE
	<u>Bill No.5</u>		
5.0	<u>REPLACEMENT OF SPLIT UNIT/AIR CURTAIN/EXHAUST FAN / FLOOR STANDING</u> Replacement of air conditioning unit shall include as the following:		
5.0.1	<u>Testing and commisioning</u> To vacuuming, charging, testing, pressure testing and commissioning of replaced air conditioning unit		
5.0.2	<u>Warantty</u> Provide warranty for six (6) Months period accordance with specification of replaced air conditioning unit		
5.0.3	<u>Labelling</u> To labelling all New Conditioner units using Bakelite		
5.1	<u>DISMANTLING THE EXISTING SPLIT TYPE AND ROOM AIR-CONDITIONING TYPE</u> To dismantle the existing split type air conditioner units and delivery to location stated by SO/OIC c/w dismantle all the water tray, condensate piping, power & control cable/trunking, brackets, fitting accessories, technical report (serial & model) pictures, transportation/shipmet from Temburong to Bandar Seri Begawan and painting & make good in accordance with specification.		
5.1.1	RAC	LOT	\$ 50.00
5.1.2	High Wall Mounted Type	LOT	\$ 60.00
5.1.3	Ceiling Suspended / Floor Standing Type	LOT	\$ 80.00
5.1.4	Cassette Type	LOT	\$ 100.00
5.1.5	Air Curtain	LOT	\$ 15.00
5.1.6	Exhaust fan	LOT	\$ 10.00
5.2	<u>SUPPLY & INSTALLATION OF NEW SPLIT AIR CONDITIONER UNITS WITH INVERTER TYPE OF COMPRESSOR</u> To Supply and install of New Split Type Airconditioning Units (FCU's and CU's) c/w refrigerant gas, all necessary fittings and accessories shall not less than the capacity as indicated below.		
5.2.1	<u>High Wall Mounted Type</u>		
5.2.1.1	2.64 kW / 10,000 Btu/hr	Set	\$ 700.00
5.2.1.2	4.11 kW / 13,000 Btu/hr	Set	\$ 900.00
5.2.1.3	5.3 kW / 20,000 Btu/hr	Set	\$ 1,200.00
5.2.1.4	7.1kW / 24,000 Btu/hr	Set	\$ 1,500.00
5.2.1.5	8.8kW / 30,000 Btu/hr	Set	\$ 1,800.00
5.2.2	<u>Ceiling Suspended Type</u>		
5.2.2.1	8.79kW / 30,000 Btu/hr	Set	\$ 2,000.00
5.2.2.2	10.55kW / 36,000 Btu/hr	Set	\$ 2,500.00
5.2.2.3	14.08 kW / 48,000 Btu/hr	Set	\$ 3,000.00



ITEM	DESCRIPTION	QTY	RATE
5.2.3	<u>Cassette Type</u>		
5.2.3.1	8.8kW / 30,000 Btu/hr	SET	\$ 2,500.00
5.2.3.2	10.06 kW / 36,000 Btu/hr	SET	\$ 3,000.00
5.2.3.3	14.08 kW / 48,000 Btu/hr	SET	\$ 3,500.00
5.3	<u>SUPPLY AND INSTALLATION OF NEW FLOOR STANDING (NON-INVERTER TYPE COMPRESSOR)</u> To supply and install new Floor Standing Type Airconditioning Units (FCU's and Cu's) c/w refrigerant gas, all necessary fittings and accessories shall not less than the capacity as indicated below:		
5.3.1	30,000 Btu/hr	Set	\$ 1,300.00
5.3.2	36,000 Btu/hr	Set	\$ 1,850.00
5.3.3	48,000 Btu/hr	Set	\$ 2,050.00
5.4	<u>REFRIGERANT AND CONDENSATE PIPEWORKS FOR NEW AND EXISTING UNIT</u> Supply & install Refrigerant piping c/w insulation, cable tray, fitting, adhesive denso tape & accessories, hacking, coring or boring on the wall/ceiling, opening & make good as specified. The rate shall inclusive of any length / amount required from CU to FCU		
5.4.1.1	High wall mounted Type	LOT	\$ 60.00
5.4.1.2	Ceiling Suspended Type / Floor Standing Type	LOT	\$ 80.00
5.4.1.3	Cassette Type	LOT	\$ 100.00
5.4.2	<u>To replace with PVC Condensate drain pipe confirming to BS 3503 Class C c/w bends, elbows, tees, insulation, cable tray, brackets, PVC trunking to conceal the above pipe, opening and make good as specified. The rate shall include of any length / amount required.</u>		
5.4.2.1	High wall mounted type	LOT	\$ 50.00
5.4.2.2	Ceiling Suspended type / Floor Standing Type	LOT	\$ 70.00
5.4.2.3	Cassette Type	LOT	\$ 100.00
5.5	<u>ELECTRICAL WORKS</u> To replace with new power & control cables between the condensing units and fan coil units to the power points c/w conduit, brackets, fitting and accessories in accordance with specification. This rate shall include of any length / amount required.		
5.5.1	High wall Mounted Type	LOT	\$ 60.00
5.5.2	Ceiling Suspended Type / Floor Standing Type	LOT	\$ 60.00
5.5.3	Cassette Type	LOT	\$ 80.00



ITEM	DESCRIPTION	QTY	RATE
5.6	SUPPLY OF AIR CURTAIN To supply and install new Air Curtain (any brand, type) including bracket etc.		
5.6.1	Size : 3' x 8 -10' air throw	NO	\$ 250.00
5.6.2	Size: 4' x 8 -10' air throw	NO	\$ 350.00
5.7	SUPPLY OF EXHAUST FAN To supply & install Exhaust Fan c/w making opening either through glass or concrete, mounting plate, mounting plate, bracket as required c/w wiring to power point		
5.7.1	6"	NO	\$ 50.00
5.7.2	8"	NO	\$ 60.00
5.7.3	10"	NO	\$ 70.00
5.7.4	12"	NO	\$ 80.00
5.7.5	15"	NO	\$ 90.00
5.7.6	18"	NO	\$ 100.00
5.7.7	24"	NO	\$ 110.00



**TERM CONTRACT FOR BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR
CONDITIONING EQUIPMENT SYSTEM TO OFFICES UNDER JABATAN HAL EHWAL MASJID IN FOUR (4)
DISTRICTS FOR A PERIOD OF TWENTY-FOUR (24) MONTHS**

Only to be participated by contractors who are registered with the Ministry of Development in Category M01.

Tenderers are advised to read the note / specification / scope of works in detail before submitting their prices and shall include all incidental work pertaining thereto even though not specifically mentioned herein or shown or describe in the description and which deem necessary for the works to be carried out.

The quoted price shall include all custom duties, sale tax and other taxes, insurance, transportation and services to complete the works.

We _____ the undersigned Tender / Quote for the above work as follows:

I agree to execute any and all the work up to the maximum value of **BS25,000.00 (Brunei Dollars: Twenty-five Thousand Only)** under the terms of contract at:

+ (PLUS) (_____ %) _____ Percentum

- (MINUS) (_____ %) _____ Percentum

FOR A COMPLETION PERIOD OF 24 MONTHS

Signature of Tenderer & Official Company

Name : _____

Position in Company : _____

Company Name: _____

Address: _____

Contact No : _____

Date: _____

Signature of Witness

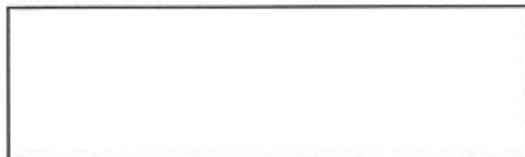
Name : _____

Position in Company : _____

Date: _____

Contact No : _____

Company Stamp:



LIST OF CONSUMABLE ITEMS



LIST OF CONSUMABLE ITEMS

Consumable item to be paid for within the contract conditions including labour charges, supervision, testing, transport and commissioning.

1. Oil, grease and other lubricants.
2. Indicator bulbs of all type for switchboards.
3. Any materials and tools used in the routine maintenance of the plant.
4. Coupling rubber inserts any size / any make or type.
5. Fan motor capacitor (start or run). Any size, make or type.
6. Compressor / Fan Motor Capacitor (start or run). Any Size, make or type.
7. Compressor mountings. Any Size, make or type.
8. Chemical Cleaning fluid. Any amount or make.
9. Chemical Cleaning block. Any amount or make.
10. Miscellaneous parts that match split type air-conditioning under repair:-
 - a. Battery Alkaline 1.5AAA size. Any type or make.
 - b. Battery Alkaline 1.5 AA size. Any type or make.
 - c. Condensing Unit Steel mounting bracket "L" shape of approved type.

NOTE : If the units under repair are considered beyond economical repair, the OIC must be notified immediately so that inspection can be carried out to verify the report. If in the opinion of OIC that the unit can still be repaired, the contractor has to repair it accordingly to working order. Those units which had been considered repair will be omitted temporarily from the maintenance lists until new replacement is available.



Company Profile:

Company Name : _____

Address : _____

Company Stamp:



Signature of Tenderer:

Name : _____

Position in company : _____

Date : _____

Signature Of Witness:

Name : _____

Position in company : _____

Date : _____



APPENDIX



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

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

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.

