

BAHAGIAN BANGUNAN DAN PEMELIHARAAN  
KEMENTERIAN HAL EHWAL UGAMA  
NEGARA BRUNEI DARUSSALAM

TAWARAN SEBUT HARGA

BIL. SEBUT HARGA: KHEU / BDP / 164 / 036 / 2024

TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG, DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM

TARIKH TUTUP TAWARAN : 26 Jun 2024 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 B01 & E01 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
  - 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 ianya tidak sah.
7. Kerajaan Kebawah Duli Yang Maha Mulia Paduka Seri Baginda Sultan Dan Yang Dipertuan Negara Brunei Darussalam melalui Kementerian Hal Ehwal Ugama, Negara Brunei Darussalam, tidak akan terikat untuk memilih sebarang tawaran yang lebih murah atau yang difikirkan tidak munasabah.

  
( 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 / 036 / 2024

PROJECT : TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH  
MAKAM DIRAJA, JALAN TUTONG, DAERAH BRUNEI MUARA, MINISTRY  
OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM

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CLASS : III

CATEGORY : B01 & E01

CLOSING DATE : WEDNESDAY 26 JUNE 2024 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 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG, DAERAH  
BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM**

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\* - *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 26 Jun 2024 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 / 036 / 2024 Quotation Closing Date : 26 Jun 2024  
Project Title : TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG, DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM





BUILDING AND MAINTENANCE SECTION  
 MINISTRY OF RELIGIOUS AFFAIRS  
 NEGARA BRUNEI DARUSSALAM

Quotation For : TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG,  
 DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM

Quotation No. : KHEU / BDP / 164 / 036 / 2024 Closed on : 26 Jun 2024 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 12 Days / ~~Weeks~~ / Months \* in accordance with the terms and conditions below  
 below.

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

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

2.2 Company Address : \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

B
Company Stamp

2.3 Tel. No. : \_\_\_\_\_ Fax No. : \_\_\_\_\_

2.4 Date : \_\_\_\_\_ Email : \_\_\_\_\_

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



## **PART B - TERMS OF QUOTATION**

### **1.0 BASIS OF QUOTATION, OVERALL OBLIGATIONS AND ADMINISTRATION**

#### **1.1 Overall Obligations of the Government:**

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

#### **1.2 Overall Obligations of the Contractor:**

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

#### **1.3 Instructions, Certifications & Job Orders**

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

### **2.0 QUALITY, HEALTH, SAFETY AND ENVIRONMENT**

#### **2.1 Quality**

- 2.1.1 The Contractor must do his Works based on the documents referred to in this Contract and other instructions and information given to him by the Contract Administrator.
- 2.1.2 If any of the Works is not done according to this Contract or if there is any other breach of this Contract by the Contractor, the Contract Administrator shall inform the Contractor of the shortfall(s) in writing. The Contractor must rectify the shortfall(s).
- 2.1.3 If the Contractor does not rectify the shortfall(s), the Contract Administrator may arrange others to rectify the shortfall(s). The Contract Administrator can also certify either:
  - (a) The cost of rectifying such shortfall(s); or
  - (b) The reduced value of the completed Works due to such shortfall(s)as provided in the Payment Certification Clause.
- 2.1.4 The Contract Administrator can continue to do this throughout the project and during the Defects Liability Period (as stated in the Appendix Item No. 3.0) after the Contract Administrator confirms the Works is complete as provided in the Completion Clause.

#### **2.2 Health, Safety And Environment**

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

### **3.0 TIME OBLIGATIONS**

#### **3.1 Starting, Progress and Finishing**

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



### 3.2 Adjusting Time for Completion

- 3.2.1 If the Government or Contract Administrator or anyone within either of their responsibility or control (which includes other Contractors on site), or anything beyond the Contractor's control, disrupts the Contractor from finishing within the completion period, the Contract Administrator must assess the impact of this disruption on the Contractor's Works.
- 3.2.2 If any Completion Date(s) is affected the Contract Administrator must adjust the Completion Date(s).
- 3.2.3 This must be done in a written certificate clearly identified as Extension of Time Certificate.

### 3.3 Completion

- 3.3.1 When the Contractor practically completed all the Works, he shall inform the Contract Administrator stating he has completed.
- 3.3.2 The Contract Administrator must decide when the Works has actually practically completed by the Contractor.
- 3.3.4 The Contract Administrator must decide when all obligations of the Contractor are fully discharged.
- 3.3.5 This decision must be in a written certificate clearly identified as a Final Completion Certificate.
- 3.3.6 This must be done after the end of Defects Liability Period (as stated in the Appendix Item No. 3.0) or when the Contractor has rectified all the shortfall(s) including Works that is not according to this Contract and any other breach of Contract by the Contractor identified by the Contract Administrator, whichever is later.

### 3.4 Delayed Completion

- 3.4.1 If the Contractor does not finish by the date stated in the Contract or Job Order, he shall pay Liquidated and Ascertained Damages due to the delay to the Government as provided in the Payment Certification Clause.
- 3.4.2 Liquidated Damages is calculated for delay between when the Contractor should have completed the Works and when he actually completed the Works.

## 4.0 VARIATIONS TO WORK

- 4.1.1 The Contract Administrator can issue instructions to vary the Works to be done.
- 4.1.2 If the Contract Administrator instructs the Contractor to vary any of the Works and there is a financial impact, the Contract Administrator must certify the value of the variation work as provided in the Payment Certification Clause.
- 4.1.3 The Contract Administrator must value the variation work using the Summary of Works rates and/or adjusted Schedule of Rates. If neither are available then using fair market rates.
- 4.1.4 This shall be done in a written certificate clearly identified as Variation Order certificate.

## 5.0 PAYMENT CERTIFICATION

### 5.1 Claims and Payment Certificate

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

### 5.2 Contents of Payment Certificate:

- 5.2.1 The payment certificate must include the following:  
Add the following:
  - (a) Cumulative value of the Works done. This is valued based on Summary of Works rates and/or adjusted Schedule of Rates, if any. If none, then valued based on fair market rates.
  - (b) Value of variation work properly instructed by the Contract Administrator and properly done by the Contractor.
- 5.2.2 Deduct the following:
  - (a) Liquidated and Ascertained Damages which is calculated for delay between when the Contractor should have completed the Works and when he actually practically completed the Works.
  - (b) The value of any shortfall(s) due to Works done according to this Contract or due to any other breach of this Contract by the Contractor which the Contract Administrator has informed the Contractor. If the Contractor does not rectify the shortfall(s) the Contract Administrator can certify either:
    - (i) The cost of rectifying such shortfall(s) by others; or
    - (ii) The reduced value of the completed Works due to such shortfall(s) as stated in the Appendix.
  - (c) A percentage of the sum of total additions above will be retained (as the Retention Sum) and released after the end of Defects Liability Period or when the Contractor rectified all the shortfall(s) including Works that are not done according to this Contract and any other breach of contract by the Contractor identified by the Contract Administrator.



- (d) The Net Amount Payable is the amount the Government must pay to the Contractor. This is calculated by:
  - (i) Adding the total under additions above;
  - (ii) Deducting the total of all deductions above; and
  - (iii) Deducting the cumulative amount certified previously.
- (e) The Contract Administrator may deduct any monies owed by the Contractor to the Government under this Contract or any contract(s) from the Contractor's payments.

## 6.0 TERMINATION OF CONTRACT

### 6.1 If the Contractor:

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

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

### 6.2 If the Contractor:

- (a) Becomes bankrupt; or
- (b) Goes into liquidation; or
- (c) Has offered or given or agreed to give to any person any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any action in relation to the obtaining or execution of this Contract with the Government, or for showing 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**

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



**BORANG PENGAKUAN**  
*DECLARATION FORM*

<b>BILANGAN SEBUT HARGA</b> <i>(QUOTATION NO.)</i>	: KHEU / BDP / 164 / / 2024
<b>TAJUK SEBUT HARGA</b> <i>(QUOTATION TITLE)</i>	: TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG, DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM
<b>KEMENTERIAN / JABATAN</b> <i>(MINISTRY / DEPARTMENT)</i>	:

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

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



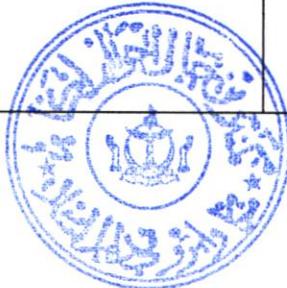
BILL OF QUANTITIES



**BILL NO. 1**  
**GENERAL & PRELIMINARIES**



Item No.	Description	Unit	Rate
	<p><b><u>BILL NO. 1 - GENERAL &amp; PRELIMINARIES</u></b></p> <p><b><u>GENERAL REQUIREMENTS:</u></b></p> <p>Supply of all necessary, appropriate labour, approved materials, proper and safe hand and / or powered tools and equipment including scaffolding and transportation (where necessary) for the proper, safe execution, completion inclusive contractor's own electrical and water generator and accordance to the S.O or O.I.C's instructions and satisfaction.</p> <p>Only materials approved by ABCI, Ministry of Development and Ministry of Health can be used for the contract. Contractor to submit all necessary approval documentation for consideration, all to the satisfaction of the O.I.C.</p> <p>Contractors to work when access to site is available. No. claims will be entertained even if access is after normal office hour or during public holiday.</p> <p>Normal working time:-                      monday from: 7.45am - 4.30pm                      Tuesday from: 7.45am - 4.30pm                      Wednesday from: 7.45am - 4.30pm                      Thursday from: 7.45am - 4.30pm                      Saturday from: 7.45am - 4.30pm</p> <p>Contractor to comply all work instruction urgently within the same day of issuance of instruction of work order / Job order by the S.O or O.I.C.</p> <p>Contractor to make good and match to all adjacent of all affected of all affected areas as per to O.I.C's instructions and satisfaction.</p> <p>Contractor to keep all site clean and tidy at all times. Unwanted materials and debries to be removed and disposed to contractor's own dumping ground which is approved by the O.I.C. All in accordance to current Brunei Government Law and Regulation.</p> <p>Contractor to clean up work area after each completion work. All equipments, materials and tools must be remove from site immediately once work is completed.</p> <p>If any damages found to the tenant's property done by the works, the Contractor shall be held fully responsible and bear all the repair cost.</p> <p>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.</p> <p>The contractor shall permit other contractor and the superintending officer to use any part of the works.</p> <p>If main contractor do not have any of these category and are not eligible to carry out these specialist works, the main contractor need to assign sub contractor to do the specific works base on the category as per ABCI requirements. Below are the categories:</p> <p>KPB02 - Waterproofing                      KPB04 - Plumbing and Sanitary Works                      KPB05 - Pest Control                      KPB11A - Structural Repair</p>		



Item No.	Description	Unit	Rate
1.0	<b><u>PRELIMINIARIES</u></b>		
1.1	Allow for sum considered necessary to comply with the requirement of Preliminaries and Condition of Contract and including site cleaning & clearing up after completion, site safety & health and for every item of cost the contractors is required to provide for the proper execution and completion of the works.	LS	\$ 1,000.00
1.2	<b><u>Insurances</u></b>		
	Allow for all expenses incurred including payments of premium for providing		
1.2.1	a) Public liability Policy in the joint names of the Government and the contractor	LS	\$ 500.00
1.2.2	b) Fire Policy in the joint names of the Government and the contractor	LS	\$ 300.00
1.2.3	c) Workmen's compensation policy in the joint names of the government and the contractor	LS	\$ 300.00
1.3	<b><u>Health and Safety</u></b> To provide tools and testing equipment up to standard requirements as stipulated in any international / local approved guidelines i.e General practise of Maintenance Engineering of DES for Electrical installation Regulation (2011 - 1st Edition) and IEE regulation  To ensure and monitor through out the contract period all works to be carried out must meet the safety and health requirement for the workers on site as required by PWD  <b>Note: OSH must be comply with PWD HSE policy / rules /guidleines and ministry of Health Guidlines</b>	LS	\$ 600.00
1.4	<b><u>Hoisting and Others Lifting Facilities</u></b> To provide hoisting equipment or any required machine for working at height maintenance (for requirement above 30 meter high) required by BBDP, KHEU for transporting goods to assigned place.	LS	\$ 500.00
1.5	<b><u>Programme Charts</u></b>  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.  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.  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.  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.  Submit progress (S-Curve) payement weekly / monthly including supported documents (Data, pictures, client endorsement, etc)	LS	\$ 400.00



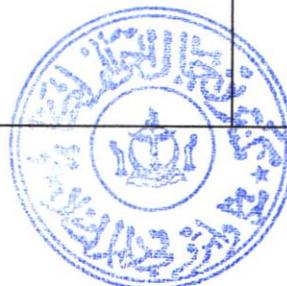
Item No.	Description	Unit	Rate
1.6	<p><b><u>Temporary Scaffolding</u></b></p> <p>Provide, maintain and remove when directed by the S.O. and make good all temporary scaffolding with staging, planked footways, guard-rails and the like and to whatever height as may required for the use of the workmen in accordance of the S.O. and <i>Safety, Health and Environment National Authority (SHENA)</i> .</p> <p>Scaffold board should not be less than 225mm wide. Working platforms for men without materials or only for passage of materials must be 500mm width. For men and materials provided there is 800mm width, provided there is 430mm left clear for the passage men or 600mm if barrows are used. Toe-board must be fitted in conjunction with all guard-rails, a minimum height of 150mm.</p> <p>Only suitable access ladders for scaffolding are to be used which comply with all safety requirements. Home-made ladders are forbidden to be used on scaffolding and must be remove immediately.</p> <p>Should the Contractor strike any of his scaffolding before ascertaining whether it is required by any Sub-Contractor or Public undertaking, he must re-erect it if so required at his own remove immediately.</p> <p>Should the Contractor strike any of his scaffolding before ascertaining whether it is required by any Sub-Contractor or Public undertaking, he must re-erect it if so required at his own expense.</p> <p>The design and construction of scaffolding and staging must comply with all safety requirements according to <b>Safety, Health and Environment National Authority (SHENA), "Guidelines For The Safe Use Of Scaffolding"</b>, Ref No.: IGN 01/2020.</p> <p>Provide for any modification and/or re-erection to the foregoing or scaffolding which may become necessary.</p>	LS	\$ 1,500.00



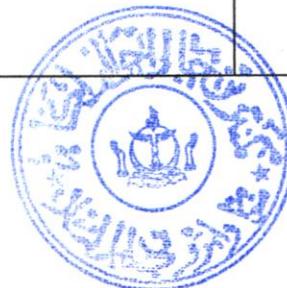
**BILL NO. 2**  
**BUILDING WORKS**



Item No.	Description	Unit	Rate
<b>B2</b>	<b><u>BILL NO. 2 - BUILDING WORKS</u></b>		
<b>1.0</b>	<b><u>EARTHWORKS &amp; EXCAVATION</u></b>		
<b>1.1</b>	<b><u>Imported Fill</u></b>		
<b>1.1.1</b>	<u>Selected imported dry earth consolidated in layers</u>		
<b>1.1.1.1</b>	Filling to make up levels	m3	\$ 5.00
<b>1.1.1.2</b>	Backfilling around walls and foundations	m3	\$ 8.50
<b>1.1.2</b>	<u>Hardcore; filling to make up levels well consolidated</u> Over 300mm thick	m3	\$ 50.00
<b>1.1.3</b>	<u>Hardcore; beds well consolidated</u>		
<b>1.1.3.1</b>	100mm thick (average); blinding with sand / concrete	m2	\$ 6.50
<b>1.1.3.2</b>	150mm thick (average); blinding with sand / concrete	m2	\$ 9.00
<b>1.1.4</b>	<u>Sand consolidated in layers</u>		
<b>1.1.4.1</b>	50mm thick (average)	m2	\$ 2.50
<b>1.1.4.2</b>	75mm thick (average)	m2	\$ 3.50
<b>1.1.4.3</b>	50mm - 75mm Top Soil	m2	\$ 3.00
<b>1.1.4.4</b>	Close turfing using cow grass laying to flat ground	m2	\$ 3.50
<b>1.1.4.5</b>	Over 300mm thick	m3	\$ 30.00
<b>1.2</b>	<b><u>Excavation</u></b>		
<b>1.2.1</b>	<u>General excavation depth and dispose off site</u>		
<b>1.2.1.1</b>	average 100mm deep	m2	\$ 1.50
<b>1.2.1.2</b>	average 200mm deep	m2	\$ 2.00
<b>1.2.1.3</b>	over 300mm deep	m3	\$ 6.00
<b>1.2.2</b>	<u>Excavate for footing and likes; dispose off site</u>		
<b>1.2.2.1</b>	Light-weight machinery	m3	\$ 9.00
<b>1.2.2.2</b>	Hand excavation in restricted area	m3	\$ 20.00
<b>2.0</b>	<b><u>DEMOLITION AND ALTERATION</u></b>		
	Note:		
	Break-up concrete including cutting and bending or reinforcement; dispose off site; all necessary excavation and backfilling; make good all work disturbed in material to match existing		
<b>2.1</b>	<u>To demolish and remove existing reinforced concrete superstructures, substructures, ground slabs including any finishes and sub base under and dispose off-site</u>		
<b>2.1.1</b>	100mm thick	m2	\$ 8.00
<b>2.1.2</b>	150mm thick	m2	\$ 10.00
<b>2.1.3</b>	200mm thick	m2	\$ 12.00
<b>2.1.4</b>	250mm thick	m2	\$ 15.00
<b>2.1.5</b>	300mm thick	m2	\$ 18.00



Item No.	Description	Unit	Rate
<b>2.2</b>	<u>Strip off or remove and dispose off-site roof finishes</u>		
2.2.1	Waterproof membrane roof finishes and cleaning surfaces using appropriate solvent to bare concrete; flat roof, side and bottom gutters	m2	\$ 2.00
2.2.2	Roof finishes complete with all flashing, underlaying roofing paper, insulation and weld mech	m2	\$ 8.00
2.2.3	Roof structure and finishes complete with all flashing, underlaying roofing paper, insulation, weld mesh and members / trusses	m2	\$ 11.00
<b>2.3</b>	<u>Removal metal cladding; clear all debris off site</u> Wall cladding including metal or timber framing	m2	\$ 2.50
<b>2.4</b>	<u>Break up, demolish existing wall or partition including any finishes; provide opening including necessary temporary supports; make good works disturbed; clear debris off site</u>		
2.4.1	Brickwall half brick thick	m2	\$ 6.00
2.4.2	Brickwall one brick thick	m2	\$ 11.00
2.4.3	Brickwall one and a half brick thick	m2	\$ 15.00
2.4.4	Brickwall two brick thick	m2	\$ 18.00
2.4.5	Clear glass block	m2	\$ 10.00
2.4.6	Block wall	m2	\$ 7.00
2.4.7	Timber partition	m2	\$ 5.00
2.4.8	Timber partition including framing	m2	\$ 7.00
<b>2.5</b>	<u>Hack or take off existing any wall or floor finishes; clear debris off site</u>		
2.5.1	Cement and sand screed and / or finishes to floor, skirting, landing, walls, etc. and form keys, clean and wash to receive new finishes	m2	\$ 5.00
2.5.2	Floor carpet and the likes complete with any underlay and remove any adhesive	m2	\$ 2.50
<b>2.6</b>	<u>Remove existing ceiling, clear all debris off site</u>		
2.6.1	Softboard, hardboard, gypsum board, cement board or metal ceiling and the likes	m2	\$ 1.60
2.6.2	Softboard, hardboard, gypsum board, cement board or metal ceiling and the likes; complete with all framing or suspension system	m2	\$ 2.00
2.6.3	Timber slate	m2	\$ 3.00
<b>2.7</b>	<u>Remove and dispose offsite timber, glass, aluminium doors and the likes</u>		
2.7.1	Single leaf	No.	\$ 4.00
2.7.2	Double equal leaf	No.	\$ 7.00
2.7.3	Double unequal leaf	No.	\$ 6.50
<b>2.8</b>	<u>Remove and dispose off site timber, glass, aluminium doors and the likes including frames and jambs</u>		
2.8.1	Single leaf	No.	\$ 5.00
2.8.2	Double equal leaf	No.	\$ 8.00
2.8.3	Double unequal leaf	No.	\$ 7.50
<b>2.9</b>	<u>Remove and dispose off site existing frames and jambs; to relocate existing doors and install to new frames and jambs</u>		
2.9.1	Single leaf	No.	\$ 40.00
2.9.2	Double equal leaf	No.	\$ 55.00
2.9.3	Double unequal leaf	No.	\$ 50.00
<b>2.10</b>	<u>Remove and dispose offsite rainwater goods; to hack off concrete including all fittings and brackets</u> UPVC or metal gutter, downpipes etc	m	\$ 1.50



Item No.	Description	Unit	Rate
<b>2.11</b>	<u>Break up R.C perimeter drain, sumps or kerbs, cutting and bending of reinforcement dispose debris off site</u>		
2.11.1	Not exceeding 250mm	m	\$ 4.00
2.11.2	250mm - 350mm	m	\$ 6.00
2.11.3	300mm - 450mm	m	\$ 7.00
2.11.4	450mm - 600mm	m	\$ 8.00
2.11.5	R.C sump average size 600mm x 600mm wide	No.	\$ 30.00
<b>2.12</b>	<u>Remove existing fencing; clear all debris off site</u>		
2.12.1	1200mm high fencing	m	\$ 2.00
2.12.2	1800mm high fencing	m	\$ 3.00
2.12.3	1200mm high fencing post and bracing	No.	\$ 3.50
2.12.4	1800mm high fencing post and bracing	No.	\$ 4.00
<b>2.13</b>	<u>Remove existing; make good works disturbed; clear all debris off site</u>		
2.13.1	Window including frame	m2	\$ 3.00
2.13.2	Safety grille to door, windows and the like including frame	m2	\$ 2.00
2.13.3	Timber / metal collapsible door, including track, frame, accessories	m2	\$ 4.00
2.13.4	Roller shutter c/w other associate accessories	m2	\$ 6.00
2.13.5	Flag pole complete with accessories and substructure	No.	\$ 25.00
2.13.6	Scupper drain 100mm - 150mm wide including tiling if necessary and other necessary works	m	\$ 10.00
<b>2.14</b>	<u>Handrail consists top rail, bottom rail, intermediate rails and post including cutting and the likes</u>		
2.14.1	Corridor	m	\$ 3.00
2.14.2	Staircase	m	\$ 3.00
<b>2.15</b>	<u>Remove existing fittings and fixtures; make good any works disturbed; clear debris off site</u>		
2.15.1	Timber low level cabinet not exceeding 900mm high x 700mm deep	m	\$ 5.00
2.15.2	Timber high level / wall hung cabinet not exceeding 900mm high x 700mm deep	m	\$ 5.00
2.15.3	Timber wardrobe up to ceiling height	m	\$ 10.00
<b>2.16</b>	<u>Remove existing water tank; make good any works disturbed; dispose off site</u>		
2.16.1	HDPE tank including disconnect plumbing connection and disposal off site	Lot	\$ 100.00
2.16.2	metal water tank including disconnect plumbing connection and disposal off site	Lot	\$ 100.00
<b>3.0</b>	<b><u>CONCRETE AND FORMWORK</u></b>		
3.1	Supply and lay 50mm Grade 15 concrete blinding complete with formwork	m2	\$ 6.00
3.2	<u>Supply and lay concrete in structural works (column, beam, plinth, pile cap, step and staircase) complete with formwork</u>		
3.2.1	Grade 30	m3	\$ 190.00
3.2.2	Grade 40	m3	\$ 220.00
3.3	<u>Supply and lay Grade 25 concrete in slab / apron / wall; trowelled smooth finishes complete with formwork</u>		
3.3.1	100mm thick	m2	\$ 19.00
3.3.2	150mm thick	m2	\$ 28.00
3.3.3	200mm thick	m2	\$ 36.00
3.3.4	250mm thick	m2	\$ 42.00



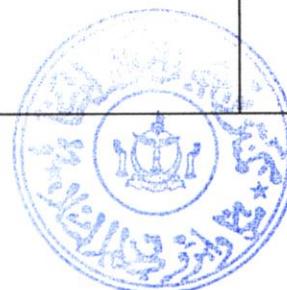
Item No.	Description	Unit	Rate
3.4	<u>Supply and lay Grade 30 concrete in slab / apron / wall; trowelled smooth finishes complete with formwork</u>		
3.4.1	100mm thick	m2	\$ 22.00
3.4.2	150mm thick	m2	\$ 30.00
3.4.3	200mm thick	m2	\$ 38.00
3.4.4	250mm thick	m2	\$ 44.00
4.0	<b><u>REINFORCEMENT</u></b>		
4.1	<u>Mild steel bar reinforcement to B.S 4449 to ; concrete slabs, walls, beams, columns etc.</u>		
4.1.1	not exceeding 10mm $\emptyset$ : links, stirrups, blinders	kg	\$ 2.80
4.1.2	10 - 13mm $\emptyset$ : links, stirrups, binders	kg	\$ 2.60
4.2	<u>High tensile steel bar reinforcement to B.S 4449 to ; concrete slabs, walls, beams, columns etc.</u>		
4.2.1	not exceeding 10mm $\emptyset$ ; general straight and bent bars	kg	\$ 2.70
4.2.2	10 - 13mm $\emptyset$ ; general straight and bent bars	kg	\$ 2.60
4.2.3	16 - 25mm $\emptyset$ ; general straight and bent bars	kg	\$ 2.75
4.2.4	exceeding 25mm $\emptyset$ ; general straight and bent bars	kg	\$ 2.80
4.3	<u>BRC steel fabric reinforcement to B.S 4483 ; well lapped at joints ; concrete slabs</u>		
4.3.1	BRC reference A8	m2	\$ 9.00
4.3.2	BRC reference A7	m2	\$ 8.00
4.3.3	BRC reference A6	m2	\$ 7.00
5.0	<b><u>BRICKWORK, BLOCKWORK AND WALL PARTITION</u></b>		
5.1	<b><u>Brickworks</u></b>		
5.1.1	<u>Brickwork in first grade common bricks to S.S 103 bedded and jointed in cement mortar (1:3) reinforced with Lysaght expanded metal blockwork reinforcement every third course including plastering with thickness to match existing</u>		
5.1.1.1	Half brick 112mm thick	m2	\$ 22.00
5.1.1.2	One brick 225mm thick	m2	\$ 42.00
5.1.2	<u>Plastering to smooth finish including, groove and pattern design to S.O approval</u>		
5.1.2.1	20mm thick to brickwall	m2	\$ 10.00
5.1.2.2	13mm thick to soffit of slab	m2	\$ 10.00
5.1.2.3	13mm thick to column and beam	m2	\$ 10.00
5.1.3	10 - 20mm thick cement and sand plaster to wall	m2	\$ 6.70
5.2	<b><u>Lightweight Block</u></b> Remove existing, supply and install CSR autoclaved lightweight concrete block laid using CSR ALC thin bed adhesive including control joint tie (FBI) to be installed on every third course across 10mm wide control joints as per manufacturer's specification including plastering	m2	\$ 55.00



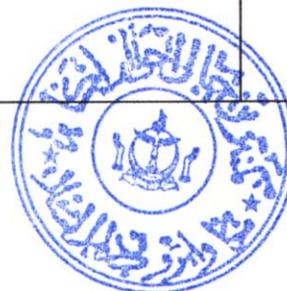
Item No.	Description	Unit	Rate
<b>5.3</b>	<b><u>Glass Block</u></b>		
<b>5.3.1</b>	<u>Remove existing and supply; "Solaris Glasstein" flemish or cross-ribbed or other equal and approved glass blocks in cement and sand mortar mixed with "Dribond" or other equal and approved bonding additive; complete with channels, expansion strips, packing, panel reinforcement, panel anchors and other items for complete installation in accordance to the manufacturer's recommendation</u>		
<b>5.3.1.1</b>	150mm x 150mm x 80mm thick	m2	\$ 200.00
<b>5.3.1.2</b>	190mm x 190mm x 80mm thick	m2	\$ 230.00
<b>5.3.2</b>	<u>Supply and install new "Solaris Glasstein" flemish or cross-ribbed or other equal and approved glass blocks in cement and sand mortar mixed with "Dribond" or other equal and approved bonding additive; complete with channels, expansion strips, packing, panel reinforcement, panel anchors and other items for complete installation in accordance to the manufacturer's recommendation</u>		
<b>5.3.2.1</b>	150mm x 150mm x 80mm thick	m2	
<b>5.3.2.2</b>	190mm x 190mm x 80mm thick	m2	\$ 120.00
<b>5.4</b>	<b><u>Wall Partition</u></b>		
<b>5.4.1</b>	To supply and install new Kapur Bukit / Keruing or any other approved equivalent of shiplap / T&G timber wall board to match the existing wall complete with primer and 2 coats of approved painting (all as per O.I.C'S approval) including all other necessary works and accessories required as per S.O's instructions	m2	\$ 33.00
<b>5.4.2</b>	To supply and install new gypsum wall partition including metal framing and complete with putty to smooth to match existing wall	m2	\$ 45.00
<b>6.0</b>	<b><u>ROOF WORKS</u></b>		
<b>6.1</b>	<u>Removing existing; supply and install new roof sheet; complete with tap-screw, fastener; or fixed brakets/clips with wafer head screws; and any other necessary accessories of selected standard colour, including all sides and end laps (measured net - no allowance for laps)</u>		
<b>6.1.1</b>	0.40mm Hideck/Speedeck roof sheet	m2	\$ 18.00
<b>6.1.2</b>	0.47mm Hideck/Speedeck roof sheet	m2	\$ 20.00
<b>6.1.3</b>	0.40mm Loratile/Steeptile/E-Gle roof sheet	m2	\$ 15.00
<b>6.1.4</b>	0.47mm Loratile/Steeptile/E-Gle roof sheet	m2	\$ 18.00
<b>6.1.5</b>	0.47mm Kliplok/Spanlok roof sheet	m2	\$ 28.00
<b>6.1.6</b>	0.53mm Kliplok/Spanlok roof sheet corrugated roof sheet	m2	\$ 29.00 \$ 15.00
<b>6.2</b>	<u>Removing existing; supply and install new roof accessories; complete with tap-screw, fastener; or fixed brakets/clips with wafer head screws; and any other necessary accessories of selected standard colour, including all sides and end laps (measured net - no allowance for laps)</u>		
<b>6.2.1</b>	0.40mm/0.47mm ridge cappings	m	\$ 12.00
<b>6.2.2</b>	0.40mm/0.47mm barrel cappings	m	\$ 14.00
<b>6.2.3</b>	0.40mm/0.47mm barge cappings	m	\$ 12.00
<b>6.2.4</b>	0.40mm/0.47mm box barge cover	m	\$ 12.00
<b>6.2.5</b>	0.40mm/0.47mm valley gutter	m	\$ 12.00
<b>6.2.6</b>	0.40mm wall flashing	m	\$ 8.00
<b>6.2.7</b>	0.47mm wall flashing	m	\$ 9.00



Item No.	Description	Unit	Rate
6.3	<u>Supply and install new high tensile steel roof truss framing system all in accordance to manufacturer's specification and as per S.O. or O.I.C's instructions;</u>		
6.3.1	<u>2" x 4" C-channel complete with plates, brackets, grips, joints, screws, bolts, nuts and any other necessary accessories required</u>		
6.3.1.1	1mm thickness	m	\$ 7.00
6.3.1.2	1.6mm thickness	m	\$ 11.00
6.3.1.3	2mm thickness	m	\$ 14.00
6.3.2	<u>Batten complete with plates, brackets, grips, joints, screws, bolts, nuts and any other necessary accessories required</u>		
6.3.2.1	1½" 0.6mm thickness	m	\$ 5.00
6.3.2.2	2½" 0.8mm thickness	m	\$ 7.00
6.4	<u>Remove, supply and install new</u>		
6.4.1	50mm x 50mm chicken wiremesh	m2	\$ 1.00
6.4.2	BRC 3315 / 3316 to roof	m2	\$ 1.50
6.4.3	25mm fibreglass insulation	m2	\$ 1.50
6.5	<u>Supply and install new</u>		
6.5.1	50mm x 50mm chicken wiremesh	m2	\$ 0.80
6.5.2	BRC 3315 / 3316 to roof	m2	\$ 1.30
6.5.3	25mm fibreglass insulation	m2	\$ 1.30
6.6	<u>Remove, supply and install new sisalation roofing paper</u>		
6.6.1	Single-sided	m2	\$ 1.40
6.6.2	Double-sided	m2	\$ 1.70
6.7	<u>Supply and install new sisalation roofing paper</u>		
6.7.1	Single-sided	m2	\$ 0.90
6.7.2	Double-sided	m2	\$ 1.30
6.8	Refix and repair to loose / dented metal roof flashing / fascia including all accessories.	m	\$ 3.00
7.0	<b><u>CARPENTRY AND JOINERY</u></b>		
7.1	Remove all existing defective timber flooring finishes including associated anchillary fixings and the likes using approved hand and/or low-powered tools; inclusive of disposing hacked materials and/or finishes off-site to an approved dumping area; cleaning and preparing exposed surfaces ready for re-laying new materials and/or floor finishes.	m2	\$ 10.00
7.2	<u>Remove existing and replace with new finishings in wrought treated meranti; Floor board with T&amp;G inclusive of all cutting; toungued; grooved and V-joined with fixings; and sanding to smooth ready to receive varnishing/timber tone finishes; as per O.I.C's approval and satisfaction</u>		
7.2.1	25mm x 75mm (1" x 3")	m2	\$ 23.00
7.2.2	25mm x 100mm (1" x 4")	m2	\$ 25.00
7.2.3	25mm x 150mm (1" x 6")	m2	\$ 27.00



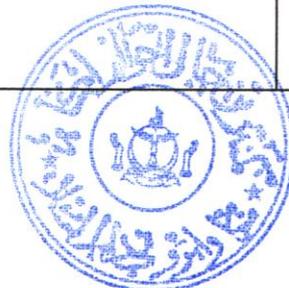
Item No.	Description	Unit	Rate
<b>7.3</b>	<b><u>Supply and install new timber flooring in wrought treated meranti; Floor board with T&amp;G inclusive of all cutting; tongued; grooved and V-joined with fixings; and sanding to smooth ready to receive varnishing/timber tone finishes; as per O.I.C's approval and satisfaction</u></b>		
7.3.1	25mm x 75mm (1" x 3")	m2	\$ 21.00
7.3.2	25mm x 100mm (1" x 4")	m2	\$ 24.00
7.3.3	25mm x 150mm (1" x 6")	m2	\$ 26.00
<b>7.4</b>	<b><u>Removal of existing timber and replace with new sawn, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u></b> <u>Roof trusses, pitched roofs, ceiling joists, partition frame, batten and the likes</u>		
7.4.1	50mm x 50mm (2" x 2")	m	\$ 2.50
7.4.2	50mm x 75mm (2" x 3")	m	\$ 3.50
7.4.3	50mm x 100mm (2" x 4")	m	\$ 5.00
7.4.4	50mm x 125mm (2" x 5")	m	\$ 6.00
7.4.5	50mm x 150mm (2" x 6")	m	\$ 7.00
<b>7.5</b>	<b><u>Removal of existing timber and replace with new sawn, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u></b> <u>Roof boards, fillets grounds, batten, skirting, framing and the likes</u>		
7.5.1	25mm x 25mm (1" x 1")	m	\$ 1.50
7.5.2	25mm x 50mm (1" x 2")	m	\$ 2.00
7.5.3	25mm x 75mm (1" x 3")	m	\$ 3.00
7.5.4	25mm x 100mm (1" x 4")	m	\$ 4.00
7.5.5	25mm x 150mm (1" x 6")	m	\$ 6.00
7.5.6	25mm x 200mm (1" x 8")	m	\$ 7.00
7.5.7	50mm x 200mm (2" x 8")	m	\$ 9.00
<b>7.6</b>	<b><u>Removal of existing timber and replace with new wrought, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u></b> <u>Roof boards, fillets grounds, batten, skirting, framing and the likes</u>		
7.6.1	25mm x 25mm (1" x 1")	m	\$ 1.00
7.6.2	25mm x 50mm (1" x 2")	m	\$ 1.50
7.6.3	25mm x 75mm (1" x 3")	m	\$ 2.50
7.6.4	25mm x 100mm (1" x 4")	m	\$ 3.50
7.6.5	25mm x 150mm (1" x 6")	m	\$ 5.50
7.6.6	25mm x 200mm (1" x 8")	m	\$ 6.50
7.6.7	50mm x 200mm (2" x 8")	m	\$ 8.50
<b>7.7</b>	<b><u>Removal of existing timber and replace with new wrought, treated Selangan Batu structural timbers; including 2 coats of wood preservative</u></b>		
7.7.1	25mm x 200mm (1" x 8")	m	\$ 15.00
7.7.2	50mm x 50mm (2" x 2")	m	\$ 2.50
7.7.3	50mm x 75mm (2" x 3")	m	\$ 3.50
7.7.4	50mm x 100mm (2" x 4")	m	\$ 7.50
7.7.5	50mm x 125mm (2" x 5")	m	\$ 8.00
7.7.6	50mm x 150mm (2" x 6")	m	\$ 9.50
7.7.7	100mm x 100mm (4" x 4")	m	\$ 10.00
7.7.8	150mm x 150mm (6" x 6")	m	\$ 20.00
<b>7.8</b>	<b><u>Temporary removal of suspended ceilings and the likes</u></b> temporary remove, put and store safety aside existing suspended ceilings and likes; including refixing and reinstalling back to original areas / locations	m2	\$ 10.00



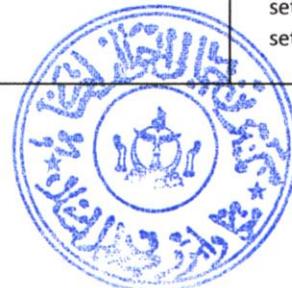
Item No.	Description	Unit	Rate
7.9	<u>Supply and install new fascia board complete with all necessary accessories and seal gap/joint with body filler putty to smooth finish to match existing</u>		
7.9.1	6"	m	\$ 7.50
7.9.2	8"	m	\$ 9.00
7.10	<b><u>Ceiling and Wall boarding</u></b>		
7.10.1	<u>Remove, supply and fix ceiling / wall to existing frame including taping and a 3mm coat of fine gypsum plaster at all joints</u>		
7.10.1.1	Softboard	m2	\$ 13.00
7.10.1.2	6mm thick Gypsum board	m2	\$ 18.00
7.10.1.3	9mm thick Gypsum board	m2	\$ 21.00
7.10.1.4	12mm thick Gypsum board	m2	\$ 23.00
7.10.1.5	Cement board	m2	\$ 15.00
7.10.1.6	5mm thick Duravent ceiling	m2	\$ 20.00
7.10.1.7	5.2mm thick Plywood	m2	\$ 12.00
7.10.1.8	12mm thick Plywood	m2	\$ 18.00
7.10.2	<u>Remove, supply and fix ceiling / wall including GI framing system complete with all necessary runners, cross runners, wall angles. Road hangers and hanging wire taping and a 3mm coat of fine gypsum plaster at all joints</u>		
7.10.2.1	Softboard	m2	\$ 15.00
7.10.2.2	6mm thick Gypsum board	m2	\$ 23.00
7.10.2.3	9mm thick Gypsum board	m2	\$ 26.00
7.10.2.4	12mm thick Gypsum board	m2	\$ 28.00
7.10.2.5	Cement board	m2	\$ 23.00
7.10.2.6	5mm thick Duravent ceiling	m2	\$ 25.00
7.10.2.7	5.2mm thick Plywood	m2	\$ 15.00
7.10.2.8	12mm thick Plywood	m2	\$ 20.00
7.10.3	Refix and repair to loose / sagged ceiling including nailing and all necessary works to match existing and make good works disturbed	m2	\$ 5.00
7.11	<u>Remove and supply;</u>		
7.11.1	Construction of timber partition consists of 50mm x 100mm timber framing at 1200mm centre both way and lined both faces with 12mm plywood to BS1088	m2	\$ 35.00
7.11.2	Construction of gypsum board partition consists of GI framing and lined both faces with 12mm gypsum board including filling all nail holes smooth, taping and plastering all joining	m2	\$ 28.00
7.12	9mm thick masterclad for external wall	m2	\$ 38.00
7.13	<u>Remove, supply and fix plaster glass cornice</u>		
7.13.1	50mm thick	m	\$ 8.00
7.13.2	100mm thick	m	\$ 13.00
7.14	<b><u>Doors</u></b>		
7.14.1	<u>Repair existing solid / flush door inclusive 5mm thick plywood on both sides glued and nailed to the frames and the other necessary repair works required</u>		
7.14.1.1	± 38mm x 915mm x 2134mm	No.	\$ 23.00
7.14.1.2	General	m2	\$ 11.80



Item No.	Description	Unit	Rate
<b>7.14.2</b>	<u>Remove existing, supply and install; solid panelled doors generally constructed in red meranti; complete with approved painting</u>		
7.14.2.1	Single leaf	No.	\$ 150.00
7.14.2.2	Single leaf with size of less than 900mm x 2100mm	No.	\$ 120.00
7.14.2.3	Double equal leaf	No.	\$ 300.00
7.14.2.4	Double unequal leaf	No.	\$ 230.00
<b>7.14.3</b>	<u>ditto; complete with approved painting, framing, jambs, hinges and any necessary fittings</u>		
7.14.3.1	Single leaf	No.	\$ 200.00
7.14.3.2	Single leaf with size of less than 900mm x 2100mm	No.	\$ 170.00
7.14.3.3	Double equal leaf	No.	\$ 350.00
7.14.3.4	Double unequal leaf	No.	\$ 280.00
<b>7.14.4</b>	<u>Remove existing, supply and install; solid panelled doors generally constructed in double plywood; complete with approved painting/formica</u>		
7.14.4.1	Single leaf	No.	\$ 120.00
7.14.4.2	Double equal leaf	No.	\$ 240.00
7.14.4.3	Double unequal leaf	No.	\$ 200.00
<b>7.14.5</b>	<u>ditto; complete with approved painting, framing, jambs, hinges and any necessary fittings</u>		
7.14.5.1	Single leaf	No.	\$ 290.00
7.14.5.2	Double equal leaf	No.	\$ 240.00
7.14.5.3	Double unequal leaf	No.	\$ 250.00
<b>7.14.6</b>	<u>Remove existing, supply and install; Flush doors generally constructed in teak veneered plywood; complete with approved painting</u>	No.	\$ 180.00
	Single leaf		
<b>7.14.7</b>	<u>ditto; complete with approved painting, framing, jambs, hinges and any necessary fittings</u>	No.	\$ 230.00
	Single leaf		
<b>7.14.8</b>	<u>Remove existing, supply and install; UPVC doors complete with framing, jambs, hinges and any necessary fittings</u>		
7.14.8.1	Plain	No.	\$ 140.00
7.14.8.2	Plain with size of less than 900mm x 2100mm	No.	\$ 120.00
7.14.8.3	Plain with ventilated louvers	No.	\$ 150.00
7.14.8.4	Decorative	No.	\$ 160.00
<b>7.14.9</b>	<u>Remove existing, supply and install; UPVC doors only complete with hinges</u>		
7.14.9.1	Plain	No.	\$ 110.00
7.14.9.2	Plain with size of less than 900mm x 2100mm	No.	\$ 95.00
7.14.9.3	Plain with ventilated louvers	No.	\$ 120.00
7.14.9.4	Decorative	No.	\$ 130.00
7.14.9.5	UPVC jambs	No.	\$ 50.00
<b>7.14.10</b>	Refix and repair to loose / tilted / misaligned door panel including frame / jamb, accessories / fittings and make good works disturbed	No.	\$ 3.00
<b>7.14.11</b>	<u>Remove existing and replace with new finishings in wrought treated Kapur Bukit</u>		
	<u>Door frames, window frames and the likes</u>		
7.14.11.1	38mm x 125mm	m	\$ 9.00
7.14.11.2	28mm x 150mm	m	\$ 10.00



Item No.	Description	Unit	Rate
7.14.11.3	28mm x 200mm	m	\$ 3.00
7.14.11.4	50mm x 125mm	m	\$ 10.00
7.14.11.5	50mm x 150mm	m	\$ 12.00
7.14.12	<u>Remove existing and replace with new timber door jamb, aircond opening frames, window frames and the likes including cutting, joining, painting/Varnishing and make good affected area to match existing</u>		
7.14.12.1	25mm x 25mm	m	\$ 0.80
7.14.12.2	25mm x 50mm	m	\$ 1.30
7.14.12.3	25mm x 75mm	m	\$ 2.00
7.14.12.4	25mm x 100mm	m	\$ 2.60
7.14.12.5	25mm x 150mm	m	\$ 3.70
7.14.12.6	25mm x 200mm	m	\$ 4.90
7.14.12.7	50mm x 50mm	m	\$ 3.00
7.14.12.8	50mm x 100mm	m	\$ 4.20
7.14.12.9	50mm x 125mm	m	\$ 5.50
7.14.12.10	50mm x 150mm	m	\$ 6.50
7.14.13	<u>Remove existing, supply and install; Formica 0.7mm thick laminated plastic sheet; fixing with a contact adhesive; color as per selected standard color</u> Timber surfaces	m2	\$ 41.00
7.14.14	<u>Remove existing, supply and install; maica 0.88mm thick high pressure laminate sheet; fixing with a contact adhesive; colour as per selected standard colour</u> Timber surfaces	m2	\$ 24.00
7.15	<b><u>Fittings</u></b>		
7.15.1	<u>Demolish existing; Construct new fittings and fixtures generally in wrought treated red meranti including assembling, fixing in position, lugging and screwing to brickworks or concrete, painting, decorating and ironmongery</u>		
7.15.1.1	Counter not exceeding 950mm (H) x 900mm (W)	m	\$ 235.00
7.15.1.2	Low level cabinet not exceeding 750mm (H) x 600mm (W)	m	\$ 210.00
7.15.1.3	Wall hung cabinet not exceeding 600mm (H) x 600mm (W)	m	\$ 195.00
7.15.2	<u>Demolish existing; Construct new fittings and fixtures generally in wrought treated red meranti including assembling, fixing in position, lugging and screwing to brickworks or concrete, painting, decorating and ironmongery</u>		
7.15.2.1	Benches not exceeding 500mm (H) x 500mm (W)	m	\$ 185.00
7.15.2.2	Cabinet up to ceiling height with a width of 600mm and approx. height of 3m	m	\$ 550.00
7.15.3	<u>Refix and repair to counter / cabinet / benches or to replace fixtures / fittings with new to match existing, dispose debris off-site and make good works disturbed</u>		
7.15.3.1	Frames	m	\$ 1.00
7.15.3.2	Surfaces / Layers	m2	\$ 2.00
7.15.3.3	Door	m2	\$ 2.00
7.15.3.4	Adjust / tighten misaligned / loose knob / hinges / door / drawer	Lot	\$ 2.00
7.15.4	<u>Remove existing door and replace, fabricate and install with new Solid Nytoh decorative door with frame (model No.: Km-01) complete with 6 nos x 100mm heavy duty standard steel hinges, "TITAN" decorative lockset, "Union 5610-180" door review er and "Union" safety lockset or other approved equivalent, 2 No.s x 150mm Tow Bolt, all to match existing</u>		
7.15.4.1	Approx. size: ± 40mm x 1500mm x 2130mm, one-half leaf	set	\$ 450.00
7.15.4.2	Approx. size: ± 40mm x 1830mm x 2130mm, double leaves	set	\$ 550.00



Item No.	Description	Unit	Rate
7.15.5	<u>Remove existing door and replace with new single leaf solid glass wood panel decorative door with frame (pattern to OIC instructions and satisfaction) complete with 3 nos x 100mm heavy duty standard steel hinges, "Union" knob lockset or technically approved equivalent</u> Approx. size: ± 40mm x 915mm x 2100mm	set	\$ 365.00
7.15.6	<u>Remove existing door and replace with new single leaf flush door consists of 25mm x 75mm internal timber framing joint together, 5mm thick plywood on both sides glued and nailed to the frames, lined with 12mm x 38mm timber frames around door edges complete with 3 nos x 100mm brass hinges, "Union" knob (model No.: 9308) lockset or the other approved equivalent, and to suit door opening and other necessary works required as per OIC's instruction</u>		
7.15.6.1	± 38mm x 815mm x 2058mm	set	\$ 115.00
7.15.6.2	± 38mm x 915mm x 2134mm	set	\$ 129.00
7.15.6.3	± 38mm x 750mm x 2100mm with 410mm x 410mm aluminium ventilation louvers and frames	set	\$ 140.00
7.15.7	Remove existing flush door and to supply and install new approved decorative 715mm x 1960mm high "Nan-Ya Type 2" PVC door complete with PVC door frame, 2 nos x 50mm chrome plated hinges, "Union" knob lockset and to fit opening to existing master Bathroom, Quest Toilet and maid's Quarter's Bathroom	Set	\$ 135.00
8.0	<b><u>IRONMONGERY</u></b>		
8.1	<u>Supply and install stainless steel door lockset complete with screws as per S.O. or O.I.C's instruction</u>		
8.1.1	rectangle lever lockset	No.	\$ 43.00
8.1.2	round lever lockset	No.	\$ 22.00
8.1.3	cylinder door knob lockset	No.	\$ 14.00
8.1.4	sliding door lockset	No.	\$ 20.00
8.2	<u>Supply and install; complete with screws as per S.O. or O.I.C's instruction</u>		
8.2.1	stainless steel single cylinder deadbolts	No.	\$ 14.00
8.2.2	stainless steel double cylinder deadbolts	No.	\$ 15.00
8.2.3	rubber door stopper	No.	\$ 5.00
8.2.4	stainless steel magnetic door stopper	No.	\$ 7.00
8.3	<u>Remove existing, supply and fix 100mm Heavy duty steel butt hinges to B.S 1227 fixed to timber with matching screws;</u>		
8.3.1	Stainless steel finish	No.	\$ 6.00
8.3.2	Brass finish	No.	\$ 2.00
8.4	Supply and fix Union 8094 CH indicating bolt or equivalent approved	No.	\$ 30.00
8.5	Supply and fix Figo 587 SS or approved equivalent push button knob cylindrical lockset in brush silver finish	No.	\$ 30.00
8.6	Supply and fix Figo 28A5 SN lever lockset or approved equivalent in brush silver finish	No.	\$ 60.00
8.7	Supply and fix 90mm Union 8056 barrel bolt	No.	\$ 20.00
8.8	<u>Remove, supply and fix 100mm Heavy duty steel butt hinges to B.S 1227 fixed to timber with matching screws;</u> Supply and fix 240mm Union 8056 barrel bolt	No.	\$ 25.00



Item No.	Description	Unit	Rate
8.9	Remove, supply and fix Union 8850SE or approved equivalent door closer	No.	\$ 140.00
8.10	<u>Remove existing and replace with new door lockset, as stated brand or other approved equivalent including other necessary works required.</u>		
8.10.1	Union Knob Lockset	No.	\$ 21.00
8.10.2	Union Double Lockset	No.	\$ 80.00
8.10.3	Union Gower (model No.: 682-24-95)	No.	\$ 29.90
8.10.4	Union Gower (model No.: 682-13-41)	No.	\$ 90.85
8.10.5	Union Safety Lockset	No.	\$ 20.00
8.10.6	Union 2477 mortice sliding lock, rebated	No.	\$ 38.54
8.10.7	Union Door viewer	No.	\$ 8.40
8.10.8	Union butt hinges	No.	\$ 4.00
8.10.9	150mm door's Tow bolt	No.	\$ 5.00
8.10.10	Union 8052 Flush Bolt, 150mm long	No.	\$ 25.20
8.10.11	Union 8052 Flush Bolt, 200mm long	No.	\$ 30.45
8.11	<u>Remove existing, supply and instal; Arhcitectural ironmongery fixed to timber or metal with matching screws</u> <u>Push plates; kicking plates with holes for lockset</u>		
8.11.1	300mm x 200mm x 2mm	No.	\$ 30.00
8.11.2	900mm x 200mm x 2mm	No.	\$ 75.00
8.12	<u>Remove existing, supply and install;</u>		
8.12.1	Union 7400 Door stops or approved equivalent; fixing to walls or floors	No.	\$ 11.00
8.12.2	Rubber Door stops; fixing to walls or floors	No.	\$ 2.50
8.12.3	anodised aluminium crescent lock for sliding window	No.	\$ 3.00
8.12.4	anodised aluminium lever lock for window	No.	\$ 5.00
8.12.5	mild steel dowels; letting into foot of timber frame / metal frame and concrete floor	No.	\$ 1.20
8.13	<u>Remove existing and replace with new accessories to aluminium sliding doors / windows ancillaries / accessories and the likes including other necessary works required</u>		
8.13.1	"RELIANCE " Sliding door lockset , or other approved equivalent	No.	\$ 8.70
8.13.2	Aluminium Door Handles	No.	\$ 43.70
8.13.3	Running Rollers	No.	\$ 5.75
8.13.4	Running Track	No.	\$ 15.00
8.13.5	Hinges	No.	\$ 5.00
8.13.6	Aluminium Strips	m	\$ 5.00
8.13.7	Neoprene Gasket	m	\$ 3.00
8.13.8	Window Lock/Handle	No.	\$ 8.00
9.0	<b><u>METAL WORKS</u></b>		
9.1	<u>General repair to existitng anodised Swing / Sliding / Top hung / Side Hung Doors/Windows and the likes</u> General repair to existing anodised aluminium louvre door / window including making good to damaged items / parts including replacing of all necessary accessories and other fittings as per OIC's instructions	No.	\$ 10.00



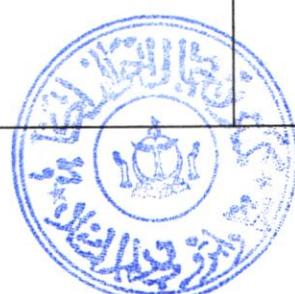
Item No.	Description	Unit	Rate
9.2	<u>Remove existing, supply and install Aluminium alloy windows, doors and screens generally to B.S 4873 complete with all necessary frame, neoprene gaskets, glazing, glazing beads, fixing devices and sealed all round</u>		
9.2.1	anodised aluminium door complete with frame, hinges, lockset and any necessary accessories	m2	\$ 180.00
9.2.2	anodised aluminium door with 6mm thick half glass complete with frame, hinges, lockset and any necessary accessories	m2	\$ 135.00
9.2.3	anodised aluminium louvers door complete with frame, hinges, lockset and any necessary accessories	m2	\$ 190.00
9.3	<u>Remove existing and replace with new Aluminium Louver Door (Swing type) complete with aluminium frame, hinges, handle, lockset, stopper and other necessary works required to match existing</u>		
9.3.1	Generally	m2	\$ 185.00
9.3.2	± 38mm x 700mm x 2100mm	Set	\$ 275.00
9.3.3	Extra over, for reverse printing signage on and including 300mm x 150mm x 6mm thick acrylic base with ±80mm high text (Footlight mT Light)	No.	\$ 9.00
9.3.4	Reverse printing signage on 6mm thick acrylic base, Footlight mT Light font/text, fixing to wall or door, colour and font height/content to OIC approval; Generally	m2	\$ 200.00
9.4	Remove existing, fabricate and install clear and/or tinted glass sliding door with frame including glazing, glazing bead and neoprene gasket c/w lockset and fastener	m2	\$ 90.00
9.5	Remove existing, fabricate and install swing door glazed with 6mm clear and/or tinted glass including glazing bead and neoprene gasket c/w frame, lockset and fastener	m2	\$ 90.00
9.6	Remove existing, supply and install; powder coated aluminium door glazed with 6mm clear glass c/w glazing beads including gaskets, waterproof cement grout all in accordance with manufacturer's detail	m2	\$ 190.00
9.7	repair and fix loose/tilted/misaligned sliding window frames by joining or fastening with rivets including all fittings/accessories and make good work disturbed	No.	\$ 1.00
9.8	<u>Remove existing and replace with new adjustable aluminium naco louvre window frame with clips for 150mm blades, fixing with screws, (glazing measure separately)</u>		
9.8.1	5 blades	Set	\$ 10.50
9.8.2	7 blades	Set	\$ 12.50
9.8.3	8 blades	Set	\$ 14.00
9.9	<u>Remove existing, supply and install; anodised aluminium alloy with frame; glazed with 5mm clear and/or light tinted glass, neoprene gasket and all accessories</u>		
9.9.1	Sliding window	m2	\$ 75.00
9.9.2	Fixed window	m2	\$ 75.00
9.9.3	Top hung	m2	\$ 85.00
9.9.4	Casement window	m2	\$ 85.00
9.10	<u>Remove existing, supply and install; Powder coated aluminium extruded frame infilled with 6mm tinted reflective glass c/w glazing beads including gaskets, waterproof cement grout all in accordance with manufacturer's detail</u>		
9.10.1	Sliding window	m2	\$ 145.00
9.10.2	Fixed window	m2	\$ 145.00
9.10.3	Top hung	m2	\$ 175.00
9.10.4	Casement window	m2	\$ 175.00



Item No.	Description	Unit	Rate
9.11	<u>Powder coated aluminium extruded frame infilled with 6mm tinted reflective glass c/w glazing beads including gaskets, waterproof cement grout all in accordance with manufacturer's detail</u>		
9.11.1	Remove existing, fabricate and install fixed new adonised aluminium louvre panel with 150mm wide fixed louvres every 100mm centres complete with framing	m2	\$ 190.00
9.11.2	Remove existing, supply and install; Powder coated aluminium sun breaker including frame and other accessories	m2	\$ 198.00
9.11.3	Remove existing, fabricate and install Amplimesh aluminium security grille including framing	m2	\$ 161.00
9.12	Remove existing, fabricate and install sliding security grille to door consists of 25mm x 50mm THS frame infilled with 9mm round mS bar c/w frame, track roller and guide, locksets etc	m2	\$ 95.00
9.13	Remove existing, fabricate and install stainless sliding gate consists of 25mm x 50mm RHS frame infilled with 25mm SHS c/w frame, track roller and guide, locksets etc	m2	\$ 105.00
9.14	<u>Remove existing, fabricate and fix new aluminium roller shutter</u>		
9.14.1	including electric motor with wiring and control panel	m2	\$ 450.00
9.14.2	including connection to existing electric motor	m2	\$ 300.00
9.14.3	(manual mechanism type) including all other accessories	m2	\$ 300.00
9.15	Remove existing, fabricate and fix new stainless steel flag pole 8000mm high; consists of 75mm diameter lower-half, 50mm diameter upper-half, 75mm diameter ball, titlable bracket, pulley and all accessories	No.	\$ 1,500.00
9.16	<b><u>Replacement of new Aluminium Channel Curtain and the likes;</u></b>		
9.16.1	Repair existing aluminium channel curtain track comprising pull card, guides, returns, running rollers and other accessories required inclusive refixing to wall	No.	\$ 10.00
9.16.2	<u>Remove existing and replace with new aluminium curtain track complete with pull cord, guides, returns, running rollers, supports and other accessories required including fixing to wall generally</u>	m	\$ 9.40
9.16.3	<u>Remove existing and replace with new aluminium curtain track accessories similar to existing inclusive refixing to its original position</u>		
9.16.3.1	Pully cord	m	\$ 2.00
9.16.3.2	Huides	No.	\$ 3.50
9.16.3.3	Returns	No.	\$ 1.50
9.16.3.4	Rollers	No.	\$ 0.50
9.16.3.5	Pulley	No.	\$ 2.00
9.17	<b><u>Mosquito Netting</u></b>		
9.17.1	<u>Remove existing mosquito netting only and replace with new netting including fixing, installation and painting works where necessary: make good to affected surfaces and remove all debris offsite</u>		
9.17.1.1	Nylon mesh netting	m2	\$ 4.50
9.17.1.2	Aluminium mesh netting	m2	\$ 7.70



Item No.	Description	Unit	Rate
9.17.2	<u>Remove existing mosquito netting and frame and replace with new including fixing, installation and painting works where necessary; all to match existing; make good to affected surfaces and remove all debris offsite</u>		
9.17.2.1	Nylon mesh netting with timber framing	m2	\$ 8.50
9.17.2.2	Aluminium mesh netting with aluminium framing	m2	\$ 13.50
9.18	<b><u>Metal Structures</u></b>		
9.18.1	<u>Removal of existing metal and replace with new mild steel columns, posts, trusses, purlins, rails, braces, ballusters and the like; base plate, blending, welded joints and all fixing accessories; provision of necessary supports;</u>		
9.18.1a	<u>Square hollow section</u>		
9.18.1a.1	25mm x 25mm	m	\$ 4.00
9.18.1a.2	50mm x 50mm	m	\$ 7.00
9.18.1a.3	75mm x 75mm	m	\$ 10.00
9.18.1a.4	100mm x 100mm	m	\$ 15.00
9.18.1b	<u>Rectangular hollow section</u>		
9.18.1b.1	50mm x 75mm	m	\$ 9.00
9.18.1b.2	50mm x 100mm	m	\$ 12.00
9.18.1b.3	75mm x 100mm	m	\$ 13.00
9.18.1b.4	75mm x 125mm	m	\$ 16.00
9.18.1b.5	100mm x 150mm	m	\$ 22.00
8.18.1c	<u>Circular hollow section</u>		
8.18.1c.1	18mm Ø	m	\$ 4.00
8.18.1c.2	25mm Ø	m	\$ 6.00
8.18.1c.3	50mm Ø	m	\$ 11.00
8.18.1c.4	100mm Ø	m	\$ 20.00
9.18.2	<u>Removal of existing metal and replace with new galvanised columns, posts, trusses, purlins, rails, braces, ballusters and the like; base plate, blending, welded joints and all fixing accessories; provision of necessary supports;</u>		
	<u>Circular hollow section</u>		
9.18.2.1	18mm Ø	m	\$ 6.00
9.18.2.2	25mm Ø	m	\$ 9.00
9.18.2.3	50mm Ø	m	\$ 14.00
9.18.2.4	75mm Ø	m	\$ 20.00
9.18.2.5	100mm Ø	m	\$ 23.00
9.18.3	<u>Removal of existing metal and replace with new stainless steel columns, posts, trusses, purlins, rails, braces, ballusters and the like; base plate, blending, welded joints and all fixing accessories; provision of necessary supports;</u>		
	<u>Circular hollow section</u>		
9.18.3.1	18mm Ø	m	\$ 6.00
9.18.3.2	25mm Ø	m	\$ 9.00
9.18.3.3	50mm Ø	m	\$ 14.00
9.18.3.4	75mm Ø	m	\$ 20.00
9.18.3.5	100mm Ø	m	\$ 23.00



Item No.	Description	Unit	Rate
<b>9.19</b>	<b><u>Proprietary gratings, covers and frames</u></b>		
<b>9.19.1</b>	<u>Remove existing, supply and install; fabricate and fix MS drain grating consists of 50mm x 50mm mS angle framing infilled with 9mm mS bar at 38mm centre painted</u>		
<b>9.19.1.1</b>	Not exceeding 200mm wide	m	\$ 20.00
<b>9.19.1.2</b>	Not exceeding 250mm wide	m	\$ 25.00
<b>9.19.1.3</b>	Not exceeding 300mm wide	m	\$ 30.00
<b>9.19.1.4</b>	Not exceeding 330mm wide	m	\$ 33.00
<b>9.19.2</b>	<u>Remove existing, supply and install; fabricate and fix heavy duty MS grating with 75mm x 75mm mS angle framing infilled with 12mm high tensile bar at 40mm centre painted</u>		
<b>9.19.2.1</b>	Not exceeding 200mm wide	m	\$ 40.00
<b>9.19.2.2</b>	Not exceeding 250mm wide	m	\$ 45.00
<b>9.19.2.3</b>	Not exceeding 300mm wide	m	\$ 50.00
<b>9.19.2.4</b>	exceeding 500mm wide	m	\$ 60.00
<b>9.19.3</b>	<u>Remove existing; supply and lay new M.S. grating comprising of 50mm x 10mm thick flat bar as perimeter framing welded with two 50mm x 6mm thick flat hinge; infilled with 50mm x 10mm thick flats at 50mm centre; 50mm x 50mm x 6mm thick angle frame on one side and 100mm x 50mm x 6mm thick angle frame on the other side welded with 16mm diameter high tensile steel pin connecting to hinges; R10hook fillets cast into reinforced concrete drain wall at 300mm centres with one end welded angle frame; including hacking and making good to existing R.C drain wall; complete with approved painting; all to OIC's instructions and approval</u>		
<b>9.19.3.1</b>	Not exceeding 300mm wide drain	m	\$ 111.00
<b>9.19.3.2</b>	generally	m2	\$ 370.00
<b>9.19.4</b>	<u>Remove existing, fabricate and install MS security grille to window consists of 25mm x 25mm SHS frame infilled with:</u>		
<b>9.19.4.1</b>	9mm round bar in diamond pattern spaced 100mm horizontally and 150mm vertically, all joints welded, complete with priming, painting and other necessary works required	m2	\$ 77.50
<b>9.19.4.2</b>	20mm x 4mm flat in brick pattern	m2	\$ 77.50
<b>9.19.5</b>	Remove existing, fabricate and install swing MS security grille door consists of 25mm x 50mm RHS frame infilled with 9mm round mS bar c/w frame, hinges, locksets etc	m2	\$ 95.00
<b>9.19.6</b>	Remove existing, fabricate and install swing type MS securitygrille to door consists of 25mm x 75mm x 3mm hollow section as outer frame, infilled with 9mm round bar in diamond shape pattern spaced 100mm horizontally and 150mm vertically, all joints welded, complete with angle bar frame, lockset, hinges, priming, painting and other necessary works required	m2	\$ 150.00
<b>9.19.7</b>	Remove existing, fabricate and install sliding type MS security grille to door consists of 25mm x 75mm x 3mm hollow section as oter frame, infilled with 9mm round bar in diamond shape pattern spaced 100mm horizontally and 150mm vertically, all joints welded, complete with rails, track, rollers, lockset, hinges. priming, painting and other necessary works required	m2	\$ 200.00
<b>9.19.8</b>	Remove existing, fabricate and install MS collapsible gate including running track, lockset and other necessary accessories	m2	\$ 130.00
<b>9.19.9</b>	Repair and fix loose / tilted / misaligned sliding security grille inlcuding running track by adjusting or tightening existing accessories and fittings or to replace with new and make good work disturbed.	Lot	\$ 10.00



Item No.	Description	Unit	Rate
9.19.10	General repair to existing rubbish chute's door to smooth opening and good working condition including replacement of new botls, welding works, painting works and other necessary works reuquired	No.	\$ 30.00
9.19.11	<u>Remove existing and fabricate and install new double leaf in two equal leaves Aluminium Rubbish door including handle, bolts, hinges, stopper, welding works (where necessary), locksets, painting works, making good to affected surfaces, remove all debris offsite and other necessary works required</u>		
9.19.11.1	1580mm x 720mm	No.	\$ 340.00
9.19.11.2	generally	m2	\$ 300.00
9.19.12	<u>Remove existing and fabricate and install new stainless steel Rubbish Chute's Door including handle, bolts, hinges, stopper, welding works (where necessary), locksets, painting works, making good to affected surfaces, remove all debris offsite and other necessary works required</u> generally	No.	\$ 80.00
9.19.13	Remove existing and fabricate and install new heavy duty stainless steel hinges, welded to door and frame, all to OIC approval	m	\$ 30.00
9.20	To hack and form shallow scupper drain 100mm - 150mm wide including tiling if necessary and all necessary works	m	\$ 10.00
9.21	<b><u>Remove existing, supply and install the following; Fabricate and fix new metal handrail 1100mm high; complete with welded joints, plates, covering plates, botls, cast into concrete; make good works disturbed;</u></b>		
9.21.1	<u>mild steel handrail consists of 75mm x 50mm x top rail and bottom rail and post at 2000mm centre with 9mm x 9mm solid mS baluster at 100mm c/c</u>		
9.21.1.1	Corridor	m	\$ 60.00
9.21.1.2	Staircase	m	\$ 62.00
9.21.2	<u>Stainless steel (Gradae 316) handrail consists of 50mm top rail and post at 200mm centre and 38mm bottom rail infilled with 18mm baluster at 100mm centre</u>		
9.21.2.1	Corridor	m	\$ 140.00
9.21.2.2	Staircase	m	\$ 142.00
9.21.3	<u>Galvanised iron handrail consists of 50mm x 25mm top rail and bottom rail and post at 2000mm centre with 9mm x 9mm solid mS baluster at 100mm c/c</u>		
9.21.3.1	Corridor	m	\$ 80.00
9.21.3.2	Staircase	m	\$ 82.00
9.21.4	Repair and fix loose/tilted/misaligned/shaky handrails or posts by tightening existing with new additional posts, balustrade, reinforcement complete with welded joints, plates, covering plates, bolts, cast into concrete and all necessary works and make good works disturbed	No.	\$ 20.00
9.22	<u>Remove, supply and install metal plate cover and all necessary works and make good works disturbed</u>		
9.22.1	mild steel	m2	\$ 8.00
9.22.2	aluminium	m2	\$ 12.00
9.22.3	stainless steel	m2	\$ 16.00



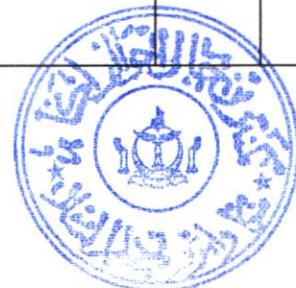
Item No.	Description	Unit	Rate
9.23	<u>Remove, supply and install mild steel 'L' angle bar and all necessary works and make good works disturbed</u>		
9.23.1	25mm / 25mm x 3mm thick	m	\$ 2.10
9.23.2	40mm / 40mm x 5mm thick	m	\$ 4.50
9.23.3	50mm / 50mm x 5mm thick	m	\$ 7.80
10.0	<b><u>PLASTERER, FLOOR AND WALL FINISHES</u></b>		
10.1	<b><u>In situ Finishes</u></b>		
	<u>Cement and sand screed (1:3 mix) to receive finishes</u>		
10.1.1	13mm thick to walls	m2	\$ 6.50
10.1.2	25mm thick to concrete floor, walls etc; laid to fall if required	m2	\$ 8.00
10.1.3	38mm thick to concrete floor laid to fall	m2	\$ 11.00
10.2	<b><u>Removal &amp; Laying/Relaying Existing/New Tile Finishes</u></b>		
10.2.1	<u>Carefully remove existing tile finishes, clean and remove mortar on back of existing tile surface / finishes; set aside for reuse to new location and remove all debris offsite</u>		
10.2.1.1	wall/ floor	m2	\$ 3.50
10.2.1.2	nosing/skirting	m2	\$ 1.00
10.2.2	<u>Relay existing tiles to new location bedded on Nicobond CT300 or other approved equivalent adhesive on and including 20mm thick cement and sand (1:3 mix) screed; with 6mm joints / similar to existing; grouting and pointing in Nicobond tiler's grout; including general cleaning and polishing upon completion</u>		
10.2.2.1	wall/ floor	m2	\$ 15.00
10.2.2.2	nosing/skirting	m	\$ 2.00
10.2.3	<u>Supply and install new tiles to match existing or to O.I.C's instructions and approval; bedded on Nicobond CT300 or other approved equivalent adhesive on and including 20mm thick cement and sand (1:3 mix) screed; with 6mm joints / similar to existing; grouting and pointing in Nicobond tiler's grout; including general cleaning and polishing upon completion</u>		
10.2.3.1	Cearmic tiles	m2	\$ 25.00
10.2.3.2	Homogeneous tiles	m2	\$ 46.00
10.2.3.3	Homogeneous Polished tiles	m2	\$ 72.00
10.2.3.4	Homogeneous Rock Finish tiles	m2	\$ 47.00
10.2.3.5	nosing	m	\$ 4.00
10.2.3.6	100mm skirting	m	\$ 4.00
10.3	<b><u>Carpet Floor Finishes</u></b>		
10.3.1	<u>Supply and install carpet wall to wall laid on complete prepared screed/ rubber underlay using appropriate adhesive, joint carefully, matching edging c/w aluminium edging strip to door area</u>		
10.3.1.1	5mm	m2	\$ 30.00
10.3.1.2	7mm	m2	\$ 38.00
10.3.1.3	8.2mm	m2	\$ 90.00



Item No.	Description	Unit	Rate
10.3.2	<u>Supply and install carpet tile laid on prepared screed/rubber underlay using appropriate adhesive, joint carefully, matching edging c/w aluminium edging strip to door area</u>		
10.3.2.1	plain	pcs	\$ 4.00
10.3.2.2	pattern	pcs	\$ 6.00
10.3.2.3	special	pcs	\$ 9.00
10.3.2.4	plain	m2	\$ 39.00
10.3.2.5	pattern	m2	\$ 63.00
10.3.2.6	special	m2	\$ 99.00
10.4	<b><u>Vinyl Floor Finishes</u></b> Supply and install Vinyl floor finishes on complete prepared screed/ rubber underlay using appropriate adhesive, joint carefully, matching edging c/w aluminium edging strip to door area	m2	\$ 40.00
10.5	<b><u>SPC Floor Finishes</u></b>  <u>Supply and install SPC floor finishes on complete prepared screed/ rubber underlay using appropriate adhesive, joint carefully, matching edging c/w aluminium edging strip to door area</u>		
10.5.1	5mm	m2	\$ 60.00
10.5.2	8mm	m2	\$ 80.00
10.6	<b><u>Timber Laminated Floor Finishes</u></b> Supply and install Timber Laminated floor finishes prepared screed using appropriate adhesive, complete with necessary joining works including all other necessary works required as instructed by the S.O or O.I.C	m2	\$ 40.00
10.7	<b><u>Parquet Flooring Finishes</u></b>		
10.7.1	Remove and hack all existing defective parquest finishes including existing mastic bedding exposing bare concrete using approved hand and/or low-powered tools; inclusive of disposing hacedked materials and/or finishes off-site to approved dumping area; cleaning and preparing exposed surfaces ready for re-laying new materials and/or floor finishes.	m2	\$ 10.00
10.7.2	Supply, deliver and lay new 12mm thick teak patterned parquet flooring to BS4050; square edged; inclusive of fixing and bedding in mastic; sanding to smooth ready to receive varnishing/timber tone; as per OIC approval and satisfaction.	m2	\$ 40.00
10.8	<b><u>Polypropylene Sports Floor Finishes</u></b>		
10.8.1	Supply and install new polypropylene sports flooring surfaces approx. size: 25cm x 25cm x 12.7mm or approved equivalent including painting, install strictly in accordance to manufacturer's recommendation (Please state Alternative Brand: .....)	m2	\$ 150.00
10.8.2	Remove existing; supply and lay Covacrete or any technically approved equivalent which consists of preparation of existing surface, priming the surface, application of base coat (Lokcote CC & Resurfacing Powder) of estimated 3mm - 5mm thickness, placing of the selected pattern stencil design, application of the top coat (selected colour) of recommended thickness (2mm - 4mm), removal of stencil or tape, and finished with lustre seal sealer all done in accordance to manufacturer's specification.	m2	\$ 32.00



Item No.	Description	Unit	Rate
10.9	Supply and install 5mm rubber underlay to receive finishes on prepared screed using appropriate adhesive and apply tape along the full length of each joint carefully.	m2	\$ 8.00
10.10	<b>External Wall Cladding</b> Remove existing, supply and fix into place new Alucore type of external cladding board or any technically approved equivalent including C-channel lightweight steel frame, corrosion resistant screw, metal angle, sealant at all joints and install as per manufacturer's recommendations.	m2	\$ 200.00
10.11	<b>Wall Finishes</b>		
10.11.1	Supply and install WPC wall finishes using appropriate adhesive, complete with necessary joining works including all other necessary works required as instructed by the S.O or O.I.C	m2	\$ 90.00
10.11.2	Fabricate, supply and install new acrylic pattern wall finishes complete with all necessary accessories to be approved by S.O or O.I.C's instructions and requirement.	m2	\$ 260.00
11.0	<b>RAINWATER GOODS</b>		
11.1	<u>Remove existing, supply and install; UPVC rainwater downpipe with solvent welded joints complete with bends, branches; bracketed off walls with pipe clips and any necessary bends, branches, shoes etc.</u>		
11.1.1	100mm diameter	m	\$ 13.00
11.1.2	150mm diameter	m	\$ 20.00
11.2	<u>Remove existing, supply and install gutter outlet with spigots for pipe</u>		
11.2.1	100mm diameter pipe	No.	\$ 40.95
11.2.2	150mm diameter pipe	No.	\$ 61.95
11.3	<u>Hack existing concrete or cut into metal gutter and cast into concrete including all necessary formwork</u>		
11.3.1	100mm diameter	m	\$ 15.00
11.3.2	150mm diameter	m	\$ 22.00
11.4	Repair to leaking; metal roof; UPVC gutter; metal gutter with sealant to all bolt heads and leaking joints/gap and replacing/refixing existing ridge capping and tightening all roof connection and apply CPRU approved waterproofing coatings to surfaces of roof/internal of gutter.	m2	\$ 50.00
11.5	Remove existing damaged UPVC or metal gutter, downpipes, etc. and dispose offsite and prepare existing roof structure to receive new finishing.	m	\$ 3.00
11.6	Remove and replace with new UPVC gutter similar to existing and/or as in accordance with O.I.C's instructions. Fixing on and including galvanised steel brackets and make good to affected surfaces	m	\$ 29.00
11.7	Remove and replace with new metal gutter similar to existing and / or as in accordance with OIC's instructions. Fixing on and including galvanised steel brackets and make good to affected surfaces	m	\$ 35.00



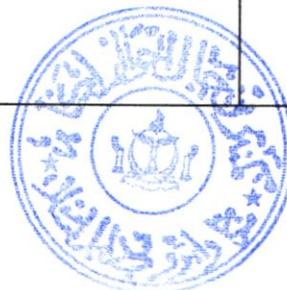
Item No.	Description	Unit	Rate
<b>12.0</b>	<b><u>SANITARY FITTINGS</u></b>		
<b>12.1</b>	<b><u>Demolition / Remove existing sanitary fittings</u></b> <u>To take out and remove the existing sanitary fittings complete with all brackets, hangers, accessories, etc. Rate shall include provisions for temporary disconnection of existing hot and cold water and soil and waste pipes and to seal off temporarily with appropriate plug / closer. Rate shall also include seal off any opening temporarily so as to avoid blockages, to make good the affected area to match existing and prepare to receive new sanitary fittings and to OIC's approval and satisfaction</u>		
12.1.1	wash basins	No.	\$ 12.00
12.1.2	Vanity wash basins including hacking out and removing off reinforced concrete counters, walls, etc.	No.	\$ 35.00
12.1.3	W.C suites complete with cistern	No.	\$ 35.00
12.1.4	Squatting closet type including hacking and removing concrete plinths	No.	\$ 35.00
12.1.5	Long bath including hacking out and removing concrete plinths / shower mixer	No.	\$ 35.00
12.1.6	Shower trays	No.	\$ 35.00
12.1.7	Concrete water usage	No.	\$ 23.00
<b>12.2</b>	<b><u>Remove &amp; set aside for re-use</u></b> <u>To take out, remove and set aside for re-use of existing sanitary fittings and to reinstall including reassembl and rejoining together with new plugging and screwing and / or building new screws, hangers, brackets, clips and any necessary fittings and connector's to wall and soffits, and jointing to existing hot and cold water or soil and waste pipes. Rate shall include provision for temporary disconnection of existing hot and cold water and soil wate pipes and to seal off any opening temporarily with appropriate plug / closer. Rate shall aslo include to seal off any opening temporarily so as to avoid blockages, to make good the affected area to match existing, to dispose debris offsite to contractor's own dump area and to OIC's approval and satisfaction</u>		
12.2.1	wash basins	No.	\$ 23.00
12.2.2	Vanity wash basins including hacking out and removing off reinforced concrete counters, walls, etc.	No.	\$ 46.00
12.2.3	W.C suites complete with cistern	No.	\$ 46.00
12.2.4	Squatting closet type including hacking and removing concrete plinths	No.	\$ 46.00
12.2.5	Long bath including hacking out and removing concrete plinths / shower mixer	No.	\$ 35.00
12.2.6	Shower trays	No.	\$ 30.00
12.3	Remove existing stainless steel sink unit including hacking out concrete bench, application of silicone sealant and make good disturbed	No.	\$ 30.00
12.4	To supply and install new stainless steel sink unit including hacking out concrete bench, application of silicone sealant and make good and including assembling and jointing together, plugging and screwing and / or building in screws, hangers, brackets, clips and pointing all around with mastic or silicone sealant, etc. to wall and soffits and jointing to existing hot and cold water and osil and waste pipes with all new necessary accessories, connectors and fittings	No.	\$ 173.00
12.5	<u>General repair to sanitary fittings and the likes</u> Refix any loose sanitary accessories such as wash basins, mirrors, brackets, etc.	No.	\$ 5.00



Item No.	Description	Unit	Rate
12.6	<u>To supply and install new sanitary fittings, brand as stated or other approved equivalent, including assembling and jointing together, plugging and screwing and / or building in screws, hangers, brackets, clips and pointing all round with mastic or silicone sealent, etc. to wall and soffits and jointing to existing hot and cold water and soil and waste pipes with all the new necessary accessories, connectors and fittings</u>		
12.6.1	<u>move existing and replace with new Long Bath Tub "Armitage Shanks" or any brand approved by the OIC / S.O including all necessary tiling works waste and water supply pipe connection</u> White	No.	\$ 296.00
12.6.2	<u>Take out existing and replace with new 800mm x 800mm fiber glass shower tray</u> White	No.	\$ 259.00
12.6.3	<u>Wash basins; vitreous china, wall hung with fixing brackets, 15mm trap waste, plug, chain and bold stay</u> White	Set	\$ 120.00
12.6.4	<u>Vanity wash basins; above counter typr, citreous china; concealed fixing brackets; top 1¼" bead chain, waste and plug; 80mm slotted tail; bolt stay; 1¼" plastic / chrome plated bottle trap with 75mm seal; fixing clips and bolts; and including to construct / making good on reinforced concrete vanity counters where applicable (tiling works measured seperately)</u> White	Set	\$ 130.00
12.6.5	American Standard Kimera TF-0996 / 0792 Wash Basin : 611mm x 504mm x 830mm complete with pedestal or approved equivalent	Set	\$ 140.00
12.6.6	Remove existing and replace with new plug & chain to wash basin / sink to match existing	Set	\$ 5.00
12.6.7	<u>Remove exsiting and replace with new stainless steel laundry basin inckuding applying silicone sealent and other necessary works required</u>		
12.6.7.1	Single bowl with single drainer	Set	\$ 100.00
12.6.7.2	Single bowl with double drainer	Set	\$ 150.00
12.6.7.3	Double bowl with single drainer	Set	\$ 150.00
12.6.7.4	Double bowl with double drainer	Set	\$ 188.00
12.6.8	<u>Vanity top deep reinforced with 2 layers of BRC A7 with oval opening and tiles all exposed surfaces with homogeneous tiles finish to;</u> 100mm thick x 900mm long x 600mm deep for 1 no. of sink	No.	\$ 200.00
12.6.9	<u>Remove the existing and fix new wash basin wall hung with fixing brackets; trap, waste, plug and other necessary items</u>		
12.6.9.1	Oval-shaped "White Vitreous China"	No.	\$ 80.00
12.6.9.2	Wash Basin, 400mm x 550mm - White	No.	\$ 90.00
12.6.9.3	Wash Basin, 360mm x 450mm - White	No.	\$ 80.00
12.6.10	Cast iron brackets including fixing to the tile / concrete wall	No.	\$ 15.00
12.6.11	Ditto but to remove and replace Wash basin including tap, cast iron brackets and all fittings	No.	\$ 180.00
12.6.12	Ditto but to remove and replace cast iron bracket for wash hand basin and necessary fittings only	No.	\$ 18.00



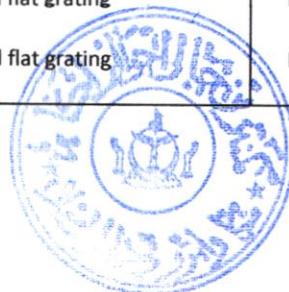
Item No.	Description	Unit	Rate
12.6.13	Remove existing water closet / cistern, complete with all necessary works and make good disturbed	No.	\$ 25.00
12.6.14	<u>Supply and install new American Standard complete with all necessary accessories, tank fittings, brackets, flush pipes and jointing to pipe work with all necessary connectors and make good</u>		
12.6.14.1	American Standard: Squatting type or other technically approved equivalent (Vitreous China high / low - White)	No.	\$ 290.00
12.6.14.2	American Standard or other approved equivalent (Vitreous China high / low - White)	No.	\$ 300.00
12.6.14.3	American Standard close coupled or other technically approved equivalent (Vitreous China - White)	No.	\$ 300.00
12.6.15	<u>Water Closet Cistern Tank with complete necessary fittings</u>		
12.6.15.1	UPVC	No.	\$ 40.00
12.6.15.2	Vitreous China or other technically approved equivalent	No.	\$ 80.00
12.6.16	<u>Cistern Cover</u>		
12.6.16.1	Plain Vitreous China	No.	\$ 48.00
12.6.16.2	Plain UPVC	No.	\$ 15.00
12.6.16.3	With dual flush push mechanism	No.	\$ 60.00
12.6.17	<u>Water Closet Bowl</u>		
12.6.17.1	European Type	No.	\$ 200.00
12.6.17.2	Asian Squatting Type	No.	\$ 150.00
12.6.17.3	Ditto but to replace Single Bowl Toilet	No.	\$ 134.00
12.6.17.4	Ditto but to replace Toilet Flush Valve w/ vacuum breaker	No.	\$ 324.00
12.6.17.5	Ditto but to replace Toilet Inlet Spud	No.	\$ 40.00
12.6.17.6	Ditto but to replace Squatting Toilet (Top Inlet)	No.	\$ 150.00
12.6.17.7	Ditto but replace Squatting toilet flush valve w/ vacuum breaker	No.	\$ 380.00
12.6.18	<u>Bath Room accessories</u>		
12.6.18.1	Ditto but 500mm x 150mm glass shelving complete with chromium plated brackets	No.	\$ 27.00
12.6.18.2	Ditto but 150mm x 150mm soap holder, toilet roll holder or approved equivalent	No.	\$ 45.00
12.6.18.3	Ditto but 610mm long towel rail with brackets (Chrome plated) or approved equivalent	No.	\$ 45.00
12.6.19	<u>Concrete counter (Vanity counter)</u> Ditto but remove and to construct 100mm thick reinforced concrete vanity counter complete with homogenous tile to expose area, inside and base, 1 rack, 1 layer BRC No. 65, approx. size 2000mm (L) x 600mm (W) x 750mm (H) aluminium sliding window	m	\$ 200.00
12.6.20	<u>Pedestal pan seat and cover</u>		
12.6.20.1	Ordinary (White)	No.	\$ 15.00
12.6.20.2	Close - coupled heavy duty (White)	No.	\$ 40.00
12.6.21	<u>Low level W.C suites vitreous china pedestal pan complete with 6/3 litre dual flush including assembling and jointing together, plugging and screwing or building in screws, hangers, brackets, etc. and jointing to pipework with all necessary connectors and make good to affected surfaces, all to match existing</u> White	Set	\$ 300.00
12.6.22	<u>Water closet cistern, low level vitreous china pedestal pan including other necessary accessories and works required</u> White	Set	\$ 120.00



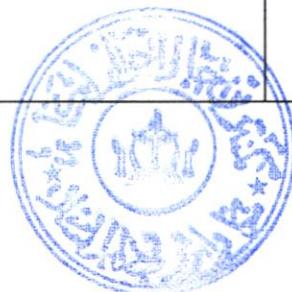
Item No.	Description	Unit	Rate
12.6.23	Remove existing and replace with new plastic cistern including other necessary accessories and works required	Set	\$ 50.00
12.6.24	Remove existing and replace with new tank fitting to W.C cistern	No.	\$ 50.00
12.6.25	Ditto with new 1½" Ø UPVC flush pipe including connection to cistern and pan, brackets fixing to wall	No.	\$ 12.00
12.6.26	Ditto with new rubber joint connector for W.C inlet flush pipe	No.	\$ 12.00
12.6.27	Remove and connect new expansion bolt for W.C cistern including drilling holes on concrete wall	No.	\$ 15.00
12.6.28	<u>Remove existing and replace new soap / sponge holder to match existing or other pproved equivalent</u>		
12.6.28.1	American Standard - 150mm x 150mm soap holder	No.	\$ 20.00
12.6.28.2	American Standard - 250mm x 150mm soap and sponge holder	No.	\$ 25.00
12.6.29	<u>Remove existing and replace with new Single lever shower mixer, including all accessories and necessary works and make good all work disturbed in material to match existing American Standard or equivalent</u>	No.	\$ 140.00
12.6.30	<u>Remove existing and replace with new ½" Ø Bath mixer as stated brand or other approved equivalent, complete with telephone shower, 1200mm flexible hose including all necessary accessories, piping, threading, connections and plumbing works required, all to match existing American Standard or equivalent</u>	No.	\$ 75.00
12.6.31	<u>Remove existing and replace the following item including sliding handle and all necessary accessories, threading and connections works required, all to match existing</u>		
12.6.31.1	New Hand / Telephone shower complete with 1200mm flexible hose for bath mixer	No.	\$ 58.00
12.6.31.2	New Hand / Telephone shower	No.	\$ 29.00
12.6.31.3	New 4" Ø shower rose / head	No.	\$ 31.00
12.6.31.4	New Hand Spray only (without flexible hose)	No.	\$ 9.00
12.6.32	<u>Remove existing and replace with new;</u>		
12.6.32.1	½" Ø x 1200mm long flexible hose	No.	\$ 9.00
12.6.32.2	½" Ø x 1200mm long stainless steel hose	No.	\$ 12.00
12.6.32.3	½" Ø x 1200mm long stainless steel hose, Nozzle type	No.	\$ 15.00
12.6.32.4	Stainless steel towel rail with brackets (length 900mm - 1200mm)	No.	\$ 45.00
12.6.33	<b>Mirror</b>		
12.6.33.1	Remove existing mirror including aluminium framing of any sizes	No.	\$ 10.00
12.6.33.2	Remove existing and replace with new wall mirror consists of 6mm thick polished plate glass mirror bonded to 13mm x 13mm WBP quality backing, 13mm x 13mm satin anodised aluminium framing surround, plugged and screwed to wall	m2	\$ 80.00
12.6.34	<b>Anal Spray &amp; Nozzle</b>		
12.6.34.1	Remove existing; replace and fix new chrome-plated anal spray including hose and lever type tap. To fix CPRU approved or any other approved equivalent	No.	\$ 40.00



Item No.	Description	Unit	Rate
<b>12.6.34.2</b>	<u>Remove existing, replace and fix the new following item, brand to follow existing or any other approved equivalent</u>		
<b>12.6.34.2a</b>	UPVC anal spray including hose and lever type tap	No.	\$ 35.00
<b>12.6.34.2b</b>	Anal nozzle hose and lever type tap	No.	\$ 30.00
<b>12.6.34.2c</b>	Single lever bath & shower	No.	\$ 193.00
<b>12.6.35</b>	<b><u>Stainless Steel / Aluminium Kitchen Sink</u></b>		
<b>12.6.35.1</b>	<u>Remove the existing and fix including application of silicone sealant and hacking out concrete bench and make good disturbed</u>		
<b>12.6.35.1a</b>	Single bowl drainer	No.	\$ 110.00
<b>12.6.35.1b</b>	Double bowl drainer	No.	\$ 190.00
<b>12.6.35.2</b>	Ditto but remove and replace single bowl drainer approx. 1200mm long, including single lever swivel spout sink mixer goose neck tap and all fittings	No.	\$ 260.00
<b>12.6.35.3</b>	Ditto but remove and replace double bowl drainer approx. 1800mm long, including single lever swivel spout sink mixer goose neck tap and all fittings	No.	\$ 450.00
<b>12.6.35.4</b>	Ditto but remove and replace single bowl drainer S/S Sink (approx. 765mm 480mm x 180mm, including 3½ basket strainer waste S/S, UPVC bottle trap, ½" x ½" angle stop cock (Tringle) and all fittings	No.	\$ 360.00
<b>12.7</b>	<b><u>Sundries</u></b>		
	<u>Remove the existing and fix new including short waste, plug, chain and stay and all necessary hacking out concrete floor tile and make good disturbed</u>		
<b>12.7.1</b>	<u>Bottle Trap / Tubular / P Trap</u>		
<b>12.7.1.1</b>	UPVC - 38mm diameter bottle trap	No.	\$ 12.00
<b>12.7.1.2</b>	UPVC - 45mm diameter bottle trap	No.	\$ 14.00
<b>12.7.1.3</b>	UPVC - 50mm diameter Tubular "P" trap	No.	\$ 20.00
<b>12.7.1.4</b>	UPVC - 75mm diameter "P" trap with rodding eyes	No.	\$ 23.00
<b>12.7.1.5</b>	HDPE bottle trap	No.	\$ 25.00
<b>12.7.1.6</b>	Stainless steel - 50mm diameter "P" trap	No.	\$ 50.00
<b>12.7.2</b>	Ditto but remove and replace "SHOWY" but plastic bottle trap various size	No.	\$ 10.50
<b>12.7.3</b>	<u>Remove the existing and replace new with UPVC gully trap with rodding access to B.S 4660 with metal removable flat grating cast into concrete</u>		
<b>12.7.3.1</b>	100mm diameter	No.	\$ 80.00
<b>12.7.3.2</b>	150mm diameter	No.	\$ 100.00
<b>12.7.4</b>	<u>Remove the existing and replace new with UPVC floor traps with rodding access to B.S 4660 with all necessary connectors and jointing to pipes</u>		
<b>12.7.4.1</b>	UPVC floor drain trap grating	No.	\$ 10.00
<b>12.7.4.2</b>	150mm x 150mm UPVC hinge floor grating	No.	\$ 15.00
<b>12.7.4.3</b>	> 150mm x 150mm UPVC hinge floor grating	No.	\$ 20.00
<b>12.7.5</b>	<u>Stainless steel floor drain trap grating</u>		
<b>12.7.5.1</b>	100mm diameter stainless steel floor grating	No.	\$ 25.00
<b>12.7.5.2</b>	150mm diameter stainless steel floor grating	No.	\$ 30.00
<b>12.7.5.3</b>	Ditto but to remove and replace 32mm (1¼") diameter Chromium plated flat grating	No.	\$ 5.00
<b>12.7.5.4</b>	Ditto but to remove and replace 40mm (1½") diameter Chromium plated flat grating	No.	\$ 6.00



Item No.	Description	Unit	Rate
12.7.5.5	Ditto but to remove and replace 50mm (2") diameter Chromium plated flat grating	No.	\$ 5.00
12.7.5.6	Ditto but to remove and replace 75mm (3") diameter Chromium plated flat grating	No.	\$ 6.00
12.7.5.7	Ditto but to remove and replace 100mm (4") diameter Chromium plated flat grating	No.	\$ 8.00
12.7.5.8	Ditto but to remove and replace 100mm SHOWY 7044 (4") diameter Chromium plated flat grating	No.	\$ 34.00
12.7.5.9	Ditto but to remove and replace gully trap cover for 150mm x 150mm to 300mm x 300mm (M.S)	No.	\$ 30.00
12.7.5.10	<u>Ditto but to remove and replace gully trap size;</u>		
12.7.5.10a	200mm x 200mm	No.	\$ 45.00
12.7.5.10b	300mm x 300mm	No.	\$ 63.00
12.7.5.11	<u>Construction of gully traps in accordance with PWD's Standard Drawing No. SD/3/90 and including details, cast iron / mild steel grating and frame for 50 / 100mm diameter or both combined outlet, jointing to UPVC pipes, setting on and surrounding with concrete including excavation, painting, etc.</u>		
12.7.5.11a	ditto but to construct new gully trap including cover, excavation and concreting for 150mm x 150mm to 300mm x 300mm x 450mm depth	No.	\$ 135.00
12.7.5.11b	Coated cast iron rectangular single seal cover and frame; in accordance to BS-EN 124, sealing cover in grease and fine sand	No.	\$ 250.00
12.7.5.12	<u>Coated cast iron rectangular single seal cover and frame; light duty; B.S 497 Grade C; weighing 38kg; bedding frame in cement mortar (1:3); sealing cover in grease and fine sand</u> 695mm x 545mm x 45mm overall	No.	\$ 130.00
12.7.5.13	<u>Coated cast iron rectangular single seal cover and frame; medium duty; B.S 497 Grade B; weighing 142kg; bedding frame in cement mortar (1:3); sealing cover in grease and fine sand</u> 670mm x 670mm x 75mm overall	No.	\$ 217.00
12.7.5.16	<u>Coated cast iron rectangular single seal cover and frame; high duty; B.S 497 Grade B; weighing 210kg; bedding frame in cement mortar (1:3); sealing cover in grease and fine sand</u> 600mm x 450mm overall	No.	\$ 272.00
13.0	<b><u>PLUMBING WORKS</u></b>		
13.1	<u>Laying in the ground, including all necessary excavation average 300mm deep and hacking out concrete floor tile / slab where necessary</u>		
13.1.1	32mm diameter UPVC B.S 4514 solvent welded joints	m	\$ 20.00
13.1.2	50mm diameter UPVC B.S 4514 solvent welded joints	m	\$ 25.00
13.2	<u>Laying in the ground, including all necessary excavation average 450mm deep and hacking out concrete floor tile / slab where necessary</u>		
13.2.1	75mm diameter UPVC B.S 4514 solvent welded joints	m	\$ 28.00
13.2.2	100mm diameter UPVC B.S 4514 with ring seal or solvent welded joints	m	\$ 35.00



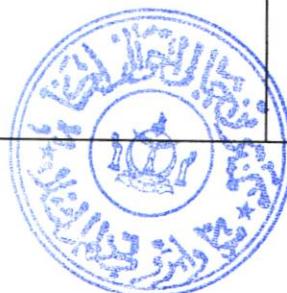
Item No.	Description	Unit	Rate
<b>13.3</b>	<u>UPVC Soil Pipe B.S 4660 (Underground)</u>		
13.3.1	Ditto but to replace 110mm diameter ( 4" ) including excavation and backfill approx. (1000m)	m	\$ 45.00
13.3.2	Ditto but to replace 160mm diameter ( 6" ) including excavation and backfill approx. (1000m)	m	\$ 45.00
<b>13.4</b>	<u>UPVC soil, waste and vent pipes to B.S 4514, solvent welded joints including holder bats / hinges</u>		
13.4.1	32mm diameter pipes	m	\$ 6.00
13.4.2	50mm diameter pipes	m	\$ 8.00
13.4.3	75mm diameter pipes	m	\$ 12.00
13.4.4	100mm diameter pipes	m	\$ 15.00
<b>13.5</b>	<u>Extra over for all necessary fittings, sockets connectors, reducers, plugs, elbows, tees, junctions and other similar pipe fittings complete with access / inspection openings</u>		
13.5.1	75mm diameter UPVC B.S 4514 solvent welded joints	No.	\$ 5.00
13.5.2	100mm diameter UPVC B.S 4514 solvent welded joints	No.	\$ 7.00
<b>13.6</b>	<b><u>Cold Water Installation</u></b>		
	<b><u>Remove and replace with new pipe cast / chased into concrete or brickwall or bracketed off walls or soffits with pipe clips</u></b>		
<b>13.6.1</b>	<u>Stainless Steel Pipes to B.S 4127 fixed with stainless steel screwed and socketed joints fixing with and including suitable pipe clips as necessary</u>		
13.6.1.1	15mm diameter	m	\$ 14.00
13.6.1.2	22mm diameter	m	\$ 19.00
13.6.1.3	28mm diameter	m	\$ 25.00
13.6.1.4	35mm diameter	m	\$ 35.00
13.6.1.5	54mm diameter	m	\$ 50.00
<b>13.6.2</b>	<u>Unplasticised PVC pipes; B.S 3505 Class "E" solvent welded joints and fittings to B.S 4346 Pipe cast / chased into concrete or brickwall or bracketed off walls or soffits with pipe clips</u>		
13.6.2.1	12mm diameter pipes	m	\$ 7.00
13.6.2.2	120mm diameter pipes	m	\$ 9.00
13.6.2.3	25mm diameter pipes	m	\$ 12.00
13.6.2.4	32mm diameter pipes	m	\$ 16.00
13.6.2.5	40mm diameter pipes	m	\$ 20.00
13.6.2.6	50mm diameter pipes	m	\$ 25.00
<b>13.6.3</b>	<u>Remove existing pipe and replace with new UPVC pipe including fittings to B.S 4514 to wall / floor</u>		
13.6.3.1	32mm diameter main soil, waste and vent pipes	m	\$ 6.00
13.6.3.2	50mm diameter main soil, waste, vent and overflow pipes	m	\$ 8.00
13.6.3.3	75mm diameter main soil, waste, vent and overflow pipes	m	\$ 12.00
13.6.3.4	100mm diameter main soil, waste, vent and overflow pipes	m	\$ 18.00
13.6.3.5	≥ 150mm diameter overflow pipes	m	\$ 22.00



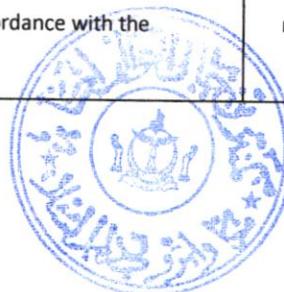
Item No.	Description	Unit	Rate
13.7	<b><u>Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, brush and other similar pipe fittings;</u></b>		
13.7.1	<u>Copper / Stainless steel compression joints</u>		
13.7.1.1	15mm diameter	No.	\$ 20.00
13.7.1.2	22mm diameter	No.	\$ 24.00
13.7.1.3	28mm diameter	No.	\$ 30.00
13.7.1.4	≥ 50mm diameter pipes	No.	\$ 65.00
13.7.2	<u>Brass compression joints</u>		
13.7.2.1	15mm diameter	No.	\$ 14.00
13.7.2.2	22mm diameter	No.	\$ 16.00
13.7.2.3	28mm diameter	No.	\$ 20.00
13.7.2.4	≥ 50mm diameter pipes	No.	\$ 55.00
13.7.3	<u>UPVC compression joints</u>		
13.7.3.1	15mm diameter	No.	\$ 10.00
13.7.3.2	22mm diameter	No.	\$ 12.00
13.7.3.3	28mm diameter	No.	\$ 15.00
13.7.3.4	≥ 50mm diameter pipes	No.	\$ 45.00
13.8	<b><u>MDPE pipe to ISO 4427 / DIN 8074/8075 / mS 1058 Class PN 12.5 (12.5mPa) or other equal and approved higher pipe; fittings and joints to be compression type;</u></b>		
13.8.1	<u>Pipe cast / chased into concrete or brickwall or bracketed off walls or soffits with pipe clips</u>		
13.8.1.1	20mm outer diameter pipes	m	\$ 15.00
13.8.1.2	25mm outer diameter pipes	m	\$ 16.00
13.8.1.3	65mm outer diameter pipes	m	\$ 25.00
13.8.2	<u>Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar fittings;</u> > 63mm outer diameter pipes	No.	\$ 70.00
13.9	<b><u>MDPE pipe to ISO 4427 / DIN 8074/8075 / MS 1058 Class PN 12.5 (12.5mPa) or other equal and approved higher pipe; fittings and joints to be butt fusion / compression type;</u></b>		
13.9.1	<u>Laying in the ground</u>		
13.9.1.1	110mm outer diameter pipes	m	\$ 50.00
13.9.1.2	125mm outer diameter pipes	m	\$ 60.00
13.9.2	<u>Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar fittings;</u> > 110mm outer diameter pipes	No.	\$ 110.00
13.10	<b><u>Ductile iron pipe</u></b>		
	<u>Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar fittings;</u>		
13.10.1	100mm	m	\$ 80.00
13.10.2	150mm	m	\$ 100.00
13.10.3	200mm	m	\$ 120.00



Item No.	Description	Unit	Rate
13.11	<b><u>Remove existing, supply and install; Insulated Copper pipes to B.S 2871, compression joints and fittings to B.S 864</u></b>		
	<u>Pipes cast / chased into concrete or brickwall or bracketed off walls or soffits with pipe clips</u>		
13.11.1	15mm diameter pipes	m	\$ 15.00
13.11.2	22mm diameter pipes	m	\$ 20.00
13.11.3	28mm diameter pipes	m	\$ 26.00
14.0	<b><u>GLAZING</u></b>		
14.1	<b><u>Remove existing, supply and install new glazing complete with fittings / accessories and all necessary works to existing frame;</u></b>		
14.1.1	<u>Clear sheet glass to B.S 952</u>		
14.1.1.1	6mm thick Glaze to timber with timber breads	m2	\$ 45.00
14.1.1.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 39.00
14.1.2	<u>Light tinted sheet glass to B.S 952</u>		
14.1.2.1	6mm thick Glaze to timber with timber breads	m2	\$ 47.00
14.1.2.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 41.00
14.1.3	<u>Opaque sheet glass to B.S 952</u>		
14.1.3.1	6mm thick Glaze to timber with timber breads	m2	\$ 49.00
14.1.3.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 43.00
14.1.4	<u>Reinforced sheet glass to B.S 952</u>		
14.1.4.1	6mm thick Glaze to timber with timber breads	m2	\$ 55.00
14.1.4.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 49.00
14.2	<b><u>Remove existing and replace with new aluminium sliding door / sliding window / casement window / top hung / folded / side hung / flow wind window complete with aluminium frame, hinges, running rollers, lockset, handle, aluminium beads and vinyl or neoprene</u></b>		
14.2.1	6mm thick Clear glass	m2	\$ 167.00
14.2.2	6mm thick Tinted glass	m2	\$ 170.00
14.2.3	6mm thick Obscured glass	m2	\$ 170.00
14.3	<b><u>Remove existing and replace with new ± 6mm thick float glass to 150mm wide louvre window frames, to match existing using</u></b>		
14.3.1	Clear / Obscured glass	No.	\$ 3.00
14.3.2	Tinted glass	No.	\$ 3.50
14.4	<b><u>Remove existing and replace with new ± 6mm thick glass panel to aluminium frame with aluminium beads and vinyl or neoprene gaskets for sliding door / sliding window / top hung window, to match existing using</u></b>		
14.4.1	Clear / Obscured glass	No.	\$ 25.00
14.4.2	Tinted glass	No.	\$ 33.00
14.4.3	Reflective glass	No.	\$ 56.00



Item No.	Description	Unit	Rate
<b>15.0</b>	<b><u>PAINTING WORKS</u></b>		
<b>15.1</b>	Prepare existing surfaces by cleaning, removing all dirt and loose particles using any necessary tools or machine required; seal up any cracks of joints in cement; fill wood surfaces with appropriate wood filler and sand down with abrasive paper to smooth surfaces; remove rust, miliscales oil / grease and contaminants for metal; all surfaces should be sound, clean, dry and free from all defective or poorly adhering materials, dirt, grease etc. before applying paint works.	m2	\$ 2.50
<b>15.2</b>	<u>Apply paint to concrete, cement board, gypsum, wood, metal, aluminium surfaces and the like;</u>  (State brand: .....)		
<b>15.2.1</b>	One coat Primer exterior / Plastered	m2	\$ 3.00
<b>15.2.2</b>	One coat finishing for exterior / Plastered	m2	\$ 3.00
<b>15.2.3</b>	One coat weathersheild finishing for exterior / Plastered	m2	\$ 3.50
<b>15.2.4</b>	One coat undercoat for wood & metal	m2	\$ 3.00
<b>15.2.5</b>	One coat finishing for wood & metal	m2	\$ 3.00
<b>15.2.6</b>	One coat Primer for interior / gypsum / plastered	m2	\$ 3.00
<b>15.2.7</b>	One coat low odour finishing for interior / gypsum / plastered	m2	\$ 3.50
<b>15.2.8</b>	One coat finishing for interior / gypsum / plastered	m2	\$ 3.00
<b>15.2.9</b>	One coat finishing for roof	m2	\$ 3.50
<b>15.2.10</b>	Two coats thermoplastic road paint to BS3262 (100mm wide lines)	m	\$ 2.00
<b>15.2.11</b>	Two coats thermoplastic road paint to BS3262 (200mm-300mm girth black & white stripes on concrete curb)	m	\$ 3.00
<b>15.2.12</b>	Two coats thermoplastic road paint to BS3262 (500mm-850mm wide x 4000mm arrow head and tail, straight, turn etc.)	No.	\$ 40.00
<b>16.0</b>	<b><u>WATERPROOFING</u></b>  <b>Notes:</b>  i) <b>TEN (10) YEARS GUARANTEE ON WATERPROOFING SYSTEM WORKS.</b>  ii) <b>Each waterproofing system quoted shall be accompanied by a written warranty to the effect that the waterproofing system supplied and installed by the authorised installer will be waterproofed for a minimum period of ten (10) years, commencing from the date of practical completion of the works.</b>  iii) <b>All waterproofing work shall be carried out by MOD registered waterproofing contractor with an KPB02 category and all work should have complied with the ABCI standard's specification and procedure and cost of endorsement of the complete work be done by the contractors and deemed to be included in their pricings.</b>		
<b>16.1</b>	<b><u>Waterproofing To Metal Surfaces</u></b>  (State brand: .....)		
<b>16.1.1</b>	To clean and remove all rust, dirt and grease using high pressure water jet and / or using appropriate solvent and apply one coat of rust inhibitive primer.	m2	\$ 9.00
<b>16.1.2</b>	To apply one coat of metal primer to cleaned corroded surface all in accordance with the manufacturer's instructions and specifications.	m2	\$ 8.00



Item No.	Description	Unit	Rate
16.1.3	To apply and lay monolithic brush on type waterproofing membrane inclusive one layer of reinforcement to metal surface all in accordance with the manufacturer's instructions and specifications.	m2	\$ 40.00
16.2	<b><u>Waterproofing (Tanking System) For Toilets, Bathrooms, kitchens, verandahs and the like</u></b>  (State brand: _____)		
16.2.1	To hack out existing floor tiles up to 50mm thick from existing floor screed and 200mm high skirting inclusive of cleaning exposed surfaces to receive new finishes.	m2	\$ 6.00
16.2.2	To lay 2 coats of different colour monolithic brush on the type waterproofing membrane system to sound cleaned and exposed concrete floor surfaces inclusive up to 200mm high exposed skirting surface, all in accordance with the manufacturer's instructions and specification.	m2	\$ 29.00
16.2.3	To lay up to 25mm thick cement screed (1:3 mix) over the waterproofing membrane to falls .	m2	\$ 9.00
16.2.4	Flex-lac PUW waterborne 100% aliphatic clear waterproofing or approved equivalent. (State brand: _____)	m2	\$ 32.00
16.3	<b><u>Flood Infusion Waterproofing Treatment for Toilets, Bathrooms, Kitchens, Verandahs and the likes</u></b>  (State brand: _____)		
16.3.1	To supply and apply the flood infusion treatment waterproofing including all necessary preparation work, materials, accessories for successful completion of work as per manufacturer instruction and by authorised applicator, all as directed by the O.I.C.	m2	\$ 35.00
16.4	<b><u>Waterproofing to Gutter / Flat Roof And The Like</u></b>		
16.4.1	To clean and remove all dirt, grase and existing membrane debris on surfaces using high pressure water by means of water jetting and / or using appropriate solvent until bare concrete appears; to locate and seal all cracks with light weight mortar.	m2	\$ 6.00
16.4.2	To prime bare concrete surface with one coat of elastomeric acrylic waterproofing polymers primer.	m2	\$ 14.00
16.4.3	To lay 50mm to 75mm thick cement screed (1:3 mix) to the existing flat roof / gutter, laid to fall and should be roughened to provide better bonding on the fresh screed, all to O.I.C's satisfaction.	m2	\$ 17.00
16.4.4	<u>To lay 2 coats of different colour monolithic "BRUSH ON ACRYLIC" type waterproofing membrane system inclusive one layer of reinforcement, all in accordance with the manufacturer's instruction</u>		
16.4.4.1	flat Roof	m2	\$ 33.00
16.4.4.2	flat roof, side and bottom of gutter	m2	\$ 40.00
16.4.4.3	skirting not exceeding 200mm high	m2	\$ 8.00



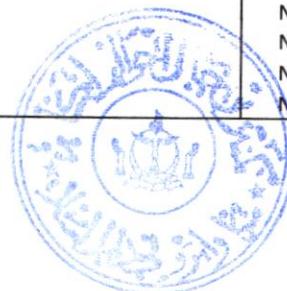
Item No.	Description	Unit	Rate
16.4.5	Flex-lac PUW waterborne 100% aliphatic clear waterproofing or approved equivalent. (State brand: _____)	m2	\$ 32.00
16.4.6	<u>To lay "TORCH ON" type waterproofing membrane all in accordance with the manufacturer's instructions and specification</u>		
16.4.6.1	flat roof, side and bottom of gutter	m2	\$ 40.00
16.4.6.2	skirting not exceeding 200mm high	m2	\$ 9.00
17.0	<b><u>FENCING WORK</u></b>		
	<u>Remove existing, supply, fix and install the following:</u>		
17.1	SWG 8 PVC coated fencing mesh including 3 nos straining wire, clips and other accessories	m2	\$ 14.00
17.2	SWG 12 galvanised fencing mesh including 3 nos straining wore, clips and other accessories	m2	\$ 13.00
17.3	50mm x 1800mm long lionmesh hot dip galvanised fencing post with anti-climb clank top with 3 nos eye for barbed wire	No.	\$ 35.00
17.4	50mm x 1800mm long lionmesh hot dip galvanised fencing post with anti-climb clank top with 4 nos eye for barbed wire	No.	\$ 36.00
17.5	50mm x 2500mm long lionmesh hot dip galvanised fencing post with anti-climb clank top with 3 nos eye for barbed wire	No.	\$ 40.00
17.6	50mm x 2500mm long lionmesh hot dip galvanised fencing post with anti-climb clank top with 4 nos eye for barbed wire	No.	\$ 41.00
17.7	Lionmesh or equivalent fencing panel overall size 2400mm long x 1800mm high with 6.5mm bar and fixing clip complete	No.	\$ 110.00
17.8	Double leaf swing gate size 6400mm wide x 1800mm high including 100mm GI post complete	Set	\$ 2,100.00
17.9	1000mm wide x 1800mm high pedestrian gate including 100mm GI post complete	No.	\$ 350.00
17.10	Fabricate and install MS double-leaf gate consists of 75mm x 75mm x 6mm MS angle frame and cross bracing infilled with SWG 8 gauge GI fencing mesh including 100mm diameter post overall size 6400mm wide x 1800mm high painted.	Set	\$ 1,900.00
17.11	Fabricate and install MS double-leaf gate consists of 75mm x 75mm x 6mm MS angle frame and cross bracing infilled with SWG 12 gauge GI fencing mesh including 100mm diameter post overall size 6400mm wide x 1800mm high painted.	Set	\$ 2,200.00
17.12	Fabricate and install MS 1000mm wide x 1800mm high pedestrian gate including 100mm diameter post	No.	\$ 300.00
17.13	Supply and fix galvanised mild steel barbed wire .	m	\$ 3.00
17.14	Refix and repair to loose / disjointed / misaligned / tilted fencing mesh / panel / post by welding or tightening existing accessories and fittings or to replace with new and make good work disturbed .	No.	\$ 10.00



Item No.	Description	Unit	Rate
<b>18.0</b>	<b><u>ACCESSORIES AND ANCILLARIES</u></b>		
	<b><u>Valves and Taps</u></b>		
	<b><u>Valves to B.S 1010 and B.S 1212</u></b>		
	<b><u>Remove the existing and fix new; include all necessary connection, threading, hacking out concrete wall tile and make good disturbed to match existing;</u></b>		
<b>18.1</b>	<b><u>Brass Gate valve / Chrome stop valve</u></b>		
<b>18.1.1</b>	15mm diameter	No.	\$ 12.00
<b>18.1.2</b>	22mm diameter	No.	\$ 17.00
<b>18.1.3</b>	28mm diameter	No.	\$ 20.00
<b>18.1.4</b>	35mm diameter	No.	\$ 25.00
<b>18.1.5</b>	54mm diameter	No.	\$ 45.00
<b>18.1.6</b>	Ditto but to remove and replace 15mm diameter ( ½" ); "Brand Showy"	No.	\$ 17.00
<b>18.1.7</b>	Ditto but to remove and replace 15mm diameter ( ½" ); "Brand Toto"	No.	\$ 32.00
<b>18.2</b>	<b><u>Extra Over Brass Check Valve BS1010</u></b>		
<b>18.2.1</b>	Ditto but to remove and replace 22mm diameter ( ¾" )	No.	\$ 23.00
<b>18.2.2</b>	Ditto but to remove and replace 28mm diameter pipes ( 1" )	No.	\$ 32.00
<b>18.2.3</b>	Ditto but to remove and replace 40mm diameter pipes ( 1" )	No.	\$ 36.00
<b>18.2.4</b>	Ditto but to remove and replace 54mm diameter pipes ( 2" )	No.	\$ 72.00
<b>18.3</b>	<b><u>Sluice Valve; including</u></b>		
<b>18.3.1</b>	75mm diameter	No.	\$ 350.00
<b>18.3.2</b>	100mm diameter	No.	\$ 400.00
<b>18.3.3</b>	150mm diameter	No.	\$ 500.00
<b>18.4</b>	<b><u>Non-return Valve; including</u></b>		
<b>18.4.1</b>	75mm diameter	No.	\$ 200.00
<b>18.4.2</b>	100mm diameter	No.	\$ 250.00
<b>18.4.3</b>	150mm diameter	No.	\$ 350.00
<b>18.5</b>	Remove existing tap of any sizes and brand	No.	\$ 10.00
<b>18.6</b>	<b><u>Remove existing and replace with new ½" tap for wash hand basin/sink including piping/threading required; as per stated brand or other approved equivalent.</u></b>		
<b>18.6.1</b>	a) Brass Bib Tap	No.	\$ 14.00
<b>18.6.2</b>	b) Chrome Pillar Tap; American Standard	No.	\$ 25.00
<b>18.6.3</b>	c) Chrome Pillar Tap; Armitage Shanks	No.	\$ 20.00
<b>18.6.4</b>	d) Chrome Plated Goose Neck/Swan Tap (Single hole); American Standard	No.	\$ 40.00
<b>18.6.5</b>	e) Chrome Plated Goose Neck/Swan Tap (Single hole); Armitage Shanks	No.	\$ 30.00
<b>18.6.6</b>	f) Chrome Plated Goose Neck/Swan Tap (Single hole); Asahi Acrylic	No.	\$ 25.00
<b>18.6.7</b>	g) Chrome Plated Goose Neck/Swan Tap mixer (Single hole); American Standard	No.	\$ 100.00
<b>18.6.8</b>	h) Chrome Plated Goose Neck/Swan Tap mixer (Single hole); Armitage Shanks	No.	\$ 65.00
<b>18.6.9</b>	i) Chrome Plated Goose Neck/Swan Tap mixer (Single hole); Asahi Acrylic	No.	\$ 48.00
<b>18.6.10</b>	j) Chrome Plated Goose Neck/Swan Tap mixer (Double hole); American Standard	No.	\$ 200.00
<b>18.6.11</b>	k) Chrome Plated Goose Neck/Swan Tap mixer (Double hole); Armitage Shanks	No.	\$ 140.00
<b>18.6.12</b>	l) Chrome Plated Goose Neck/Swan Tap mixer (Double hole); Asahi Acrylic	No.	\$ 65.00
<b>18.7</b>	Supply and fix new : Showy - 2565m - PQC; complete with connection to existing pipe	No.	\$ 38.00



Item No.	Description	Unit	Rate
18.8	Supply and fix new : Showy 6272 - Quarter turn single level bib faucet - 140mm; complete with connection to existing pipe	No.	\$ 31.00
18.9	Supply and fix new : Showy - 6051F50 : Quarter turn single lever flexible spout sink faucet; complete with connection to existing pipe	No.	\$ 50.00
18.10	Supply and fix new : Showy - 2988 The Pure C.P brass garden tap; complete with connection to existing pipe	No.	\$ 9.00
18.11	Supply and fix new : Showy 2575HC C.P C/C stop cock; complete with connection to existing pipe	No.	\$ 14.00
18.12	Supply and fix new : Showy 6053 - Quarter turn single level wall sink tap; complete with connection to existing pipe	No.	\$ 35.00
18.13	Supply and fix new : Showy 6051U Quarter turn single level 'U' spout sink faucet; complete with connection to existing pipe	No.	\$ 41.00
18.14	<u>Chrome Pillar / WB tap</u>		
18.14.1	15mm diameter	No.	\$ 15.00
18.14.2	20mm diameter	No.	\$ 30.00
18.14.3	22mm diameter	No.	\$ 45.00
18.15	<u>Chromium water tap/bib tap</u>		
18.15.1	Ditto but remove and replace 15mm "ilife" Art:TH8107 (3) bib cock/tap	No.	\$ 99.00
18.15.2	Ditto but remove and replace 15mm diameter "Toto" T23 B13	No.	\$ 117.00
18.16	<u>Lavatory Faucet (Wash Basin) Tap</u>		
18.16.1	Ditto but remove and replace "ilife" Art:TH8065	No.	\$ 72.00
18.16.2	Ditto but remove and replace 15mm diameter "Grohe" pillar tap : 20 101 OR "American Standard" WF-4604.405	No.	\$ 135.00
18.16.3	Ditto but to remove and replace 15mm diameter, Toto TX603KCS hot and cold.	No.	\$ 113.00
18.16.4	Ditto but to remove and replace 15mm diameter, Toto T205 LCSC	No.	\$ 135.00
18.17	<u>Wash Basin mixer Tap with Pop-Up Waste/Weight Chain</u>		
18.17.1	Ditto but to remove and replace "ilife" D7911D1C	No.	\$ 130.00
18.17.2	Ditto but to remove and replace "TOTO" TX115 LF or "American Standard" wf-3011.201.50	No.	\$ 108.00
18.17.3	Ditto but to remove and replace "Grohe" Euroeco 33 149	No.	\$ 117.00
18.17.4	Ditto but to remove and replace "Grohe" Baucurve 32805. Chromium Plated Stop Valve (Angle tap)	No.	\$ 180.00
18.17.5	Ditto but to remove and replace 15mm diameter "ilife".	No.	\$ 72.00
18.17.6	Ditto but to remove and replace 15mm diameter "Toto" TX 423 ST1	No.	\$ 108.00
18.17.7	Ditto but to remove and replace 15mm diameter, "Toto" TL 340 C5N or "American Standard".	No.	\$ 135.00
18.18	<u>Chromium Plated Goose Neck or Swan Tap mixer (Single hole)</u>		
18.18.1	Ditto but to remove and replace 15mm diameter "ilife" Art:TH8084 double handle or single handle	No.	\$ 90.00
18.18.2	Ditto but to remove and replace 15mm diameter "ilife" Art:202102C single handle	No.	\$ 90.00
18.18.3	Ditto but to remove and replace 15mm diameter "ilife" Art:202102C single handle mixer	No.	\$ 180.00
18.18.4	Ditto but to remove and replace "Grohe" : CLASSIC 31522	No.	\$ 135.00
18.18.5	Ditto but to remove and replace "Grohe" : CLASSIC 33202 mixer	No.	\$ 350.00
18.18.6	Ditto but to remove and replace "Toto" TX603KCS	No.	\$ 96.00
18.18.7	Ditto but to remove and replace "American Standard" WF-5607.501.50	No.	\$ 135.00



Item No.	Description	Unit	Rate
<b>18.19</b>	<u>Garden Tap</u>		
<b>18.19.1</b>	Ditto but to remove and replace 15mm diameter "Showy" 6082N Blue Handle mini Garden tap with hose union.	No.	\$ 18.00
<b>18.19.2</b>	Ditto but 15mm diameter "ilife" Art:TH8107 (3) tap with hose union.	No.	\$ 72.00
<b>18.19.3</b>	Ditto but to remove and replace "American Standard" WF-4606.405	No.	\$ 135.00
<b>18.19.4</b>	Ditto but to remove and replace "Toto" T26-13	No.	\$ 135.00
<b>18.20</b>	<u>Bath mixer Tap Complete with Telephone Shower</u>		
<b>18.20.1</b>	Ditto but to remove and replace 15mm diameter "ilife" 02 3101C single lever bath mixer with 98 1104C handshower with flexible hose.	No.	\$ 225.00
<b>18.20.2</b>	Ditto but to remove and replace 15mm diameter "ilife" 073101C single lever bath mixer with 98 6201C handshower with flexible hose.	No.	\$ 280.00
<b>18.20.3</b>	Ditto but to remove and replace "Grohe" : EUROECO 335838 "Single Lever"	No.	\$ 225.00
<b>18.20.4</b>	Ditto but to remove and replace "Grohe" : Baucurve 32805 "Single Lever"	No.	\$ 225.00
<b>18.20.5</b>	Ditto but to remove and replace "American Standard" WF-2711.60.50 or "Toto" TX401 SBZ	No.	\$ 225.00
<b>18.20.6</b>	Ditto but to remove and replace "American Standard" WF-2711.60.50 or Acacib bath/shower mixer c/w handshower and holder	No.	\$ 520.00
<b>18.21</b>	<u>Remove existing flexible hose and replace new with:</u>		
<b>18.21.1</b>	15mm diameter; connection to pipe	No.	\$ 13.00
<b>18.21.2</b>	20mm diameter; connection to pipe	No.	\$ 15.00
<b>18.22</b>	<u>Repair pipe with new collar clamp</u>		
<b>18.22.1</b>	50mm diameter pipes	No.	\$ 100.00
<b>18.22.2</b>	65mm diameter pipes	No.	\$ 150.00
<b>18.22.3</b>	80mm diameter pipes	No.	\$ 200.00
<b>18.22.4</b>	100mm diameter pipes	No.	\$ 250.00
<b>18.22.5</b>	150mm diameter pipes	No.	\$ 300.00
<b>18.23</b>	<u>Repair pipe with new split collar clamp</u>		
<b>18.23.1</b>	50mm diameter pipes	No.	\$ 100.00
<b>18.23.2</b>	65mm diameter pipes	No.	\$ 150.00
<b>18.23.3</b>	80mm diameter pipes	No.	\$ 200.00
<b>18.23.4</b>	100mm diameter pipes	No.	\$ 250.00
<b>18.23.5</b>	150mm diameter pipes	No.	\$ 300.00
<b>18.24</b>	<u>New flushing cistern-all dual flush or water saver types (3/6 litres)</u>		
<b>18.24.1</b>	Ditto but to remove and replace "Toto" or "American Standard" (Ceramic high/low level - white) including all fittings and plumbing works.	No.	\$ 135.00
<b>18.24.2</b>	Ditto but to remove and replace "Cotto" or "Karat" high/low level - White) including all fittings and plumbing works. Close-coupled white.	No.	\$ 108.00
<b>18.25</b>	<u>Tank Fittings for Water Closets Cisterns</u>		
<b>18.25.1</b>	W.C Siphon tank fittings	No.	\$ 50.00
<b>18.25.2</b>	"Armitage Shank" free flow or any other technically approved equivalent	No.	\$ 50.00
<b>18.25.3</b>	"American Standard" TF-1011 or any other technically approved equivalent	No.	\$ 50.00
<b>18.26</b>	<u>Plastic mechanism Dual Flush Type for Water Closets/Flushing Cistern (Tank Fitting)</u>		
<b>18.26.1</b>	Ditto but to remove and replace common / normal type or siphon type or similar fittings	No.	\$ 23.00
<b>18.26.2</b>	Ditto but to remove and replace plastic mechanism for DUAL FLUSH TYPE "Toto" / "American Standard"	No.	\$ 54.00



Item No.	Description	Unit	Rate
<b>18.27</b>	<b><u>Water Tank</u></b>		
<b>18.27.1</b>	Remove existing, supply and fix new 1000 litres stainless steel panel tank complete with metal stand, water pump, water filter, concrete base and other necessary support items.	No.	\$ 1,000.00
<b>18.27.2</b>	Remove existing, supply and fix 1600 litres stainless steel water storage tank complete with metal stand, water pump, water filter, concrete base and other necessary support items.	No.	\$ 1,300.00
<b>18.27.3</b>	Remove existing, supply and fix 2000 litres stainless steel water storage tank complete with metal stand, water pump, water filter, concrete base and other necessary support items.	No.	\$ 1,500.00
<b>18.27.4</b>	<u>Remove existing, supply and install new stainless cylindrical/panel water tank of capacity: SS316 or approve equivalent; all labour, equipment, materials, machinery, transportation, tools, scaffolding and make good opening existing ceiling including all bracket, painting and other associated;</u>		
<b>18.27.4a</b>	2,000 litres	No.	\$ 850.00
<b>18.27.4b</b>	1,600 litres	No.	\$ 750.00
<b>18.27.4c</b>	1,000 litres	No.	\$ 550.00
<b>18.27.5</b>	Remove existing, supply and fix, Davies or other approved equivalent to 1H electrical pump including wiring	No.	\$ 600.00
<b>18.28</b>	<b><u>Water Tank Fittings</u></b>		
<b>18.28.1</b>	<u>Brass ball float valve c/w polythene ball</u>		
<b>18.28.1a</b>	22mm	No.	\$ 23.00
<b>18.28.1b</b>	25mm ( 1" )	No.	\$ 27.00
<b>18.28.1c</b>	28mm	No.	\$ 30.00
<b>18.28.1d</b>	32mm ( 1¼" )	No.	\$ 35.00
<b>18.28.1e</b>	50mm ( 2" )	No.	\$ 36.00
<b>18.28.1f</b>	54mm	No.	\$ 42.00
<b>18.28.1g</b>	75mm ( 3" )	No.	\$ 50.00
<b>18.28.1h</b>	100mm ( 4" )	No.	\$ 100.00
<b>18.28.2</b>	<u>Brass ball float valve c/w copper ball</u>		
<b>18.28.2a</b>	75mm ( 3" )	No.	\$ 75.00
<b>18.28.2b</b>	78mm	No.	\$ 80.00
<b>18.28.2c</b>	100mm ( 4" )	No.	\$ 130.00
<b>18.29</b>	<b><u>Booster Pumpset</u></b>		
<b>18.29.1</b>	Remove existing, supply and install EBARA/DAVEY or ABCi approved booster pump set of capacity 1.0 litre/sec. @ 24m, model Evm 4 - 4N/0.75kW. Power point (of distance within 40m)	No.	\$ 800.00
<b>18.29.2</b>	Remove existing, to supply labourer for servicing water pump including replacement of minor electrical, mechanical defects (Dual pressure switch etc.) and rubber union or expansion joint testing and commissioning and other associated works.	No.	\$ 140.00



Item No.	Description	Unit	Rate
19.0	<b><u>MINOR STRUCTURAL REPAIR WORKS</u></b>		
19.1	<b><u>Cracked Lines and the Likes</u></b>		
19.1.1	Hack and clean all crack line to wall, ceiling, etc. and prepare surfaces to receive mortar	m	\$ 2.00
19.1.2	Hack and clean crack line with air jet, insert injection ports at interval and seal up cracks line with Epoxy light weight mortar	m	\$ 5.00
19.1.3	Inject Epoxy Resin starting from the bottom / first injection port until it flows to the adjacent port inclusive of removing the ports and patch up all irregularities	m	\$ 35.00
19.1.4	Repair cracks by patch repair with polymer modifies mortar including applying bonding agent to newly hacked surfaces	m	\$ 18.00
19.1.5	Locate, hack, remove and dispose offsite of all spalling and unsound concrete up to a maximum 50mm width along cracked lines with approved hand/low-powered tools; until exposing sound concrete; inclusive of roughening and cleaning of all exposed surfaces/edges; ready to receive new structural materials.	m	\$ 5.00
19.1.6	Fill and seal up newly hacked, roughened, cleaned and exposed surfaces/edges of cracked lines to smooth with approved Epoxy Light Weight mortar, inclusive of applying with approved bonding agent.	m	\$ 5.00
19.1.7	To remove, clean existing sealer, filler or putty prior to receive new filler or sealer.	m	\$ 4.00
19.1.8	To cut out the cracks with a masonry grinder or disc cutter, to form square edges slot, and remove all dust and debris.	m	\$ 10.00
19.1.9	To supply and lay new sealer, a mixture of bonding agent and cement paste to cracks and opening to masonry building generally.	m	\$ 15.00
19.1.10	To supply and lay new sealant, to cracks and opening to masonry building generally.	m	\$ 15.00
19.1.11	To supply and lay new roof asphalt cement to roof blister, cracks, joint and opening generally including warranty.	m	\$ 20.00
19.2	<b><u>Ground Slab, Aprons and the Likes</u></b>		
	<u>Repair of newly hacked, roughened, cleaned and exposed surfaces/edges of ground slab/apron with concrete not exceeding 100mm thick, including plastering works, formwork and other necessary works required, all to match existing. Works include to remove unsound concrete with approved hand/low powered tools; until exposing sound concrete; replace any damaged reinforcements to match existing and clear all debris offsite</u>		
19.2.1	grade 20	m2	\$ 15.00
19.2.2	grade 25	m2	\$ 16.00
19.2.3	grade 30	m2	\$ 17.00



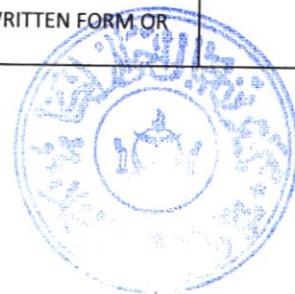
Item No.	Description	Unit	Rate
<b>19.3</b>	<b><u>Expansion Joints</u></b>		
19.3.1	Remove existing expansion joint materials, unsound/spalled concrete; roughened and cleaned all exposed surfaces with approved hand/low-powered tools ready to receive new expansion joints materials.	m	\$ 10.00
19.3.2	<u>Replace and insert with new Flexcell Bitumen Impregnated Fibre Board or other approved equivalent; inclusive of sealing at top with Polysulphide Rubber Sealant or other approved equivalent.</u>		
	<u>Wall and the likes</u>		
19.3.2.1	12.5mm x 12.5mm	m	\$ 25.00
19.3.2.2	24mm x 24mm	m	\$ 28.00
19.3.2.3	30mm x 30mm	m	\$ 30.00
<b>20.0</b>	<b><u>ROADWORKS, PAVING BLOCKS, ROAD SIGNAGES AND INTERNAL/EXTERNAL BUIDNING SIGNAGES</u></b>		
<b>20.1</b>	<b><u>Roadworks</u></b>		
20.1.1	<u>Excavation for roads, hardstanding and the likes; extra over all types of excavation/cutting using appropriate cutter equipment/machine and disposal for breaking up and removing the following materials</u>		
20.1.1.1	reinforced concrete	m3	\$ 55.00
20.1.1.2	rock	m3	\$ 22.00
20.1.1.3	tarmacadam road surfacing and base courses	m2	\$ 16.00
20.1.2	<u>Preparing, trimming, etc sub-grade formation to the required levels, gradinets, falls or camber to receive road bottoming, pavement or the like</u>	m2	\$ 1.60
20.1.3	<u>Approved free-draining material (uncrushed stone); beds well cosolidated, rolling with approved roller</u> 150mm thick including extra labour laying to slopes, falls or chamber; blinding with sand	m2	\$ 12.00
20.1.4	<u>Bitumen tack coat; B.S. 3690; applied at the rate 2m2 - 3m2 per litre</u>		
20.1.4.1	applying on blinded road base surface	m2	\$ 2.00
20.1.4.2	applying on asphaltic concrete base coarse surface	m2	\$ 2.00
20.1.5	<u>Aspahaltic concrete base course; on road base; rolling with approved roller</u> 60mm thick after consolidated; laying to slopes, falls and cambers	m2	\$ 27.00
20.1.6	<u>Asphaltic concrete wearing course; rolling with approved roller</u> 40mm thick after consolidated; laying to slopes, falls and cambers	m2	\$ 20.00
20.1.7	Sealing of road pavement cracks with bitumen sand mix (1:2 portion) as directed by S.O	m	\$ 3.00
<b>20.2</b>	<b><u>Road Signage / Walkway Post</u></b>		
20.2.1	repainting of existing post of any size with approved paint or directed by S.O including sanding and cleaning works prior to painting.	m2	\$ 2.00
20.2.2	realignment / adjustment of existing tilted/turned regulatory/warning sign and post of any size including making good the surrounding to match existing or as directed by the S.O	No.	\$ 6.00



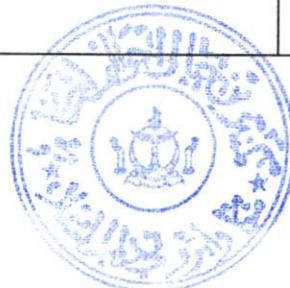
Item No.	Description	Unit	Rate
<b>20.3</b>	<b><u>Paving Blocks</u></b>		
	<u>To remove existing paver blocks; supply and lay new paver blocks on well compacted and level smooth even surface bedding sand</u>		
20.3.1	"D" type	m2	\$ 100.00
20.3.2	"U" type	m2	\$ 122.00
20.3.3	"Y" type	m2	\$ 100.00
20.3.4	"Shell" type	m2	\$ 32.00
20.3.5	"Penguin" type	m2	\$ 105.00
<b>21.0</b>	<b><u>GENERAL SERVICES</u></b>		
<b>21.1</b>	<b><u>Cleaning Water Tank</u></b>		
	<u>Supply all labour, equipment, materials, transportation, tools, scaffolding and make good opening existing ceiling including all bracket, painting and other associated work for purpose cleaning/washing/desludging of existing water tanks with water jet, brushing as instructed by OIC and satisfaction for cylindrical/panel water tank capacity</u>		
21.1.1	Not exceeding 2300 litres (1.2m x 1.2m x 1.2m)	No.	\$ 80.00
21.1.2	Ditto but not exceeding 4000 litres (1m x 2m x 2m)	No.	\$ 100.00
21.1.3	Ditto but not exceeding 8000 litres (2m x 2m x 2m)	No.	\$ 200.00
<b>21.2</b>	<b><u>Miscellaneous Maintenance Works Clean and Unblock Clogged Sanitary System</u></b>		
	<u>Supply labour, plants, tools, equipment, vehicles and other necessary to clean and unblock the following clogged sanitary plumbing system and fittings:</u>		
21.2.1	manhole	No.	\$ 50.00
21.2.2	Septic tank	No.	\$ 300.00
21.2.3	Grease trap	No.	\$ 325.00
21.2.4	Gully trap	No.	\$ 30.00
21.2.5	Floor trap	No.	\$ 15.00
21.2.6	Toilet bowl	No.	\$ 20.00
21.2.7	Urinal bowl	No.	\$ 20.00
21.2.8	Wash hand basin	No.	\$ 15.00
21.2.9	Kitchen sink	No.	\$ 15.00
21.2.10	150mm - 100mm diameter pipe	m	\$ 6.00
21.2.11	100mm - 75mm diameter pipe	m	\$ 5.00
21.2.12	75mm - 50mm diameter pipe	m	\$ 3.00
<b>21.3</b>	<b><u>Temporary Hiab Crane, Safety Signs &amp; Hoarding</u></b>		
21.3.1	<u>To provide hiab crane services all in accordance to current available construction safety practices and requirement as per S.O approval and satisfaction.</u>		
21.3.1.1	Normal Hiab	Hour	\$ 90.00
21.3.1.2	Crane with Long Boom (915 tonnes / 20 tonnes / 25tonnes)	Hour	\$ 200.00
21.3.2	<u>Construct and install hoarding;</u>		
21.3.2.1	Safety hoarding; less than 2.5m high, metal cladding including timber/metal support, bracing and all other necessary works	m	\$ 40.00
21.3.2.2	Safety hoarding; 2.5m - 4m high, metal cladding including timber/metal support, bracing and all other necessary works	m	\$ 80.00
21.3.3	<u>Supply and install;</u>		
21.3.3.1	Safety barricades, safety cones, signboard, safety netting or any relevant acceptable safety measures	Lot	\$ 50.00



Item No.	Description	Unit	Rate
21.3.3.2	Heavy duty green canvas inclusive of ropes, pegs and installation	m2	\$ 6.00
21.3.3.3	Barrier warning tapes (Red and white colour)	m	\$ 0.10
<b>21.4</b>	<b><u>General Conservancy &amp; Cleaning Works</u></b>		
21.4.1	Dry sweeping, cleaning, racking, clearing, removing, carting, towing and transporting away dry leaves, fallen branches, silts, rubbish and any all waste, debris, unwanted articles and refuse from trade, construction, domestic and the likes, dumped and thrown illegally, to driveways, road kerbs, pedestrian walkways, ground floor parking bays and all open compound, playground, landscape and grass covered area; and including building scupper/perimeter and roadside drains, channels, sumps and the likes; and including emptying and cleaning with detergent of waste/litterbins and playground equipment, sets, accessories and the likes, all as specified; and as per O.I.C's instruction and satisfaction.	Lot	\$ 200.00
21.4.2	<u>Desilting, washing, flushing and the likes to building (ONLY) driveways, aprons, perimeter drains and the likes; by means of high pressure water-jetting to open and concealed building scupper/perimeter drains with average width generally not exceeding 500mm including adjacent apron, channels, sumps and the likes, including cleaning by carting, removing and transporting away any and all waste all as specified.</u>		
21.4.2.1	driveway, apron	m2	\$ 0.20
21.4.2.2	perimeter drain	m	\$ 0.30
<b>21.5</b>	<b><u>Clear &amp; Cutting</u></b>		
21.5.1	Clear any vegetation, grass, shrubs, bushes, stone, boulder and the like; clear all debris off site or at S.O discretion. (Not for clearing trees)	m2	\$ 1.00
21.5.2	<u>Cut down large trees or fallen trees including grubbing up roots and filling coids with imported fills; and dispose off site</u>		
21.5.2.1	< 150mm Ø	No.	\$ 250.00
21.5.2.2	150mm - 300mm Ø	No.	\$ 400.00
21.5.2.3	> 300mm Ø	No.	\$ 650.00
<b>21.6</b>	<b><u>Grass Cutting Works</u></b>	m2	\$ 0.20
	NOTE: Height of cut grass shall be approximately 25mm from ground level.		
	Grass cutting including edge trimming and grass covered. Landscape areas within the specified zones, including Maximum (6) SIX meters adjacents and beyond any accessible man made features,access roads, roadside reserve, boundaries, perimeter fencing, wall and / or drains and the like within the Contract Site Boundary; and including cleaning, and / or carting away all cut grass as per S.O's instruction and satisfaction		
<b>21.7</b>	<b><u>Pest Control</u></b>		
	<b>Note :</b> Contractors are to submit approval certification from CPRU and Ministry of Health for any chemicals to be used.  To attached brochure/catalogue of materials to be used.  ** FOR EACH TREATMENT A 5 YEARS WARRANTY SHOULD BE PROVIDED IN WRITTEN FORM OR AS SPECIFIED BY THE MANUFACTURER.		



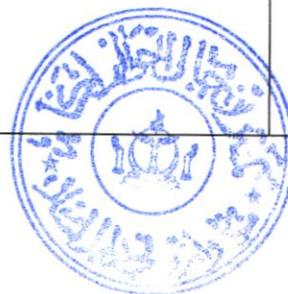
Item No.	Description	Unit	Rate
<b>21.7.1</b>	<b><u>Anti-Termites treatment Works</u></b>		
<b>21.7.1.1</b>	<b><u>Method 1</u></b> (PREMISE 200 ST/ MATADOR or approved equivalent State Brand : ..... ) Drill neat holes along both sides of walls / built-in cabinet through cabinet floor or apron, so as to reach the soil. Inject approved termiticide in every holes, all in accordance with manufacturer's instruction using low pressure pump as per S.O's instruction.	No.	\$ 2.00
<b>21.7.1.2</b>	<b><u>Method 2</u></b> (PREMISE 200 ST/ MATADOR or approved equivalent State Brand : ..... ) Brush on or spray with approved termiticide, all in accordance with manufacturer's instruction into all termite galleries or tunnels that are visible on the exposed parts of timber structures.	m2	\$ 0.50
<b>21.7.1.3</b>	<b><u>Others</u></b> External inspection and apply approved termiticide to trees, logs, stumps, poles or any timber materials and termite nests within the compound of the infested premises suspected of harbouring termites, all in accordance with manufacturer's instruction including probing and clearing off site.	No.	\$ 15.00
<b>21.7.1.4</b>	<b><u>Thermal Imaging Inspection (Infrared Camera) Works</u></b> To provide Thermal Imaging inspection using Infrared Camera to detect termites activity and to provide comprehensive report. (Inspection must be carried out in all area of the inclusive all occupied tenants units)	Block	\$ 2,000.00
<b>21.7.2</b>	<b><u>Hornet's Hive Removal</u></b>		
<b>21.7.2.1</b>	To remove and control mainly by spraying with residual instant knockout effect insecticide (certified by Ministry of Health, Negara Brunei Darussalam). The instant knockout effect insecticide provide residual exterminating action on hornet.	Treatment	\$ 200.00
<b>21.7.3</b>	<b><u>Rodent Control</u></b>		
<b>21.7.3.1</b>	<b><u>Flushing Out (Trapping Method)</u></b> The scope of work includes glue traps are place along rat runs, ceiling, dry areas and all potential breeding and harborage areas. Inspection will be carried out alternate date intervals to prevent dead or trapped rats cause any foul odour. After such treatment, a maintenance programmes will be undertaken as stated in item 3.2.	Time	\$ 800.00
<b>21.7.3.2</b>	<b><u>Maintenance (Rodenticide Baiting)</u></b> Coated coagulant rat balls used and placed in the bait stations around the office area, garbage area and fencing. The hemorrhage effect causes rats to seek water and eventually die outside its harborage. The contractor will collect all dead rats and area where they are retrieved from and will be treated with disinfecting or deodorizing agents.	Time	\$ 300.00



**BILL NO. 3**  
**ELECTRICAL WORKS**



Item No.	Description	Unit	Rate
<p><b>B3</b></p> <p><b>G</b></p>	<p><b><u>BILL NO. 3 - ELECTRICAL WORKS</u></b></p> <p><b><u>GENERAL REQUIREMENT</u></b></p> <p><b>NOTES:</b>                      Supply all labour, equipment, materials and tools including transportation to do the following repairworks to its good working conditions and to current good practice and make good to all works distributed to match the existing or to S.O's satisfaction as specified below or technically approved equivalent. All debris are to be taken to Contractors own dumping site / old fitting to be kept on site as per S.O instructions.</p> <p>The scope of work is the electrical maintenance and repair inclusive of troubleshooting, supply or replacement, installation, testing and commissioning of the electrical services. The scope of work shall include all necessary works and accessories required for a proper execution of work and proper functioning of all electrical services installation. All electrical works shall comply with the Brunei Electrical Installation Requirement (EIR) or latest IEE wiring regulations. All materials / fittings offered as per DES / DME / ABCi approved type only.</p> <p>All prices in this bill are flat and not included in the discount.</p> <p>Contractor MUST have qualified electricians registered with Department Of Electrical Services to do electrical installation and maintenance work.</p> <p>Approved and valid technical Pass Card MUST be attached together.</p> <p>The rate for the works are inclusive of necessary:</p> <ol style="list-style-type: none"> <li>1. Insurances</li> <li>2. Site supervisor and management</li> <li>3. Site Security</li> <li>4. Programme chart (contractors should make sunsequent revisions as directed by S.O)</li> <li>5. Catalogue / Samples of equipment, accessories and fittings are necessary.</li> <li>6. Preparation of shop drawing and coordination</li> <li>7. progress photographs</li> <li>8. Disconnect, dismantle and removal from site unused / damaged existing electrical cable, trunking, conduit, swiches, board, light fitting and other accessories and requirement as directed by S.O.</li> <li>9. Repaint and make good wall and ceiling causes from the removal and dismantling of existing wiring and light fitting.</li> <li>10. Prepare shop drawing as built drawing, testing and comissioning and liason with DES for approval upon completion of works</li> <li>11. All the electrical fittings, cables, switchboard and etc must be DES Approved Vendor.</li> <li>12. Warning and Signages</li> <li>13. Fire prevention</li> <li>14. All labour charges for workforce, equipment, supervisions, transportation and all necessary consumables to complete the works as per instructed by S.O</li> </ol>		



Item No.	Description	Unit	Rate
1.0	<p><b><u>SUPPLY OF NON FULL TIME ELECTRICAL WORKERS</u></b></p> <p>All prices in this bill are flat and not included in the discount</p>		
1.1	<p><b><u>PREVENTIVE MAINTENANCE &amp; SERVICE, FULL TIME STANDBY, OPERATE, ATTEND BREAKDOWN AND ON CALL</u></b></p> <p>To provide <b>NON - Full Time</b> Three (3) Technicians and Three (3) Tradesman for the period of 24 Months to carry out as per instruction by S.O on urgent work, daily basis or monthly preventative maintenance, standby or breakdown &amp; services for all the systems &amp; areas as specified on site for 24 Hours basis (including Friday, sunday, Public Holidays)</p> <p><b>Note: During office hour 8.00 am to 5.00 pm workers shall be inclusive, while after office hour or during weekend or public holiday workers are allow to be paid as per item 2.2.</b></p> <p>Work will be cover routine maintenance Such as breakdown (24hrs basis), troubleshooting &amp; repair, standby, replace all the blown out lighting, fittings and accessories as well as per S.O requirement or Clients. The contractor shall also provide fulltime ON CALL personal include with communication etc 24 hours basis for the above works.</p> <p><b>Note: Contractors shall provide standby teams for any requirements above for special events, functions, etc for the contract period of 24 Months and any requirement by OIC</b></p> <p>All workers to be provided must have valid Department of Electrical Service pass category E01 and Electrical work certificate or Electrical work experience). Please refer to specification of work for manpower qualification and working hours. This rate include charges for installation, dismantle, realign, relocate of existing items, for any items in this bill and any related works as required / instructed by OIC</p> <p>Awarded contractor should provide sufficient tools and testing equipment up to standard requirement in the particular conditions for the duration of the contract period. Allow assistance for site inspection, supervision, meeting and any related activities throughout the duration of contract period. As required on the general specification requirement. To provide proper safety facilities such as hiab crane, step ladder, scaffoldings and other size lifting facilities as required on site. All facilities will not be limited on the number of usage and numbers of installation. Contractor's should have proper safety hoisting / lifting's vehicle or related facilities which are capable to be used on every location on the site (as for this tender area). All maintenance work</p>	Monthly	Inclusive
1.2	<p><b><u>Allow for personnel as for breakdown after office hours (5.00pm), during (Friday, Sunday and Public Holiday if required by S.O only)"</u></b></p>		
1.2.1	Electrical Technicians (Gang A - for 1 person)	hour	\$ 5.00
1.2.2	Electrical Tradesman (Gang A - for 1 person)	hour	\$ 5.00
1.2.3	Electrical Technicians (Gang B- for 1 person)	hour	\$ 5.00
1.2.4	Electrical Tradesman (Gang B- for 1 person)	hour	\$ 5.00
1.2.5	Electrical Technicians (Gang C - for 1 person)	hour	\$ 5.00
1.2.6	Electrical Tradesman (Gang C - for 1 person)	hour	\$ 5.00



Item No.	Description	Unit	Rate
<b>2.0</b>	<b><u>SWITCHES</u></b>		
	<b><u>To supply, replace, install c/w connection and termination.</u></b>		
	<b><u>As approved Equivalent to DES and Best Quality</u></b>		
2.1	1 gang 1 way 5A switch	No.	\$ 5.00
2.2	2 gang 1 way 5A switch	No.	\$ 10.00
2.3	3 gang 1 way 5A switch	No.	\$ 18.00
2.4	4 gang 1 way 5A switch	No.	\$ 20.00
2.5	5 gang 1 way 5A switch	No.	\$ 25.00
2.6	1 gang 2 way 5A switch	No.	\$ 8.00
2.7	2 gang 2 way 5A switch	No.	\$ 12.00
2.8	Surface 3" x 3" blank cover plate	No.	\$ 2.00
2.9	Surface 3" x 6" blank cover plate	No.	\$ 3.00
2.10	Surface 3" x 3" mounting box	No.	\$ 2.00
2.11	Surface 3" x 6" mounting box	No.	\$ 3.00
2.12	1 gang 1 way weatherproof switch	No.	\$ 100.00
2.13	2 gang 1 way weatherproof switch	No.	\$ 150.00
2.14	Ceiling fan regulator	No.	\$ 45.00
2.15	5A Ceiling Rose	No.	\$ 6.00
2.16	Fan Hook	No.	\$ 20.00
2.17	Heavy Duty Junction box c/w silicon/ gasket	No.	\$ 45.00
2.18	500W Dimmer Switch, 600W 16 Rotary Dimmer	No.	\$ 24.00
2.19	1000W Dimmer Switch, 1000W 16 Rotary Dimmer	No.	\$ 39.00
2.20	2000W Dimmer Switch	No.	\$ 50.00
2.21	<b><u>Switch - Gold Color Type (Cover &amp; Switch)</u></b>		
2.21.1	<b><u>6A 1 Gang to 3 Gang Switch</u></b>		
2.21.1.1	1 Gang Switch Gold Plate	No.	\$ 25.00
2.21.1.2	2 Gang Switch Gold Plate	No.	\$ 29.00
2.21.1.3	3 Gang Switch Gold Plate	No.	\$ 33.00
2.21.2	<b><u>6A 4 Gang to 5 Gang Switch</u></b>		
2.21.2.1	Switch 20A Gold Plate	No.	\$ 40.00
2.21.2.3	20A Water Heater c/w pilot Lamp Switch	No.	\$ 30.00
2.21.3	<b><u>500W to 15000W Dimmer Switch</u></b>		
2.21.3.1	500W Rotary Dimmer c/w Gold Plate	No.	\$ 73.00
2.21.3.2	1500W Rotary Dimmer c/w Gold Plate	No.	\$ 94.00
<b>3.0</b>	<b><u>SWITCH SOCKET OUTLET (APPROVED TYPE ONLY)</u></b>		
	<b><u>To supply and replace faulty part c/w connection and termination.</u></b>		
3.1	1x13A switch socket outlet	No.	\$ 5.20
3.2	1 x 13A metalclad switch socket outlet	No.	\$ 13.00
3.3	2 x 13A switch socket outlet	No.	\$ 9.75
3.4	2 x 13A metalclad switch socket outlet	No.	\$ 20.00
3.5	1 x 13A Weatherproof Switch socket Outlet	No.	\$ 36.00
3.6	2 x 13A Weatherproof Switch Socket Outlet	No.	\$ 49.00
3.7	1x15A switch socket outlet	No.	\$ 15.00
3.8	1 x 15A metalclad switch socket outlet	No.	\$ 30.00
3.9	20A double pole switch	No.	\$ 28.00
3.10	20A metalclad switch socket outlet	No.	\$ 45.00
3.11	20A water heater switch	No.	\$ 28.00



Item No.	Description	Unit	Rate
3.12	13A Fuse Connection Unit	No.	\$ 25.00
3.13	45A Cooker Control Unit	No.	\$ 100.00
3.14	20A DP Isolator	No.	\$ 17.00
3.15	32A DP Isolator	No.	\$ 22.00
3.16	20A SPN Isolator	No.	\$ 85.00
3.17	30A SPN Isolator	No.	\$ 150.00
3.18	20A TPN Isolator	No.	\$ 150.00
3.19	32A / 35A TPN Isolator	No.	\$ 200.00
3.20	55A TPN Isolator	No.	\$ 300.00
3.21	16A SP 24HRS Spring reserve timer	No.	\$ 180.00
3.22	6A – 10 A Photocell	No.	\$ 120.00
3.23	13A 3 Pin Plug Top	No.	\$ 5.00
3.24	15A 3 Pin Plug Top	No.	\$ 5.00
3.25	1G TV outlet	No.	\$ 5.00
3.26	1G Telephone Outlet	No.	\$ 7.40
3.27	1G Data Outlet Cat.6	No.	\$ 10.80
3.28	Doorbell Switch	No.	\$ 4.80
<b>4.0</b>	<b><u>GENERAL LIGTHING POINT &amp; POWER POINT</u></b>		
4.1	Wiring lighting point using 3 x 1.5mm2 PVC cable in conduit / casing c/w 5A switch	No.	\$ 45.00
4.2	Wiring Fan point using 3 x 1.5mm2 PVC cable in conduit / casing c/w 5A switch, fan hook when necessary	No.	\$ 45.00
4.3	Wiring emergency ligthing point using 3 x 1.5mm2 PVC cable in conduit / casing	No.	\$ 30.00
4.4	Wiring Keluar Sign point using 3 x 1.5mm2 PVC cable in conduit / casing	No.	\$ 30.00
4.5	Wiring exhaust fan/wall fan using 3 x 1.5mm2 PVC cable in conduit / casing c/w 5A switch	No.	\$ 45.00
4.6	Wiring heavy duty wall fan & exhaust fan using 3 x 2.5mm2 PVC cable in PVC conduit / casing c/w 20A switch	No.	\$ 100.00
4.7	Wiring indoor / outdoor floodlight point using 3 x 2.5mm2 PVC cable in conduit / casing	No.	\$ 80.00
4.8	Wiring high bay point using 3 x 2.5mm2 PVC cable in conduit / casing	No.	\$ 100.00
4.9	Wiring Lighting point with photocell using 3 x 1.5mm2 PVC cable in conduit / casing	No.	\$ 140.00
4.10	Wiring Lighting point with timer using 3 x 1.5mm2 PVC cable in conduit / casing	No.	\$ 140.00
4.11	Wiring power point using 3 x 2.5mm2 PVC cable in PVC conduit / casing c/w 1 x 13A S.S.O	No.	\$ 70.00
4.12	Wiring power point using 3 x 2.5mm2 PVC cable in PVC conduit / casing c/w 2 x 13A S.S.O	No.	\$ 80.00
4.13	Wiring a/c point using 3 x 4mm2 PVC cable in PVC conduit / casing c/w 20A DP switch	No.	\$ 200.00
4.14	Wiring Cooker Point using 3 x 6mm2 PVC cable in PVC conduit / casing c/w cooker unit	No.	\$ 300.00
4.15	Wiring 20A SPN isolator point using 3 x 4mm2 PVC cable in PVC conduit / casing c/w 20A SPN isolator	No.	\$ 300.00



Item No.	Description	Unit	Rate
4.16	Wiring 32A/35A TPN isolator point using 5 x 4mm2 PVC cable in PVC conduit / casing c/w 30A/35A TPN isolator	No.	\$ 450.00
4.17	Wiring 32A SPN isolator point using 3 x 6mm2 PVC cable in PVC conduit / casing c/w 32A SPN isolator	No.	\$ 400.00
4.18	Wiring power point using 3 x 2.5mm2 PVC cable in conduit / casing c/w 1 x 13A S.S.O weatherproof	No.	\$ 200.00
4.19	Wiring power point using 3 x 2.5mm2 PVC cable in conduit / casing c/w 2 x 13A S.S.O weatherproof	No.	\$ 230.00
4.20	Wiring lighting point using 3 x 1.5mm2 PVC cable in conduit / casing c/w 5A weatherproof switch	No.	\$ 120.00
4.21	Wiring lighting point using 3 x 1.5mm2 PVC cable in conduit / casing c/w 2Gang- 5A weatherproof switch	No.	\$ 160.00
4.22	Wiring water heater point using 3 x 4mm2 PVC cable in conduit/casing c/w heater switch and 13A fuse connection unit.	No.	\$ 230.00
4.23	Wiring water pump point using 3 x 2.5mm2 PVC cable in conduit / casing c/w 20 DP switch	No.	\$ 200.00
4.24	Wiring water pump point using 3 x 2.5mm2 PVC cable in conduit / casing c/w 20A SPN weatherproof isolator	No.	\$ 250.00
4.25	Wiring 3 phase water pump using 5 x 6mm2 PVC cable in conduit / casing c/w 35A TPN weatherproof isolator	No.	\$ 600.00
4.26	Wiring telephone point c/w 2 pair cat-5 cable in PVC conduit / casing c/w telephone outlet.	No.	\$ 120.00
4.27	Wiring telephone point c/w 4 pair cat-5 cable in PVC conduit / casing c/w telephone outlet.	No.	\$ 170.00
4.28	Wiring telephone point c/w 6 pair cat-5 cable in PVC conduit / casing c/w telephone outlet.	No.	\$ 200.00
4.29	Wiring TV point c/w RG59 TV Cable in PVC conduit/casing c/w TV outlet	No.	\$ 200.00
4.30	Wiring bell	No.	\$ 45.00
4.31	Wiring emergency button using 2 x 1.5mm2 PVC cable in PVC casing / conduit c/w emergency push button, contactor and other necessary accessories	No.	\$ 300.00
4.32	Supply and installation of 2C/2.00mm2 Twin Flat waterproof Cable for decorative lightings	Mtr	\$ 4.00
4.33	<u>To supply and install PVC insulated Cable for the following sizes:</u>		
4.33.1	1C/1.5mm2	Mtr	\$ 1.00
4.33.2	1C/2.5mm2	Mtr	\$ 1.50
4.33.3	1C/4.0mm2	Mtr	\$ 2.00
4.33.4	1C/6.0mm2	Mtr	\$ 2.50



Item No.	Description	Unit	Rate
<b>5.0</b>	<b><u>TO CHECK, SERVICE AND REPLACE FAULTY PART ACCESSORIES OF LIGHT FITTING / FAN / OTHERS</u></b>		
<b>5.1</b>	<u>Clear ordinary 240V inside frosted or incandescent lamp with E27 or B22 and candle lamp.</u>		
<b>5.1.1</b>	15W	No.	\$ 6.00
<b>5.1.2</b>	25W	No.	\$ 6.00
<b>5.1.3</b>	40W	No.	\$ 6.00
<b>5.1.4</b>	60W	No.	\$ 6.00
<b>5.1.5</b>	75W	No.	\$ 8.00
<b>5.1.6</b>	100W	No.	\$ 8.00
<b>5.2</b>	<u>Clear ordinary 240V inside frosted or incandescent lamp with E14 base candle lamp</u>		
<b>5.2.1</b>	15W	No.	\$ 10.00
<b>5.2.2</b>	25W	No.	\$ 10.00
<b>5.2.3</b>	40W	No.	\$ 10.00
<b>5.3</b>	<u>12V halogen bulb with 2 pin cable</u>		
<b>5.3.1</b>	20W	No.	\$ 4.50
<b>5.3.2</b>	50W	No.	\$ 12.00
<b>5.4</b>	<u>Colour bulbs 240V 50Hz with E27 or B22 Base</u>		
<b>5.4.1</b>	5W	No.	\$ 3.00
<b>5.4.2</b>	15W	No.	\$ 4.00
<b>5.5</b>	<u>LED Colour bulb with E27 or B22 base</u>		
<b>5.5.1</b>	1W - 3W	No.	\$ 2.50
<b>5.5.2</b>	4W - 5W	No.	\$ 5.00
<b>5.5.3</b>	6W - 10W	No.	\$ 7.00
<b>5.6</b>	<u>LED light bulb c/w necessary accessories and modification if require</u>		
<b>5.6.1</b>	1W LED bulb with E27 or B22 base	No.	\$ 1.80
<b>5.6.2</b>	3W-4W LED bulb with E27 or B22 base	No.	\$ 3.00
<b>5.6.3</b>	8W LED bulb with E27 or B22 base	No.	\$ 8.00
<b>5.6.4</b>	8W 2 pin LED bulb	No.	\$ 8.00
<b>5.6.5</b>	15W 2 pin LED bulb	No.	\$ 15.00
<b>5.6.6</b>	9W LED bulb (any type tube / stick etc)	No.	\$ 10.00
<b>5.6.7</b>	10W LED bulb (any type tube / stick etc)	No.	\$ 11.00
<b>5.6.8</b>	12W LED bulb (any type tube / stick etc)	No.	\$ 15.00
<b>5.6.9</b>	15W - 20W LED bulb (any type tube / stick etc)	No.	\$ 25.00
<b>5.6.10</b>	23W - 25W LED bulb (any type tube / stick etc)	No.	\$ 30.00
<b>5.7</b>	<u>Reflector lamp 240V R50 type with E14 base</u>		
<b>5.7.1</b>	25W	No.	\$ 11.00
<b>5.7.2</b>	40W	No.	\$ 12.00
<b>5.8</b>	<u>R63 type with E27 or B22 base</u>		
<b>5.8.1</b>	40W	No.	\$ 10.00
<b>5.8.2</b>	60W	No.	\$ 10.00
<b>5.8.3</b>	75W	No.	\$ 11.00
<b>5.8.4</b>	100W	No.	\$ 12.50



Item No.	Description	Unit	Rate
<b>5.9</b>	<u>PAR 38 spot and pressed glass reflector lamp 240V 50Hz with E27 base</u>		
<b>5.9.1</b>	13W	No.	\$ 19.00
<b>5.9.2</b>	60W	No.	\$ 28.00
<b>5.9.3</b>	80W	No.	\$ 60.00
<b>5.9.4</b>	120W	No.	\$ 70.00
<b>5.10</b>	<u>Tungsten double end type halogen lamp 240V</u>		
<b>5.10.1</b>	70W	No.	\$ 32.00
<b>5.10.2</b>	100W	No.	\$ 35.00
<b>5.10.3</b>	150W	No.	\$ 45.00
<b>5.10.4</b>	300W	No.	\$ 55.00
<b>5.11</b>	<u>2 Pin PLC daylight / warm white compact lamp</u>		
<b>5.11.1</b>	9W	No.	\$ 15.00
<b>5.11.2</b>	11W	No.	\$ 15.00
<b>5.11.3</b>	13W	No.	\$ 16.00
<b>5.11.4</b>	18W	No.	\$ 20.00
<b>5.11.5</b>	26W	No.	\$ 30.00
<b>5.12</b>	<u>PLC daylight / warm white compact lamp with 4 pin base</u>		
<b>5.12.1</b>	13W	No.	\$ 15.00
<b>5.12.2</b>	18W	No.	\$ 20.00
<b>5.12.3</b>	26W	No.	\$ 30.00
<b>5.12.4</b>	42W	No.	\$ 35.00
<b>5.13</b>	<u>Fluorescent tube 240v 50HZ</u>		
<b>5.13.1</b>	18W	No.	\$ 9.00
<b>5.13.2</b>	36W	No.	\$ 9.00
<b>5.13.3</b>	65W	No.	\$ 10.00
<b>5.14</b>	<u>LED fluorescent tube 240V 50HZ</u>		
<b>5.14.1</b>	8W-9W	No.	\$ 23.00
<b>5.14.2</b>	13 -18W	No.	\$ 25.00
<b>5.15</b>	18-65W fluorescent S10 starter	No.	\$ 3.50
<b>5.16</b>	18-65W fluorescent ballast 240V 50HZ	No.	\$ 15.00
<b>5.17</b>	T5 14 - 28W fluorescent tube	No.	\$ 20.00
<b>5.18</b>	T5 14 - 28W fluorescent ballast	No.	\$ 35.00
<b>5.19</b>	Electronic Transformer for halogen lamp input : 240V 50HZ/60HZ Output : 12V 20-50W	No.	\$ 50.00
<b>5.20</b>	<u>PLC 240V 50HZ ballast</u>		
<b>5.20.1</b>	11W	No.	\$ 10.00
<b>5.20.2</b>	13W	No.	\$ 12.00
<b>5.20.3</b>	18W	No.	\$ 15.00
<b>5.20.4</b>	26W	No.	\$ 20.00
<b>5.21</b>	Fluorescent lamp holder for compact, lamp 240V , 50 HZ	No.	\$ 10.00
<b>5.22</b>	Fluorescent starter holder for compact, lamp 240V , 50 HZ	No.	\$ 10.00
<b>5.23</b>	E27 lamp holder base	No.	\$ 10.00



Item No.	Description	Unit	Rate
5.24	E40 lamp holder base	No.	\$ 20.00
5.25	B22 lamp holder base	No.	\$ 10.00
5.26	2 pin PLC holder	No.	\$ 10.00
5.27	4 pin PLC holder	No.	\$ 12.00
5.28	2 Pin 50W halogen holder	No.	\$ 10.00
5.29	<u>E27/B22 energy effective prismatic SL lamp 240V 50HZ</u>		
5.29.1	9W	No.	\$ 30.00
5.29.2	13W	No.	\$ 40.00
5.29.3	18W	No.	\$ 45.00
5.29.4	26W	No.	\$ 50.00
5.30	<u>E27/B22 energy saver bulb cool daylight / warm white lamp 240V 50HZ</u>		
5.30.1	9W	No.	\$ 20.00
5.30.2	11W	No.	\$ 20.00
5.30.3	13W	No.	\$ 20.00
5.30.4	18W	No.	\$ 30.00
5.30.5	23W	No.	\$ 35.00
5.30.6	35W	No.	\$ 50.00
5.30.7	55W	No.	\$ 60.00
5.31	16W 2D lamp with 2 pin cap and built in starter switch	No.	\$ 30.00
5.32	28W 2D with 4 pin cap	No.	\$ 35.00
5.33	Ballast for 16W 2D lamp	No.	\$ 18.00
5.34	Ballast for 28W 2D lamp	No.	\$ 23.00
5.35	Capacitor for 16W/28W 2D lamp	No.	\$ 18.00
5.36	Starter for 16/28W 2D lamp	No.	\$ 8.00
5.37	Lamp Holder for 16/28W 2D lamp	No.	\$ 15.00
5.38	<u>Circular fluorescent tube</u>		
5.38.1	22W	No.	\$ 18.00
5.38.2	32W	No.	\$ 25.00
5.38.3	40W	No.	\$ 25.00
5.39	Circular fluorescent tube holder	No.	\$ 12.00
5.40	<u>High pressure SON/T lamp 240V, 50HZ</u>		
5.40.1	70W	No.	\$ 48.00
5.40.2	150W	No.	\$ 55.00
5.40.3	250W	No.	\$ 70.00
5.40.4	400W	No.	\$ 85.00
5.41	<u>Metal halide lamp 240V, 50HZ</u>		
5.41.1	70W	No.	\$ 45.00
5.41.2	150W	No.	\$ 60.00



Item No.	Description	Unit	Rate
5.41.3	250W	No.	\$ 70.00
5.41.4	400W	No.	\$ 80.00
5.41.5	1000W	No.	\$ 250.00
5.41.6	2000W	No.	\$ 350.00
5.42	<u>High mecury lamp 240V, 50HZ</u>		
5.42.1	150W	No.	\$ 60.00
5.42.2	250W	No.	\$ 80.00
5.42.3	100W	No.	\$ 100.00
5.43	<u>Ignitor for high pressure lamp and metal halide lamp</u>		
5.43.1	70W - 400W	No.	\$ 28.00
5.43.2	1000W	No.	\$ 85.00
5.43.3	2000W	No.	\$ 150.00
5.44	<u>Ballast for high pressure lamp</u>		
5.44.1	70W	No.	\$ 50.00
5.44.2	150W	No.	\$ 60.00
5.44.3	250W	No.	\$ 90.00
5.44.4	400W	No.	\$ 100.00
5.45	<u>Ballast for metal halide lamp</u>		
5.45.1	70W	No.	\$ 50.00
5.45.2	150W	No.	\$ 60.00
5.45.3	250W	No.	\$ 90.00
5.45.4	400W	No.	\$ 100.00
5.45.5	1000W	No.	\$ 250.00
5.45.6	2000W	No.	\$ 350.00
5.46	15UF Capacitor for 70W floodlight	No.	\$ 38.00
5.47	20UF Capacitor for 150W floodlight	No.	\$ 45.00
5.48	25UF Capacitor for 250W floodlight	No.	\$ 48.00
5.49	32UF Capacitor for 400W floodlight	No.	\$ 50.00
5.50	50 - 100UF Capacitor for 1000W floodlight	No.	\$ 100.00
5.51	50-100UF Capacitor for 2000W floodlight	No.	\$ 200.00
5.52	1 tube electronic ballast	No.	\$ 35.00
5.53	2 tube electronic ballast	No.	\$ 50.00
5.54	3 tube electronic ballast	No.	\$ 70.00
5.55	4 tube electronic ballast	No.	\$ 100.00
5.56	1.8UF - 3UF fan capacitor	No.	\$ 10.00
5.57	<u>Decorative &amp; Other Type of Bulb</u>		
5.57.1	LED twin Rope Light x 100 metres	Roll	\$ 260.00
5.57.2	LED twin Rope light per meter	Mtr	\$ 3.00



Item No.	Description	Unit	Rate
<b>6.0</b>	<b><u>To supply and install PVC/SWA/PVC , XLPE/SWA/PVC Cable for the following sizes</u></b>		
6.1	2C/1.5mm2	Mtr	\$ 10.00
6.2	2C/2.5mm2	Mtr	\$ 15.00
6.3	2C/4mm2	Mtr	\$ 18.00
6.4	2C/6mm2	Mtr	\$ 20.00
6.5	2C/10mm2	Mtr	\$ 22.00
6.6	2C/16mm2	Mtr	\$ 25.00
6.7	2C/25mm2	Mtr	\$ 30.00
6.8	2C/35mm2	Mtr	\$ 33.00
6.9	4C/2.5mm2	Mtr	\$ 16.00
6.1	4C/4mm2	Mtr	\$ 19.00
6.11	4C/6mm2	Mtr	\$ 21.00
6.12	4C/10mm2	Mtr	\$ 27.00
6.13	4C/16mm2	Mtr	\$ 36.00
6.14	4C/25mm2	Mtr	\$ 48.00
6.15	4C/35mm2	Mtr	\$ 60.00
6.16	4C/50mm2	Mtr	\$ 80.00
6.17	4C/70mm2	Mtr	\$ 90.00
6.18	4C/95mm2	Mtr	\$ 120.00
6.19	4C/120mm2	Mtr	\$ 145.00
6.20	4C/150mm2	Mtr	\$ 170.00
6.21	4C/185mm2	Mtr	\$ 220.00
6.22	4C/240mm2	Mtr	\$ 295.00
6.23	1C/300mm2	Mtr	\$ 115.00
6.24	1C/400mm2	Mtr	\$ 160.00
6.25	1C/500mm2	Mtr	\$ 200.00
6.26	<u>To supply and install XLPE/AWA/PVC cable for the following sizes:</u>		
6.26.1	1C/300mm2	Mtr	\$ 30.00
6.26.2	1C/400m2	Mtr	\$ 180.00
6.26.3	1C/500m2	Mtr	\$ 220.00
6.27	<u>To supply and install LT straight through joint PVC or XLPE armoured cable for the following sizes:-</u>		
6.27.1	Up to 25mm2/2C	No.	\$ 150.00
6.27.2	Up to 25mm2/4C	No.	\$ 180.00
6.27.3	35 to 70mm2/4C	No.	\$ 250.00
6.27.4	95 to 150mm2/4C	No.	\$ 800.00
6.27.5	185 to 300mm2 /4C	No.	\$ 1,000.00
6.27.6	300 to 500mm2 /1C	No.	\$ 1,300.00
6.28	To hack and break existing pavement c/w encased mass concrete surround	Mtr	\$ 120.00
6.29	To cut and digging existing pavement	Mtr	\$ 100.00
6.30	<u>To Provide UPVC pipe sleeves</u>		
6.30.1	50mm2 dia	Mtr	\$ 40.00
6.30.2	100mm2 dia. Ditto	Mtr	\$ 78.00
6.30.3	150mm2 dia. Ditto	Mtr	\$ 90.00
6.31	Excavation of cable trench approx. 750mm wide x 750mm deep of soft ground c/w backfilling and making good	Mtr	\$ 15.00



Item No.	Description	Unit	Rate
<b>6.32</b>	<u>Supply and installation of PVC cable in metal trunking . (Metal Trunking separate)</u>		
<b>6.32.1</b>	2 x 1C/10mm <sup>2</sup> + 10mm <sup>2</sup> ECC cable	Mtr	\$ 10.00
<b>6.32.2</b>	2 x 1C/16mm <sup>2</sup> + 10mm <sup>2</sup> ECC cable	Mtr	\$ 16.00
<b>6.32.3</b>	2 x 1C/25mm <sup>2</sup> + 16mm <sup>2</sup> ECC cable	Mtr	\$ 24.00
<b>6.32.4</b>	2 x 1C/35mm <sup>2</sup> + 25mm <sup>2</sup> ECC cable	Mtr	\$ 30.00
<b>6.32.5</b>	2 x 1C/50mm <sup>2</sup> + 35mm <sup>2</sup> ECC cable	Mtr	\$ 40.00
<b>6.32.6</b>	4 x 1C/10mm <sup>2</sup> + 10mm <sup>2</sup> ECC cable	Mtr	\$ 30.00
<b>6.32.7</b>	4 x 1C/16mm <sup>2</sup> + 10mm <sup>2</sup> ECC cable	Mtr	\$ 40.00
<b>6.32.8</b>	4 x 1C/25mm <sup>2</sup> + 16mm <sup>2</sup> ECC cable	Mtr	\$ 52.00
<b>6.32.9</b>	4 x 1C/35mm <sup>2</sup> + 25mm <sup>2</sup> ECC cable	Mtr	\$ 64.00
<b>6.32.10</b>	4 x 1C/50mm <sup>2</sup> + 35mm <sup>2</sup> ECC cable	Mtr	\$ 85.00
<b>6.32.11</b>	4 x 1C/70mm <sup>2</sup> + 50mm <sup>2</sup> ECC cable	Mtr	\$ 95.00
<b>6.32.12</b>	4 x 1C/95mm <sup>2</sup> + 70mm <sup>2</sup> ECC cable	Mtr	\$ 130.00
<b>6.32.13</b>	4 x 1C/35mm <sup>2</sup> + 95mm <sup>2</sup> ECC cable	Mtr	\$ 150.00
<b>6.33</b>	<u>Supply and installation of PVC insulated (GREEN) Earth Wire</u>		
<b>6.33.1</b>	1 x 16mm <sup>2</sup>	Mtr	\$ 10.00
<b>6.33.2</b>	1 x 25mm <sup>2</sup>	Mtr	\$ 15.00
<b>6.33.3</b>	1 x 35mm <sup>2</sup>	Mtr	\$ 20.00
<b>6.33.4</b>	1 x 50mm <sup>2</sup>	Mtr	\$ 25.00
<b>6.33.5</b>	1 x 70mm <sup>2</sup>	Mtr	\$ 35.00
<b>6.33.6</b>	1 x 95mm <sup>2</sup>	Mtr	\$ 45.00
<b>6.33.7</b>	1 x 120mm <sup>2</sup>	Mtr	\$ 60.00
<b>6.34</b>	<u>Supply and installation of metal trunking / PVC trunking c/w bracket support</u>		
<b>6.34.1</b>	50mm x 25mm	Mtr	\$ 25.00
<b>6.34.2</b>	50mm x 50mm	Mtr	\$ 26.00
<b>6.34.3</b>	75mm x 50mm	Mtr	\$ 30.00
<b>6.34.4</b>	100mm x 50mm	Mtr	\$ 35.00
<b>6.34.5</b>	100mm x 75mm	Mtr	\$ 40.00
<b>6.34.6</b>	100mm x 100mm	Mtr	\$ 48.00
<b>6.34.7</b>	75mm x 150mm	Mtr	\$ 60.00
<b>6.35</b>	<u>Supply and installation of cable tray c/w tray earth link and other accessories c/w bracket support</u>		
<b>6.35.1</b>	50 mm	Mtr	\$ 10.00
<b>6.35.2</b>	75 mm	Mtr	\$ 18.00
<b>6.35.3</b>	100 mm	Mtr	\$ 25.00
<b>6.35.4</b>	150 mm	Mtr	\$ 33.00
<b>6.35.5</b>	200 mm	Mtr	\$ 40.00
<b>6.35.6</b>	250 mm	Mtr	\$ 52.00
<b>6.36</b>	Disconnect and dismantle and remove existing, underground cable trunking, cable tray	Mtr	\$ 15.00
<b>6.37</b>	To check, rectify, mega faulty of cable	Lot	\$ 450.00
<b>6.38</b>	Supply and install main 'Earth' electrode 16mm dia x 3.6m copper clad steel core rod c/w brass copper clamp, identification tag with the word 'ELECTRICAL EARTH - DO NOT REMOVE' and hot dip galvanised inspection pit fitted with hinged cover.	Lot	\$ 400.00
<b>6.39</b>	Supply and install UPVC cover plate flat with embossed raised lettering c/w interlocking device 'DANGER LV CABLE'	No.	\$ 2.80



Item No.	Description	Unit	Rate
<b>6.40</b>	<u>Supply and install copper (Bare and tinned) to BS EN 13601 / IEC 62561-2</u>		
<b>6.40.1</b>	20 x 3mm	Kg	\$ 29.00
<b>6.40.2</b>	25 x 2mm	Kg	\$ 32.00
<b>6.40.3</b>	25 x 3mm	Kg	\$ 35.00
<b>6.40.4</b>	31 x 3mm	Kg	\$ 37.00
<b>6.40.5</b>	38 x 3mm	Kg	\$ 39.00
<b>6.40.6</b>	50 x 3mm	Kg	\$ 42.00
<b>6.41</b>	<u>Supply and install Solid Copper Earth Rod</u>		
<b>6.41.1</b>	14mm dia x 1200mm	No.	\$ 8.00
<b>6.41.2</b>	14mm dia x 1500mm	No.	\$ 9.00
<b>6.41.3</b>	16mm dia x 1200mm	No.	\$ 10.00
<b>6.41.4</b>	16mm dia x 1500mm	No.	\$ 11.00
<b>6.41.5</b>	20mm dia x 1200mm	No.	\$ 15.00
<b>6.41.6</b>	20mm dia x 1500mm	No.	\$ 16.00
<b>6.42</b>	<u>Supply and install Earth Tape Clamp</u>		
<b>6.42.1</b>	25 x 25mm	No.	\$ 1.50
<b>6.42.2</b>	30 x 3mm	No.	\$ 1.70
<b>6.42.3</b>	40 x 4mm	No.	\$ 1.90
<b>6.42.4</b>	50 x 5mm	No.	\$ 2.75
<b>6.43</b>	supply and install copper Tape Clip	No.	\$ 7.20
<b>7.0</b>	<b><u>DISTRIBUTION BOARD COMPONENTS AND OTHER ACCESSORIES</u></b>		
	<u>Supply and installation:</u>		
<b>7.1</b>	6A - 32A MCB's	No.	\$ 15.00
<b>7.2</b>	40A 2P RCD/30MA	No.	\$ 120.00
<b>7.3</b>	63A 2P RCD/30MA	No.	\$ 150.00
<b>7.4</b>	100A 2P RCD/30MA	No.	\$ 180.00
<b>7.5</b>	40A 4P RCD/30MA	No.	\$ 180.00
<b>7.6</b>	63A 4P RCD/30MA	No.	\$ 210.00
<b>7.7</b>	100A 4P RCD/30MA	No.	\$ 250.00
<b>7.8</b>	100A 4P RCD/100MA	No.	\$ 250.00
<b>7.9</b>	Earth leakage relay c/w shuntrip	No.	\$ 900.00
<b>7.1</b>	Earth fault relay c/w shuntrip	No.	\$ 1,200.00
<b>7.11</b>	Overcurrent relay	No.	\$ 1,800.00
<b>7.12</b>	Ammeter	No.	\$ 100.00
<b>7.13</b>	Voltmeter	No.	\$ 100.00
<b>7.14</b>	Ammeter selector switch 6 position rotary switch	No.	\$ 150.00
<b>7.15</b>	Voltmeter selector switch 6 position rotary switch	No.	\$ 150.00
<b>7.16</b>	10A 2 pole MCB (10KA)	No.	\$ 80.00
<b>7.17</b>	20A 2 pole MCB (10KA)	No.	\$ 90.00
<b>7.18</b>	30A 2 pole MCB (10KA)	No.	\$ 100.00
<b>7.19</b>	40A 2 pole MCB (10KA)	No.	\$ 120.00
<b>7.2</b>	63A 2 pole MCB (10KA)	No.	\$ 160.00
<b>7.21</b>	100A - 125A 2 pole MCB (10KA)	No.	\$ 200.00
<b>7.22</b>	40A TPN MCCB (10KA)	No.	\$ 180.00
<b>7.23</b>	63A TPN MCCB (10KA)	No.	\$ 230.00
<b>7.24</b>	100A - 125A TPN MCCB (25KA)	No.	\$ 500.00
<b>7.25</b>	150A TPN MCCB (25KA)	No.	\$ 800.00
<b>7.26</b>	200A TPN MCCB (25KA)	No.	\$ 850.00
<b>7.27</b>	250A TPN MCCB (25KA)	No.	\$ 950.00



Item No.	Description	Unit	Rate
7.28	300A TPN MCCB (36KA)	No.	\$ 1,350.00
7.29	400A TPN MCCB (50KA)	No.	\$ 1,500.00
7.30	500A TPN MCCB (50KA)	No.	\$ 2,000.00
7.31	600A TPN MCCB (50KA)	No.	\$ 3,500.00
7.32	800A TPN MCCB (50KA)	No.	\$ 4,500.00
7.33	1000A ACB (50KA)	No.	\$ 9,500.00
7.34	2000A ACB (50KA)	No.	\$ 18,000.00
7.35	2500A ACB (50KA)	No.	\$ 25,000.00
7.36	Metal enclosure for all type MCCB c/w neutral link	No.	\$ 600.00
7.37	60A Neutral Link with insulated base	No.	\$ 20.00
7.38	100A Neutral Link with insulated base	No.	\$ 30.00
7.39	63A Cut Out fuse with base	No.	\$ 100.00
7.40	100A Cut out fuse with base	No.	\$ 120.00
7.41	63A TPN sealing chamber cut-out fuse	No.	\$ 300.00
7.42	100A TPN sealing chamber cut-out fuse	No.	\$ 350.00
7.43	Cable lug 4mm <sup>2</sup> -16mm <sup>2</sup>	No.	\$ 15.00
7.44	Cable lug 16mm <sup>2</sup> -35mm <sup>2</sup>	No.	\$ 25.00
7.45	Cable lug 50mm <sup>2</sup> -120mm <sup>2</sup>	No.	\$ 40.00
7.46	Cable lug 150mm <sup>2</sup> -240mm <sup>2</sup>	No.	\$ 60.00
7.47	<u>Magnetic Contactors</u> <u>*As Approved Equivalent to DES and Best Quality</u>		
7.47.1	20A 3 pole Contactor	No.	\$ 95.00
7.47.2	40A 3 pole Contactor	No.	\$ 120.00
7.47.3	63A 3 pole Contactor	No.	\$ 150.00
7.47.4	80A 3 pole Contactor	No.	\$ 200.00
7.47.5	100A 3 pole Contactor	No.	\$ 300.00
7.47.6	115A 3 pole Contactor	No.	\$ 500.00
7.47.7	18A 4 pole Contactor	No.	\$ 39.00
7.47.8	25A 4 Pole Contactor	No.	\$ 60.00
7.47.9	32A 4 Pole Contactor	No.	\$ 69.00
7.47.10	38A 4 Pole Contactor	No.	\$ 104.00
7.47.11	50A 4 Pole Contactor	No.	\$ 165.00
7.47.12	65A 4 Pole Contactor	No.	\$ 204.00
7.47.13	10A - 20A 2 Pole Contactor	No.	\$ 26.00
7.47.14	Above 32A 2Pole Contactor	No.	\$ 40.00
7.47.15	2A - 5A HRC Fuse link	No.	\$ 20.00
7.47.16	60A HRC Fuse Link	No.	\$ 50.00
7.47.17	100A HRC Fuse Link	No.	\$ 80.00
7.47.18	100A Copper busbar for 1 pole MCB	No.	\$ 38.00
7.48	<u>TPN MCCB in metal enclosure Distribution board c/w 3xRCD/30MA and MCB</u>		
7.48.1	40A TPN MCCB 18 Ways	No.	\$ 480.00
7.48.2	63A TPN MCCB 18 ways	No.	\$ 700.00
7.48.3	100A TPN 18 ways	No.	\$ 1,000.00
7.49	<u>TPN MCCB in metal enclosure Distribution board c/w 3xRCD/30MA and MCB</u>		
7.49.1	40A TPN MCCB 21 Ways	No.	\$ 550.00
7.49.2	63A TPN MCCB 21 ways	No.	\$ 800.00
7.49.3	100A TPN MCCB 21 ways	No.	\$ 1,300.00
7.49.4	40A TPN MCCB 24 ways	No.	\$ 680.00
7.49.5	63A TPN MCCB 24 ways	No.	\$ 1,000.00
7.49.6	63A TPN MCCB 36 ways	No.	\$ 1,500.00
7.49.7	100A TPN MCCB 24 ways	No.	\$ 1,800.00
7.49.8	100A TPN MCCB 36 ways	No.	\$ 2,000.00



Item No.	Description	Unit	Rate
7.49.9	150A TPN MCCB 24 ways	No.	\$ 3,000.00
7.49.10	150A TPN MCCB 36 ways	No.	\$ 3,200.00
7.50	<u>SPN MCCB in metal enclosure Distribution Board c/w 1 no. RCD/30MA and MCB's</u>		
7.50.1	40A SPN MCCB - 8 ways	No.	\$ 380.00
7.50.2	60A SPN MCCB - 8 ways	No.	\$ 480.00
7.50.3	40A SPN MCCB -10 ways	No.	\$ 420.00
7.50.4	63A SPN MCCB - 10 ways	No.	\$ 580.00
7.50.5	40A SPN MCCB - 12 ways	No.	\$ 550.00
7.50.6	63A SPN MCCB - 12 ways	No.	\$ 680.00
7.51	<u>TPN MCCB in metal enclosure Distribution Board c/w 3 x RCD / 30MA and MCB's, timer, photocell, contactor, 2A fuse</u>		
7.51.1	40A TPN MCCB - 18 ways	No.	\$ 850.00
7.51.2	63A TPN MCCB - 18 ways	No.	\$ 1,500.00
7.51.3	63A TPN MCCB - 24 ways	No.	\$ 2,000.00
7.51.4	63A TPN MCCB - 36 ways	No.	\$ 2,200.00
7.51.5	40A TPN MCCB - 24 ways	No.	\$ 1,300.00
7.51.6	100A TPN MCCB - 24 ways	No.	\$ 3,300.00
7.51.7	100A TPN MCCB - 36 ways	No.	\$ 3,500.00
7.51.8	40A SPN MCCB - 10 ways	No.	\$ 680.00
7.51.9	63A SPN MCCB - 10 ways	No.	\$ 950.00
7.51.10	40A SPN MCCB - 12 ways	No.	\$ 1,000.00
7.51.11	63A SPN MCCB - 12 ways	No.	\$ 1,200.00
7.52	CT Meter 200A to 1200A liase with DES	No.	\$ 4,000.00
7.53	Single Phase Prepaid Meter liase with DES	No.	\$ 500.00
7.54	Three Phase Prepaid Meter liase with DES	No.	\$ 800.00
7.55	<u>Digital Type Trip Unit for ACB incorporated multi functional time setting and multi functional curve setting for IDMTL Earth Fault Relay and IDMTL Overcurrent Relay, include program as per site condition, modification, connection of all control tray and shunt trip coil c/w necessary works and accesories required.</u>		
7.55.1	For ACB less than 1600A	No.	\$ 14,000.00
7.55.2	For ACB more than 1800A	No.	\$ 20,000.00
7.56	Padlock and chain for main switch room / transformer room	No.	\$ 150.00
7.57	Standard Electrical Safety Signages	No.	\$ 150.00
7.58	<u>New LED LIGHT INCOMING AND OUTGOING INDICATOR.</u> To supply new standard approved LED light indicator for all incoming and outgoing supply. Rate to include all new wiring required and other related work such consumable materials, fabrication on MSB and other related work.	No.	\$ 10.00
7.59	<b><u>TIMER SWITCHES SYNCHRONOUS / PHOTOCCELL</u></b> * As Approved Equivalent to DES and Best Quality		
7.59.1	<b>Timer -24Hrs Dial Min Setting 30 minute - Hager</b> 24hrs Analog Timer 15min , Minimum Setting	No.	\$ 60.00
7.59.2	<b>Timer-Digital Dial Day Setting 24 Hours - Hager</b> Digital Timer Switch Weekly Program	No.	\$ 140.00



Item No.	Description	Unit	Rate
7.59.3	<b>Photocell - Source (B) -ASO-2410, 240V -10A - Lumina</b> 10A Photocell	No.	\$ 18.00
8.0	<b><u>MAIN SWITCHBOARD MAINTENANCE / BREAKDOWN / RECTIFICATION</u></b>  <b>* IMPORTANT NOTE</b>  <i>The Following unit rates apply for supplying new item, installation, delivery, labour charges for every installation, dismantle, modification, realign, relocate of existing items and complete with related consumable materials if required, Manpower to be used will be for works will be inclusive EXCEPT for standby as per required will be paid by per hours.</i>		
8.1	<u>To attend breakdown and on call basis</u>  The supervisor / technicians should have experience knowledge for all MSB systems and troubleshooting, awarded contractor must also have all the testing meter / equipments and other related materials to be standby all the times and shall do proper inspection, troubleshooting, testing for the caused of the problem, all consumable materials shall be included on the rate. Type of testing to be done will not be limited and shall be as proper standard MSB REQUIREMENT PROCEDURE  The Scope of works will include as below: <ul style="list-style-type: none"> <li>● To check all breakers, protection relays, devices, connections and metal clad enclosure front door, back door and skid base.</li> <li>● To Check cable and connection primary and secondary cables.</li> <li>● Check control wiring and connection including relays, timers and bases.</li> <li>● To Check interface connection with other equipments like standby generator, high mast panels for sign of excessive heat (cable and busbar connection)</li> <li>● To inspect all 30A, 60A, 100A, 200A, 250A, 300A, 400A, 500A, 600A, 800A outgoing MCCB for all the contacts and screws for termination at incoming &amp; outgoing, which includes manually operated all ON / OFF breakers.</li> </ul> <p>* Note : Numbers of hours / days are not limited on site (until the problems are rectified / solved / in good conditions) and will be based on per call for the breakdown area. Repeated call based on that area will be considered as only one lot.</p> <p>* All Contractor should attached the supervisor / technicians qualifications, valid DES worker pass, working experience and other related attachment related to the field. Failure to attached the data resume will not be considered to be selected (not complying with specification)</p>	Lot	\$ 100.00



Item No.	Description	Unit	Rate
<b>8.2</b>	<u>Air circuit breakers service maintenance (servicing / repair / troubleshooting etc)</u>  To check / repair / service the main circuit terminal, internal parts of isolating main contacts, moving contacts, control circuits terminal, Arc chambers, Arc chute, moulded insulated covers, internal protective current transformers, power CT, Draw out function, spring charging handle, draw out cradle, breakers fixing terminal position indicator, to check the control circuit safety shutters, main control circuit safety shutters, test jumpers, to clean the terminal chasis, to lubricate all the internal springs, screws, gears, and parts, to check all ON/OFF function, to check the mechanical shaft, to check the shunt trip coil, reinsert the ACB and test the function. Rate to include supply, repair broken, loose, rusty springs, screws, Mechanical key interlocking system, key locks and control circuit. Rate to include troubleshooting / consumable materials / parts replacement / and all related works required for servicing the ACB, shunt trip coils, IDMTL mechanical type over current relays at Main incoming Air circuit breakers.	Lot	\$ 200.00
<b>8.3</b>	<u>To general service, clean and check switchboards; busbar, hotspot, connections of fuses and breakers, mounting, auxillary equipment and calibrating, balancing where necessary as per instructed by s.o. contractor to submit report for verification:-</u>		
<b>8.3.1</b>	UP To 150A	No.	\$ 150.00
<b>8.3.2</b>	200A - 400A	No.	\$ 300.00
<b>8.3.3</b>	400A - 800A	No.	\$ 500.00
<b>8.3.4</b>	800A - 1200A	No.	\$ 1,500.00
<b>8.3.5</b>	1200A - 1600A	No.	\$ 2,500.00
<b>8.3.6</b>	1600A and above	No.	\$ 5,000.00
<b>8.4</b>	<u>Temporary Emergency Cable</u>		
<b>8.4.1</b>	To make temporary emergency connection cable from DES transformer / Feeder Pillar / Genset Change over and etc to Substation Main Switchboard / Control Panel / Motor Pump and etc. Work will also be including for any requirement or instructed by S.O. Rate to include supply of temporary service cable, joint kit, cable lug and other related required materials on site. Rate will include to install connection and dismantling once the problem or faulty are rectified.	Lot	\$ 800.00
<b>8.4.2</b>	To Make temporary emergency connection cable to by pass ACB breaker temporary for emergency cases. Work will also include any requirement or instructed by S.O. Rate to include supply of temporary service cable, joint kit, cable lug and other related required materials on site. Rate will include to install connection and dismantling once the problem or faulty are rectified.	Lot	\$ 400.00
<b>8.5</b>	<u>Main Switchboard Housekeeping</u>		
<b>8.5.1</b>	To do Housekeeping on the Main Switchboard and pump house room. Rate to clean all main switchboard panel / housing and all requirement from S.O	Lot	\$ 150.00
<b>9.0</b>	<b><u>SUPPLY, DELIVERY AND INSTALL OF LIGHT FITTING, FANS &amp; OTHERS</u></b>  <b><u>Supply, delivery and install as follows:</u></b>		
<b>9.1</b>	<u>Fluorescent surface batten fitting c/w day light tube, 240V 50HZ ballast, capacitor, starter etc.</u>		
<b>9.1.1</b>	1 x 18W	No.	\$ 30.00
<b>9.1.2</b>	1 x 36W	No.	\$ 35.00
<b>9.1.3</b>	1 x 65W	No.	\$ 100.00



Item No.	Description	Unit	Rate
<b>9.2</b>	<u>LED Light surface batten fitting c/w daylight / warmlight / Coloured LED tube</u>		
9.2.1	1 x 8W	No.	\$ 35.00
9.2.2	1 x 16W	No.	\$ 36.00
9.2.3	2 x 16W	No.	\$ 51.00
<b>9.3</b>	<u>Fluorescent surface batten fitting c/w daylight / warmlight / Coloured tube, 240V 50Hz, ballast capacitor, starter etc</u>		
9.3.1	2 x 18W	No.	\$ 48.00
9.3.2	2 x 36W	No.	\$ 55.00
9.3.3	2 x 65W	No.	\$ 130.00
<b>9.4</b>	<u>Metal reflector surface fluorescent batten fitting c/w daylight / warmlight / coloured tube, 240V 50Hz, ballast, capacitor, starter etc</u>		
9.4.1	1 x 18W	No.	\$ 38.00
9.4.2	1 x 36W	No.	\$ 45.00
9.4.3	2 x 18W	No.	\$ 65.00
9.4.4	2 x 36W	No.	\$ 70.00
9.4.5	3 x 36W	No.	\$ 120.00
9.4.6	4 x 36W	No.	\$ 150.00
<b>9.5</b>	<u>Surface mirror louver type fluorescent fitting c/w daylight / warmlight / coloured tube, 240V 50Hz, ballast, capacitor starter etc.</u>		
9.5.1	2 x 18W	No.	\$ 80.00
9.5.2	3 x 18W	No.	\$ 140.00
9.5.3	4 x 18W	No.	\$ 180.00
9.5.4	2 x 36W	No.	\$ 135.00
9.5.5	3 x 36W	No.	\$ 160.00
9.5.6	4 x 36W	No.	\$ 180.00
<b>9.6</b>	<u>Recessed type fluorescent fitting c/w daylight / warmlight / coloured tube, 240V 50Hz, ballast, capacitor, starter etc</u>		
9.6.1	2 x 18W	No.	\$ 90.00
9.6.2	3 x 18W	No.	\$ 140.00
9.6.3	4 x 18W	No.	\$ 188.00
9.6.4	2 x 36W	No.	\$ 135.00
9.6.5	3 x 36W	No.	\$ 160.00
9.6.6	4 x 36W	No.	\$ 180.00
<b>9.7</b>	<u>Surface IP54 weatherproof fluorescent fitting c/w daylight / warmlight / coloured tube, 240V 50Hz ballast, capacitor, starter etc.</u>		
9.7.1	1 x 18W	No.	\$ 65.00
9.7.2	2 x 18W	No.	\$ 100.00
9.7.3	1 x 36W	No.	\$ 80.00
9.7.4	2 x 26W	No.	\$ 120.00
<b>9.8</b>	<u>Flourescent Tube Bare Light Fittings (T5 Type)</u>		
9.8.1	1 x 28W Batten Fitting C/w Tube	No.	\$ 16.00
9.8.2	1 x 13W Batten Fitting C/w Tube	No.	\$ 15.00
9.8.3	2 x 28W Batten Fitting C/w Tube	No.	\$ 23.00
9.8.4	2 x 13W Batten Fitting C/w Tube	No.	\$ 21.00
9.8.5	3 x 28W Mirror Louver Fitting	No.	\$ 87.00



Item No.	Description	Unit	Rate
<b>9.9</b>	<u>Flourescent tube batten type or standard diffuser type light fittings or mirror reflector (complete set) - T5 type of fittings</u>		
<b>9.9.1</b>	1 x 28W Batten diffuser fitting c/w tube	No.	\$ 25.00
<b>9.9.2</b>	1 x 13W Batten diffuser fitting c/w tube	No.	\$ 23.00
<b>9.9.3</b>	2 x 28W Batten diffuser fitting c/w tube	No.	\$ 33.00
<b>9.9.4</b>	2 x 13W Batten diffuser fitting c/w tube	No.	\$ 30.00
<b>9.10</b>	<u>Flourescent Tube Prismatic Light Fittings - T5 type of fittings</u>		
<b>9.10.1</b>	2 x 28W 1FT x4FT Surface Prismatic c/w tube	No.	\$ 60.00
<b>9.10.2</b>	2 x 13W 1FT x 2FT Surface Prismatic c/w tube	No.	\$ 57.00
<b>9.11</b>	<u>Flourescent Tube Recessed Light Fittings - T5 type of fittings</u>		
<b>9.11.1</b>	2 x 28W 1 FT x 4FT Recessed mirror louver c/w tube	No.	\$ 70.00
<b>9.11.2</b>	3 x 28W 2 FT x 4FT Recessed mirror louver c/w tube	No.	\$ 87.00
<b>9.11.3</b>	4 x 28W 2FT x 4FT Recessed mirror louver c/w tube	No.	\$ 143.00
<b>9.11.4</b>	3 x 13W 2FT x 2FT Recessed mirror louver c/w tube	No.	\$ 66.00
<b>9.11.5</b>	4 x 13W 1 FT x 4FT Recessed mirror louver c/w tube	No.	\$ 75.00
<b>9.12</b>	<u>Standard LED Weatherproof Fittings - T5 Type of fittings</u>		
<b>9.12.1</b>	1 x 18W c/w tube	No.	\$ 30.00
<b>9.12.2</b>	2 x 18W c/w tube	No.	\$ 35.00
<b>9.13</b>	<u>LED Tube Bare Light Fittings (T8 Type)</u>		
<b>9.13.1</b>	1 x 28W Batten Fitting c/w Tube	No.	\$ 40.00
<b>9.13.2</b>	1 x 18W Batten Fitting c/w Tube	No.	\$ 38.00
<b>9.13.3</b>	1 x 9W Batten Fitting c/w Tube	No.	\$ 35.00
<b>9.13.4</b>	2 x 28W Batten Fitting c/w Tube	No.	\$ 55.00
<b>9.13.5</b>	2 x 18W Batten Fitting c/w Tube	No.	\$ 52.00
<b>9.13.6</b>	3 x 28W Mirror Louver Fitting	No.	\$ 87.00
<b>9.14</b>	<u>LED Tube Prismatic Light Fittings - T8 type of fittings</u>		
<b>9.14.1</b>	2 x 28W 1FT x4FT Surface Prismatic c/w tube	No.	\$ 60.00
<b>9.14.2</b>	2 x 13W 1FT x 2FT Surface Prismatic c/w tube	No.	\$ 57.00
<b>9.15</b>	<u>Standard LED Weatherproof Fittings c/w LED tube - T8 Type of fittings</u>		
<b>9.15.1</b>	1 x 9W	No.	\$ 20.00
<b>9.15.2</b>	2 x 9W	No.	\$ 25.00
<b>9.15.3</b>	1 x 18W	No.	\$ 25.00
<b>9.15.4</b>	2 x 18W	No.	\$ 30.00
<b>9.16</b>	<u>LED Mirror Louver Fitting (recessed / Mounted) c/w LED tube - T8 type of fittings</u>		
<b>9.16.1</b>	2 x 9W	No.	\$ 80.00
<b>9.16.2</b>	3 x 9W	No.	\$ 140.00
<b>9.16.3</b>	4 x 9W	No.	\$ 180.00
<b>9.16.4</b>	2 x 18W	No.	\$ 135.00
<b>9.16.5</b>	3 x 18W	No.	\$ 160.00
<b>9.16.6</b>	4 x 18W	No.	\$ 180.00
<b>9.17</b>	<u>LED Panel Light type (recessed / Mounted) c/w LED tube - T8 type of fittings</u>		
<b>9.17.1</b>	2 x 9W	No.	\$ 80.00
<b>9.17.2</b>	3 x 9W	No.	\$ 130.00
<b>9.17.3</b>	2 x 18W	No.	\$ 135.00
<b>9.17.4</b>	3 x 18W	No.	\$ 160.00



Item No.	Description	Unit	Rate
<b>9.18</b>	<u>High bay fitting with polycarbonate reflector, 240V 50Hz mercury bulbs, control gear, ignitor, capacitor and chain</u>		
<b>9.18.1</b>	150W	No.	\$ 350.00
<b>9.18.2</b>	250W	No.	\$ 460.00
<b>9.18.3</b>	400W	No.	\$ 550.00
<b>9.19</b>	<u>High bay fitting with polycarbonate reflector, 240V, 50Hz metal halide lamp, control gear, ignitor, capacitor and chain</u>		
<b>9.19.1</b>	150W	No.	\$ 380.00
<b>9.19.2</b>	250W	No.	\$ 450.00
<b>9.19.3</b>	400W	No.	\$ 520.00
<b>9.20</b>	<u>SON/T Floodlight fitting IP54 c/w 70W lamp, ignitor, ballast, capcitor 240V 50Hz etc.</u>		
<b>9.20.1</b>	70W	No.	\$ 250.00
<b>9.20.2</b>	150W	No.	\$ 350.00
<b>9.20.3</b>	250W	No.	\$ 480.00
<b>9.20.4</b>	400W	No.	\$ 540.00
<b>9.20.5</b>	1000W	No.	\$ 610.00
<b>9.21</b>	<u>Metal Halide lamp</u>		
<b>9.21.1</b>	70W	No.	\$ 250.00
<b>9.21.2</b>	150W	No.	\$ 380.00
<b>9.21.3</b>	250W	No.	\$ 490.00
<b>9.21.4</b>	400W	No.	\$ 550.00
<b>9.22</b>	<u>Surface circular fluorescent fitting c/w 22W circular tube, 240V 50Hz ballast, capacitor, starter</u>		
<b>9.22.1</b>	1 x 22W	No.	\$ 60.00
<b>9.22.2</b>	1 x 32W	No.	\$ 85.00
<b>9.22.3</b>	1 x 40W	No.	\$ 100.00
<b>9.23</b>	<u>Ceiling mounted surface round type fitting E27 c/w 60W GLS lamp</u>		
<b>9.23.1</b>	40W	No.	\$ 85.00
<b>9.23.2</b>	60W	No.	\$ 90.00
<b>9.23.3</b>	80W	No.	\$ 100.00
<b>9.23.4</b>	100W	No.	\$ 140.00
<b>9.24</b>	<u>Wall mounted surface type c/w GLS lamp E27</u>		
<b>9.24.1</b>	40W	No.	\$ 100.00
<b>9.24.2</b>	60W	No.	\$ 120.00
<b>9.24.3</b>	80W	No.	\$ 160.00
<b>9.24.4</b>	100W	No.	\$ 200.00
<b>9.25</b>	<u>Ceiling mounted/wall mounted prismatic bulkhead fitting 240V 50Hz, ballast, lamp starter etc.</u>		
<b>9.25.1</b>	1 x 60W	No.	\$ 65.00
<b>9.25.2</b>	1 x 80W	No.	\$ 75.00
<b>9.25.3</b>	1 x 100W	No.	\$ 85.00
<b>9.25.4</b>	1 x 120W	No.	\$ 90.00
<b>9.25.5</b>	PAR 38 type spotlight fitting c/w 80W lamp 240V 50Hz	No.	\$ 80.00
<b>9.25.6</b>	PAR 38 type spotlight fitting c/w 120W lamp 240V 50Hz	No.	\$ 110.00



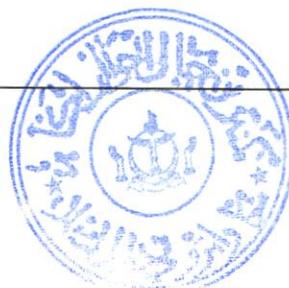
Item No.	Description	Unit	Rate
<b>9.26</b>	<u>Obstruction light mounted on roof / high level IP54 cast aluminium alloy, aviation. Red/Yellow glass 240V 50Hz lamp with bayonet base</u>		
<b>9.26.1</b>	Below 40m height	No.	\$ 700.00
<b>9.26.2</b>	Above 40m height	No.	\$ 2,800.00
<b>9.27</b>	<u>Keluar Sign Fitting</u>		
<b>9.27.1</b>	1 x 8W	No.	\$ 120.00
<b>9.27.1</b>	2 x 8W	No.	\$ 140.00
<b>9.28</b>	<u>PLC downlight fitting c/w 2 pin lamp</u>		
<b>9.28.1</b>	1 x 13W	No.	\$ 60.00
<b>9.28.2</b>	1 x 18W	No.	\$ 75.00
<b>9.28.3</b>	1 x 26W	No.	\$ 90.00
<b>9.28.4</b>	2 x 9W	No.	\$ 70.00
<b>9.28.5</b>	2 x 13W	No.	\$ 100.00
<b>9.28.6</b>	2 x 18W	No.	\$ 110.00
<b>9.28.7</b>	2 x 26W	No.	\$ 120.00
<b>9.29</b>	<u>Down light fitting c/w E27 energy saving lamp</u>		
<b>9.29.1</b>	1 x 13W	No.	\$ 30.00
<b>9.29.2</b>	1 x 18W	No.	\$ 38.00
<b>9.29.3</b>	1 x 26W	No.	\$ 40.00
<b>9.29.4</b>	2 x 18W	No.	\$ 60.00
<b>9.30</b>	<u>LED Downlight (recessed mounted Round / Square)</u>		
<b>9.30.1</b>	6W - 8W	No.	\$ 20.00
<b>9.30.2</b>	12W - 18W	No.	\$ 40.00
<b>9.30.3</b>	21W - 24W	No.	\$ 50.00
<b>9.31</b>	<u>PLC surface circular / wall fitting c/w lamp 240V 50 Hz ballast etc.</u>		
<b>9.31.1</b>	2 x 9W	No.	\$ 78.00
<b>9.31.2</b>	2 x 11W	No.	\$ 90.00
<b>9.31.3</b>	2 x 18W	No.	\$ 110.00
<b>9.31.4</b>	1 x 50W Halogen downlight c/w 12V transformer, 50W halogen lamp etc.	No.	\$ 100.00
<b>9.32</b>	<u>LED floodlight Die Cast Aluminium finished c/w control box</u>		
<b>9.32.1</b>	10W	No.	\$ 40.00
<b>9.32.2</b>	20W	No.	\$ 80.00
<b>9.32.3</b>	40W	No.	\$ 150.00
<b>9.32.4</b>	60W	No.	\$ 220.00
<b>9.32.5</b>	90W - 150W	No.	\$ 350.00
<b>9.32.6</b>	180W - 200W	No.	\$ 420.00
<b>9.32.7</b>	220W - 300W	No.	\$ 500.00
<b>9.33</b>	1.5m (56/60inch) dia. ceiling fan c/w regulator including rod modification as instructed by S.O	No.	\$ 105.00
<b>9.34</b>	22" stand fan	No.	\$ 180.00
<b>9.35</b>	25 inch dia. industrial wall fan	No.	\$ 180.00
<b>9.36</b>	16 inch dia. wall fan	No.	\$ 100.00
<b>9.37</b>	20 inch dia. wall fan	No.	\$ 160.00
<b>9.38</b>	16 inch dia. Auto fan	No.	\$ 100.00



Item No.	Description	Unit	Rate
<b>9.39</b>	<u>Glass mounted exhaust fan c/w cutting glass</u>		
<b>9.39.1</b>	6 inch dia.	No.	\$ 90.00
<b>9.39.2</b>	8 inch dia.	No.	\$ 120.00
<b>9.40</b>	<u>Wall mounted exhaust fan</u>		
<b>9.40.1</b>	6 inch dia.	No.	\$ 100.00
<b>9.40.2</b>	8 inch dia.	No.	\$ 130.00
<b>9.40.3</b>	10 inch dia.	No.	\$ 150.00
<b>9.40.4</b>	12 inch dia.	No.	\$ 190.00
<b>9.40.5</b>	16 inch dia.	No.	\$ 250.00
<b>9.41</b>	<u>Heavy duty exhaust fan c/w auto shutte</u>		
<b>9.41.1</b>	18 inch	No.	\$ 650.00
<b>9.41.2</b>	20 inch	No.	\$ 750.00
<b>9.42</b>	<u>Ceiling Mounted Duct Type Exhaust Fan c/w necessary duct works to existing duct and connector</u>		
<b>9.42.1</b>	4 inch	No.	\$ 150.00
<b>9.42.2</b>	6 - 8 inch	No.	\$ 180.00
<b>9.42.3</b>	9 - 10 inch	No.	\$ 350.00
<b>9.43</b>	6 inch dia. Electric school bell 240V 50Hz	No.	\$ 250.00
<b>9.44</b>	<u>Water heater c/w connection with valve, tap, pipe etc.</u>		
<b>9.44.1</b>	15 litres	No.	\$ 200.00
<b>9.44.2</b>	30 litre 2.5 kw 240V	No.	\$ 240.00
<b>9.44.3</b>	25 litres 3 KW 240V	No.	\$ 286.00
<b>9.44.4</b>	50 litres 2.5 KW 240V	No.	\$ 347.00
<b>9.44.5</b>	50 litres 3 KW 240V	No.	\$ 377.00
<b>9.44.6</b>	75 litres 3 KW	No.	\$ 462.00
<b>9.44.7</b>	100 Litres 9 KW	No.	\$ 520.00
<b>9.44.8</b>	120 Litres 11 KW	No.	\$ 850.00
<b>9.45</b>	Instant water heater 3KW, 240V c/w connection with valve, tap, pipe etc.	No.	\$ 350.00
<b>9.46</b>	Door bell with transformer 240V / 4, 8, 12 volt	No.	\$ 120.00
<b>9.47</b>	Door bell with 1.5V battery operation	No.	\$ 110.00
<b>9.48</b>	<u>SON/T street ligthing lantern c/w lamp, IP54, 240V 50Hz, Ignitor, ballast, capacitor etc.</u>		
<b>9.48.1</b>	70W Ditto	No.	\$ 138.00
<b>9.48.2</b>	150W Ditto	No.	\$ 450.00
<b>9.48.3</b>	250W Ditto	No.	\$ 550.00
<b>9.49</b>	90W LED Street lighting weatherproof outdoor type c/w 90W LED Light and driver etc.	No.	\$ 460.00
<b>9.50</b>	<u>Compound lighting globe, IP54 240V 50Hz, c/w lamp, ballast, ignitor</u>		
<b>9.50.1</b>	70W	No.	\$ 480.00
<b>9.50.2</b>	150W	No.	\$ 600.00
<b>9.51</b>	<u>LED Compound Lighting globe, IP54 c/w E27 bulb holder and LED bulb</u>		
<b>9.51.1</b>	8 inch	No.	\$ 60.00
<b>9.51.2</b>	10 inch	No.	\$ 76.00
<b>9.51.3</b>	12 inch	No.	\$ 100.00
<b>9.51.4</b>	16 inch	No.	\$ 200.00
<b>9.51.5</b>	20 inch	No.	\$ 300.00



Item No.	Description	Unit	Rate
<b>9.52</b>	<u>Ducted Exhaust Fan</u>		
<b>9.52.1</b>	Galvanizes steel sheet cabinet in- Line Fan for ducted type exhaust fan c/w necessary duct works to existing duct and connector	No.	\$ 1,500.00
<b>9.53</b>	Stainless Steel bracket for UPVC pipe c/w rod, bolt and nut	Mtr	\$ 450.00
<b>9.54</b>	<u>Solar LED Floodlight fitting c/w accessories</u>		
<b>9.54.1</b>	100W	No.	\$ 110.00
<b>9.54.2</b>	200W	No.	\$ 150.00
<b>9.54.3</b>	300W	No.	\$ 170.00
<b>9.54.4</b>	400W	No.	\$ 190.00
<b>9.54.5</b>	500W	No.	\$ 210.00
<b>9.55</b>	<u>Solar LED Streetlight fitting</u>		
<b>9.55.1</b>	20W	No.	\$ 21.00
<b>9.55.2</b>	40W	No.	\$ 33.00
<b>9.55.3</b>	90W	No.	\$ 40.00
<b>9.55.4</b>	120W	No.	\$ 55.00
<b>9.55.5</b>	200W	No.	\$ 100.00
<b>9.55.6</b>	300W	No.	\$ 130.00
<b>9.55.7</b>	400W	No.	\$ 180.00
<b>9.55.8</b>	Bracket kit / accessories c/w modification	No.	\$ 7.00
<b>9.56</b>	<u>Emergency Light</u>		
<b>9.56.1</b>	LED Self-contained Emergency Light c/w accessories	No.	\$ 170.00
<b>9.56.2</b>	LED Self-contained Twin Head Emergency Light c/w accessories	No.	\$ 280.00
<b>10.0</b>	<b><u>WATER PUMP SYSTEM</u></b>		
<b>10.1</b>	1 HP Single Phase water pump Hydraulic Electronic System Automatic Control c/w fittings, piping and necessary works required	No.	\$ 325.00
<b>10.2</b>	1 HP Single phase water pump c/w fittings, piping and necessary works required	No.	\$ 800.00
<b>10.3</b>	1.5 HP Single Phase water pump c/w fittings, piping and necessary works required	No.	\$ 1,000.00
<b>10.4</b>	<u>3 Phase, vertical multistage heavy duty water pumpset c/w fittings, piping and necessary works required</u>		
<b>10.4.1</b>	1KW to 3KW	No.	\$ 1,300.00
<b>10.4.2</b>	3 KW to 4KW	No.	\$ 2,500.00
<b>10.5</b>	Booster pumpset c/w fittings, piping and necessary works required	No.	\$ 3,380.00
<b>10.6</b>	Submersible auto pump approx. 1.5KW / 2 HP 220V/50Hz IP 68 speed 2850r/min c/w desludging and emptying well work and necessary works, pipeworks and electrical connection	No.	\$ 2,300.00
<b>10.7</b>	Approx. 5.0KW / 3HP / 400V / 50Hz, 4 Pole IP68, 30L/s at 9m head Ditto	No.	\$ 10,000.00
<b>10.8</b>	<u>Pressure Tank c/w piping and necessary work required</u>		
<b>10.8.1</b>	100 Litres	No.	\$ 850.00
<b>10.8.2</b>	300 Litres	No.	\$ 1,400.00
<b>10.8.3</b>	400 Litres	No.	\$ 1,600.00
<b>10.8.4</b>	500 Litres	No.	\$ 2,200.00



Item No.	Description	Unit	Rate
10.9	20 - 25UF pump capacitor	No.	\$ 100.00
10.10	Pump PLC c/w programming & setting	No.	\$ 2,200.00
10.11	Pump Pressure controller c/w necessary works	No.	\$ 800.00
10.12	Pump Pressure switch c/w necessary works	No.	\$ 175.00
10.13	Float sensor switch, hanger, weatherproof box c/w connection works	No.	\$ 520.00
10.14	Water level sensor c/w necessary works	No.	\$ 175.00
10.15	One way valve c/w necessary works required	No.	\$ 230.00
10.16	4 core / 3mm <sup>2</sup> Amoured Cable c/w accessories required	Mtr	\$ 100.00
10.17	Cable tray c/w necessary works	Mtr	\$ 50.00
10.18	Motor pump bearing	No.	\$ 180.00
10.19	Pump coupling set	SET	\$ 450.00
10.20	Rubber bush	SET	\$ 50.00
10.21	1KW - 3KW soft starter c/w cable connection	No.	\$ 1,275.00
10.22	3KW - 4KW soft starter c/w cable connection	No.	\$ 1,800.00
10.23	Pressure gauge meter	No.	\$ 150.00
10.24	Auto / Manual Selector switch c/w connection works	No.	\$ 100.00
10.25	Waterpump housing zinc covers c/w accessories	No.	\$ 50.00
10.26	Pump water seal leak c/w seal back, bearing and necessary works	No.	\$ 900.00
10.27	Water Pump instrumentation c/w revolving light	No.	\$ 1,000.00
10.28	Water pump control panel c/w PLC, soft starter, ammeter, voltmeter, selector switches, ELR, indicating light, soft starter controller / time and pressure base controller.	No.	\$ 3,000.00
10.29	40A TPN Floor standing Control Panel IP54 c/w necessary accessories and works required for a proper installation	No.	\$ 5,000.00
11.0	<b><u>OTHERS</u></b>		
11.1	<u>To dismantle and remove old fitting / re-position, re-install back c/w connection and termination as per instructed by S.O</u>		
11.1.1	Floodlight	No.	\$ 80.00
11.1.2	Compound light / street lighting lantern	No.	\$ 130.00
11.1.3	High Bay Fitting	No.	\$ 100.00
11.1.4	Ceiling Fan	No.	\$ 15.00
11.1.5	All Surface / recessed type fluorescent fitting	No.	\$ 20.00
11.1.6	Recessed type downlight	No.	\$ 15.00
11.1.7	Wall fan / Auto fan	No.	\$ 15.00
11.1.8	Exhaust fan / industrial fan	No.	\$ 20.00
11.1.9	Electric School bell	No.	\$ 20.00
11.1.10	Water heater	No.	\$ 50.00
11.1.11	TV antenna	No.	\$ 200.00
11.1.12	Compound / Street lighting pole less than 8m high	No.	\$ 250.00
11.1.13	HDG Street lighting pole more than 8m high (include crane work)	No.	\$ 500.00
11.2	To make good / tidy up existing electrical / telecom / ict wiring in pvc casing / conduit / flexible conduit	Mtr	\$ 4.00
11.3	to check, test, troubleshooting, re-align, re-control and re-arrange pump system c/w test relays / contactors / overload relays / float sensors and trace control wiring to function and in normal working order	Lot	\$ 200.00
11.4	To check, test, troubleshooting, rectify pump control panel c/w re-program / re-adjust and minor parts replacement of pump system to function and in normal working order	Lot	\$ 1,000.00
11.5	To provide scaffolding including transportation to site for repair and check light fitting at high ceiling	Lot	\$ 200.00



Item No.	Description	Unit	Rate
11.6	To supply and install wooden block	No.	\$ 15.00
11.7	To supply and make good of lost/defective distribution board cover (des approved)	No.	\$ 300.00
11.8	To check, rectify, troubleshooting that cause tripping such as failure of main or air circuit breaker, c/w insulation test on busbar, riser, sub distribution board and isolated faulty cicuit more than 800a c/w clearance, tidy up cable, tighten cable etc	Lot	\$ 800.00
11.9	To check rectify, troublesshhot that cause tripping such as failure of mcb for power point, lighting point and air conditioning point from the existing distribution board (db), sub switchboard up to 600a c/w clearance, tidy up cable, tighten cable etc	Lot	\$ 200.00
11.1	To cut existing ceiling to provide opening for lighthing / to close or patch ceiling opening c/w white paint	No.	\$ 5.00
11.11	Checking and servicing of fume cupboard; fume hood, blower including replace any faulty part, rewinding motor and make good to work	No.	\$ 1,000.00
11.12	Disconnect existing, reconnect back using proper jointing kit c/w necessary cable links, excavation etc for 4c/10mm2 - 16mm2 underground cable	PER PT	\$ 280.00
11.13	To test set to pin-pointing of low voltage cable fault location with necessary equipments and services required to carry out test by qualified engineer. Note : 1 fault finding	PER PT	\$ 700.00
11.14	To excavate and expose cable fault location manually or using mechanical excavators, with precautionary ,ensures to be taken to safeguard cable within vicinity of worksite; to supply and provide specialised tools, competent jointer to access the extend of low voltage cable fault and to perform the repair works on the cable; repairing of the low cable fault using suitable repairing kits (crimping cable joint link); backfilling to original formation level on completion of repairing cable fault, liasion with des for test and commsoning	PER PT	\$ 800.00
11.15	To fabricate and bolted to wall aluminium compartment / aluminium louver including latch lock, hinges and all other necessary accessories required	m2	\$ 100.00
11.16	To repaint existing ceiling fan / oscillating fan/ fan wall exhaust fan including spraying anticorrosive paint	No.	\$ 30.00





**BILL NO. 4**  
**BREAKDOWN, INTERIM MAINTENANCE AND**  
**REPAIR WORKS FOR AIR CONDITIONING EQUIPMENT SYSTEM**

Item No.	Description	Unit	Rate
<b>B4</b>	<b><u>BILL NO. 4 - BREAKDOWN, INTERIM MAINTENANCE AND REPAIR WORKS FOR AIR CONDITIONING EQUIPMENT SYSTEM</u></b>		
<b>1.0</b>	<b><u>INTERIM MAINTENANCE AND BREAKDOWN ATTENDANCE</u></b>		
	<p><b>Note:</b>  <b>The scope of works is to attend breakdown calls/complaint/ as instructed bty O.I.C and shall be attended only by registered personal/contractor with DES/MOD class 5j or M01.</b></p>		
<b>1.1</b>	<p><u>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:</u></p> <p>i) To attend breakdown calls/complaints/instructions from OIC without delay (within 24 hours of working days) upon received of instruction/complaint</p> <p>ii) 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 O.I.C/S.O</p> <p>iii) To provide comprehensive/status/service report of breakdown calls/complaints including justification of fault such as (data, photos etc) and recommended repair action(s)</p>	No.	\$ 30.00
<b>1.2</b>	<p><u>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:</u></p> <p>i) To attend breakdown calls/complaints/instructions from O.I.C without delay (within 24 hours of working days) upon received of instruction/complaint</p> <p>ii) 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 O.I.C/S.O</p> <p>iii) To provide comprehensive/status/service report of breakdown calls/complaints including justification of fault such as (data, photos etc) and recommended repair action(s)</p> <p>iv) 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.5) to run the unit back to normal working order.</p>	No.	\$ 80.00



Item No.	Description	Unit	Rate
<b>2.0</b>	<b><u>SUPPLY OF MANPOWER</u></b>  <b>Notes:</b> <b>Manpower as stated above are responsible but not limited to as the following:</b>  i) To ensure chiller plant and other associated equipment are operational and are in proper setting as instructed by O.I.C / S.O  ii) Operating and monitoring of central air conditioning system and building automation system (BAS) and to report immediately of any operation abnormalities of equipment  iii) To record daily log sheets reading of chiller plant and other associated equipment  iv) To record room temperature readings daily (3 times a day) on all floor area/ level or as instructed by O.I.C.  v) To ensure and maintain good housekeeping of chiller yard and AHU rooms  vi) To attend all breakdown calls/complaint as instructed by O.I.C  vii) To carry out repair and replacement works where required (parts supplied separately) to run the equipment back to normal working order  viii) All prices quoted are flat rate and not included in the discount.		
2.1	Team leader (Local Only)	Month	\$ 1,600.00
2.2	Assistant Team Leader	Month	\$ 1,200.00
2.3	Supervisor (specialist of A/C chiller & BAS system)	Mandays	\$ 50.00
2.4	Technician (specialist of A/C chiller)	Mandays	\$ 40.00
2.5	Tradesman	Mandays	\$ 30.00
2.6	Helper/trainee	Mandays	\$ 25.00
2.7	<u>Allow for overtime as required during non-working hours or public holiday as instructed and allowed by OIC:</u>		
2.7.1	Supervisor (Specialist of A/C chiller & BAS system)	Hours	\$ 18.00
2.7.2	Technician (Specialist of A/C chiller)	Hours	\$ 12.00
2.7.3	Tradesman	Hours	\$ 8.00
<b>2.8</b>	<b><u>BAS specialist (Certified Manufacture's Specialist)</u></b>  Being breakdown attendance to troubleshoot, reprogramming, calibration works, all required engineering works to run back to normal working order and submit testing and technical report for Building Automation system by Manufacture Specialist on site.	Visit	\$ 2,500.00



Item No.	Description	Unit	Rate
<b>3.0</b>	<b><u>WATER TREATMENT</u></b>  <b>Notes:</b> <b>Maintenance for water treatment condensing water system as specified below with different category / type of maintenance term as which shall be carried out as weekly testing pH and TDS, Monthly test, Half yearly legionella bacteria test, Monthly Maintenance and Monitoring of Chemical Dosing system as approve by O.I.C / S.O and to be charged accordingly. Maintenance and servicing shall be carried out as specified in Basic Guideline for maintenance of Air-Conditioning system and Particular Condition.</b>		
3.1	Testing pH and TDS, total hardness and Corrosion inhibitor	Lot	\$ 40.00
3.2	Test for Legionella bacteria by approve laboratory only	Lot	\$ 300.00
3.3	Maintenance of chemical dosing system	No.	\$ 10.00
3.4	Washout works of replenish with fresh water with adequate amount of chemical	No.	\$ 250.00
3.5	<u>Supply of the following:</u>		
3.5.1	Approved friendly type corrosion inhibitor (Eco Friendly and as approved by OIC/SO and from relevant agencies)	Litres	\$ 25.00
3.5.2	Biocide chemical (Eco Friendly and as approved by OIC/SO and from relevant agencies)	Litres	\$ 20.00
3.5.3	Backup biocide chemical (Eco Friendly and as approved by OIC/SO and from relevant agencies)	Litres	\$ 20.00
3.5.4	copper corrosion monitor coupons	No.	\$ 25.00
3.5.5	Mild steel corrosion monitor coupons	No.	\$ 25.00
3.5.6	Safety equipment ( a pair of safety shoes, hand gloves, goggle and safety mask)	No.	\$ 150.00
3.5.7	Water sample testing for the other parameters as specified by SO and scope of works	No.	\$ 50.00
<b>4.0</b>	<b><u>SUPPLY OF DEFECTIVE PARTS (DX PACKAGE TYPE/RAC/SPLIT UNIT / PAC /VRF/AIR CURTAIN)</u></b>  <b>Notes:</b> <b>i) The above scope is to supply defective part(s), testing and commissioning, including nine(9) months of comprehensive</b>  <b>ii) All make type/rating/size refered below shall be approved original manufacturer and genuine parts only.</b>		
4.1	<u>Fully hermetic compressor non-inverter for split unit/RAC/DX Package type (R22) of any make c/w service valve 'motor protector' cranlcase heater including vacuuming, testing and commissioning according to the following capacity:</u>		
4.1.1	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 300.00
4.1.2	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 320.00
4.1.3	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 500.00
4.1.4	36,001 Btu/hr to 48,000 Btu/hr	No.	\$ 700.00
4.1.6	48,001 Btu/hr to 60,000 Btu/hr	No.	\$ 1,000.00
4.1.8	60,001 Btu/hr to 80,000 Btu/hr	No.	\$ 1,600.00
4.1.9	80,001 Btu/hr and above	No.	\$ 2,600.00



Item No.	Description	Unit	Rate
<b>4.2</b>	<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>		
<b>4.2.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 650.00
<b>4.2.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 950.00
<b>4.2.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 1,200.00
<b>4.2.4</b>	36,001 Btu/hr to 48,000 Btu/hr	No.	\$ 1,800.00
<b>4.2.5</b>	48,001 Btu/hr to 60,000 Btu/hr	No.	\$ 2,300.00
<b>4.3</b>	<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>		
<b>4.3.1</b>	6HP	No.	\$ 1,100.00
<b>4.3.2</b>	8HP	No.	\$ 1,600.00
<b>4.3.3</b>	10HP and above	No.	\$ 2,100.00
<b>4.4</b>	<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>		
<b>4.4.1</b>	6HP	No.	\$ 1,300.00
<b>4.4.2</b>	8HP	No.	\$ 1,800.00
<b>4.4.3</b>	10HP and above	No.	\$ 2,800.00
<b>4.5</b>	Thermostat Including Sensor (any type/size/brand)	No.	\$ 50.00
<b>4.6</b>	Low pressure switch (any type/size)	No.	\$ 100.00
<b>4.7</b>	High pressure switch (any type/size)	No.	\$ 100.00
<b>4.8</b>	Control/Overload relay (any type/size)	No.	\$ 30.00
<b>4.9</b>	Time delay relay	No.	\$ 60.00
<b>4.10</b>	Blower Scroll for RAC unit	No.	\$ 100.00
<b>4.11</b>	Fan coil motor (blower) (any type/size)	No.	\$ 80.00
<b>4.12</b>	Swing control motor split / RAC / FCUs' (any type/size)	No.	\$ 40.00
<b>4.13</b>	Blower wheel of fan coil unit (any type/size)	No.	\$ 120.00
<b>4.14</b>	Refrigerant pipe complete with insulation using Armaflex insulation, trunking and adhesive denso tape (any size)	No.	\$ 10.00
<b>4.15</b>	<u>Drain / condensate pipe (any size) with all necessary fittings including the following:</u>		
<b>4.15.1</b>	Aeroflex insulation	Mtr	\$ 7.00
<b>4.15.2</b>	Hacking and concealed on concrete floor with mosaic tiles as approved by OIC	Mtr	\$ 15.00
<b>4.15.3</b>	Exposed drain pipe	Mtr	\$ 5.00
<b>4.16</b>	DOL starter for Room air-conditioning unit (220/) coil single phase with c/w overload	No.	\$ 60.00
<b>4.17</b>	<u>Printed Circuit Board (PCB) for Inverter type (any type/size/brand):</u>		
<b>4.17.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 160.00
<b>4.17.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 180.00
<b>4.17.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 200.00
<b>4.17.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No.	\$ 220.00
<b>4.17.5</b>	60,001 Btu/hr and above	No.	\$ 280.00



<b>4.30</b>	Remote to wire type including necessary parts	Mtr	\$	5.00
<b>4.31</b>	<u>Fan Blade for condensing unit (Any type / make)</u>			
<b>4.31.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No	\$	80.00
<b>4.31.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No	\$	90.00
<b>4.31.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No	\$	100.00
<b>4.31.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No	\$	100.00
<b>4.31.5</b>	60,001 Btu/hr and above	No	\$	100.00
<b>4.32</b>	<u>New Condenser fan motor for Split unit. (Any type /Make)</u>			
<b>4.32.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No	\$	150.00
<b>4.32.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No	\$	180.00
<b>4.32.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No	\$	200.00
<b>4.32.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No	\$	220.00
<b>4.32.5</b>	60,001 Btu/hr and above	No	\$	240.00
<b>4.33</b>	<u>New Fan motor RAC. Any make / type</u>			
<b>4.33.1</b>	7,000 - 14,000 Btu/hr	No	\$	150.00
<b>4.33.2</b>	14,001 - 16,000 Btu/hr	No	\$	200.00
<b>4.33.3</b>	16,001 - 24,000 Btu/hr	No	\$	250.00



TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG, DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM.

KHEU/BDP/164/ /2024

Item No.	Description	Unit	Rate
<b>4.18</b>	<u>Printed Circuit Board (PCB) for Non Inverter type (any type/size/brand):</u>		
<b>4.18.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 100.00
<b>4.18.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 120.00
<b>4.18.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 140.00
<b>4.18.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No.	\$ 160.00
<b>4.18.5</b>	60,001 Btu/hr and above	No.	\$ 250.00
<b>4.19</b>	Air/Pipe Thermister Sensor (any type/size/Brand)	No.	\$ 60.00
<b>4.20</b>	Filter Drier (any type /size)	No.	\$ 50.00
<b>4.21</b>	Contactora (any type/size)	No.	\$ 60.00
<b>4.22</b>	DP Switch	No.	\$ 20.00
<b>4.23</b>	Plug Top (any type/size)	No.	\$ 8.00
<b>4.24</b>	Cassette type drain pump (any type/size)	No.	\$ 180.00
<b>4.25</b>	Socket for plug top (any type/size)	No.	\$ 20.00
<b>4.26</b>	Step down transformer (any type/brand)	No.	\$ 80.00
<b>4.27</b>	Remote control (any type/brand)	No.	\$ 80.00
<b>4.28</b>	<u>Refrigerant Gas as the following (RAC/Split unit) including leak repair and charging:</u>		
<b>4.28.1</b>	R22	Kg	\$ 10.00
<b>4.28.2</b>	R407C	Kg	\$ 15.00

Item No.	Description	Unit	Rate
<b>4.34</b>	<u>New FCU fan motor for Split Unit. (Any Make / type / size)</u>		
<b>4.34.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 150.00
<b>4.34.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 180.00
<b>4.34.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 200.00
<b>4.34.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No.	\$ 220.00
<b>4.34.5</b>	60,001 Btu/hr and above	No.	\$ 240.00
<b>4.35</b>	<u>FCU Fan scroll for Split Unit. (Any Make / type / size)</u>		
<b>4.35.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 80.00
<b>4.35.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 90.00
<b>4.35.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 100.00
<b>4.35.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No.	\$ 110.00
<b>4.35.5</b>	60,001 Btu/hr and above	No.	\$ 120.00
<b>4.36</b>	<u>To rewind Condensing Unit Fan motor for split unit (any type / size / make/ capacity) c/w bearings</u>		
<b>4.36.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 50.00
<b>4.36.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 50.00
<b>4.36.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 50.00
<b>4.36.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No.	\$ 50.00
<b>4.36.5</b>	60,001 Btu/hr and above	No.	\$ 50.00
<b>4.37</b>	<u>To rewind Fan Motor for RAC (any make / size / make / capacity) c/w bearings</u>		
<b>4.37.1</b>	7,000 - 14,000 Btu/hr	No.	\$ 30.00
<b>4.37.2</b>	14,001 - 16,000 Btu/hr	No.	\$ 30.00
<b>4.37.3</b>	16,001 - 24,000 Btu/hr	No.	\$ 30.00
<b>4.38</b>	To fabricate, supply & install Drip tray for RAC	No.	\$ 50.00
<b>4.39</b>	15 Amps Switched socket outlet	No.	\$ 20.00
<b>4.40</b>	Compressor terminal clip with wireless assembly	No.	\$ 3.00
<b>4.41</b>	<u>MCCB as the following:</u>		
<b>4.41.1</b>	40 to 80 SP/TP	No.	\$ 100.00
<b>4.41.2</b>	80 to 150 SP/TP	No.	\$ 200.00
<b>4.42</b>	<u>ELCB as the following :</u>		
<b>4.42.1</b>	40 to 80 SP/TP	No.	\$ 200.00
<b>4.42.2</b>	50 to 150 SP/TP	No.	\$ 300.00
<b>4.43</b>	<u>Weatherproof isolator switch as the following:</u>		
<b>4.43.1</b>	20Amps DP/TP	No.	\$ 40.00
<b>4.43.2</b>	32 Amps DP/TP	No.	\$ 60.00
<b>4.44</b>	<u>MCB as the following:</u>		
<b>4.44.1</b>	16 Amps SP/TP	No.	\$ 80.00
<b>4.44.2</b>	32-40Amps SP/TP	No.	\$ 100.00
<b>4.45</b>	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 O.I.C/S.O	No.	\$ 150.00
<b>4.46</b>	<u>Blanking off an opening (complete with painting as approved by O.I.C) using:</u>		
<b>4.46.1</b>	Plywood / cement board	Lot	\$ 10.00
<b>4.46.2</b>	Palstering: brick : cement	Lot	\$ 60.00



Item No.	Description	Unit	Rate
<b>4.47</b>	<u>To supply and terminate the following:</u>		
<b>4.47.1</b>	3C x 4mm2 in PVC surface casing / trunking / conduit for the nearest sub DB to unit isolator	Mtr	\$ 10.00
<b>4.47.2</b>	5C x 4mm2 in PVC surface casing / trunking / conduit for the nearest sub DB to unit isolator	Mtr	\$ 20.00
<b>4.48</b>	PVC Trunking. Any Size	Mtr	\$ 4.00
<b>4.49</b>	Metal Trunking. Any Size	Mtr	\$ 6.00
<b>4.50</b>	Bearing for Fan Coil Motor. Any Size	No.	\$ 7.00
<b>4.51</b>	Bearing for Condenser Motor. Any Size	No.	\$ 18.00
<b>4.52</b>	Repair works and re-insulation of Ducting with 2" / 2lbs Fibre glass / PE & Aluminium Foil	Mtr sq.	\$ 40.00
<b>4.53</b>	Room thermostat - The Controller shall be electronically lockable and set point to be access only via a standard laptop / Notebook / Palmtop Computer	No.	\$ 150.00
<b>4.54</b>	Thermistor sensors (Any type / Any size)	No.	\$ 350.00
<b>4.55</b>	Compressor Motor Protection relay (Any type / make / size )	No.	\$ 450.00
<b>4.56</b>	Refrigerant High Pressure Switch. (Any type or make)	No.	\$ 350.00
<b>4.57</b>	Refrigerant Low Pressure Switch. (Any type or make)	No.	\$ 350.00
<b>4.58</b>	Refrigerant Oil Pressure Switch. (Any type or make)	No.	\$ 250.00
<b>4.59</b>	<u>Electronic Expansion Valve:</u>		
<b>4.59.1</b>	up to 100TR	No.	\$ 1,000.00
<b>4.59.1</b>	101 to 150TR	No.	\$ 1,200.00
<b>4.60</b>	<u>New Condenser Fan Motor for Package unit:</u>		
<b>4.60.1</b>	1-2 HP	No.	\$ 1,500.00
<b>4.60.2</b>	3-4 HP	No.	\$ 1,800.00
<b>4.60.3</b>	5-6 HP	No.	\$ 2,000.00
<b>4.61</b>	Pressure Transducer. (Any type or make)	No.	\$ 550.00
<b>4.62</b>	Transducer Sensor. (Any Type or make)	No.	\$ 550.00
<b>4.63</b>	Solenoid Valve Coil. (Any type, size and make)	No.	\$ 250.00
<b>4.64</b>	Liquid line solenoid valve c/w solenoid coil (24/110/240V/50Hz) size up to 1"	No.	\$ 450.00
<b>4.65</b>	Bearings including resurfacing of shaft. Any type / size (Electric Motor / AHU blower / CT fan)	No.	\$ 350.00
<b>4.66</b>	V-Belts. (Any size / any type)	No.	\$ 80.00
<b>4.67</b>	7 day (24hrs Programmable timer switch (electronic digital type) any type, brand or size	No.	\$ 200.00



Item No.	Description	Unit	Rate
<b>4.68</b>	<u>Fuse (any type) as the following capacity:</u>		
<b>4.68.1</b>	Up to 50Amps	No.	\$ 20.00
<b>4.68.2</b>	Up to 100Amps	No.	\$ 30.00
<b>4.69</b>	Microprocessor Display Board for Package Unit c/w reprogramming (any brand / type)	No.	\$ 3,500.00
<b>4.70</b>	AHU blower Bearing (pillow, block, flange or any type other type / size)	No.	\$ 80.00
<b>4.71</b>	VRF Unit, Thermistor Sensors used in Indoor or Outdoor Unit (Any type / make)	No.	\$ 350.00
<b>4.72</b>	VRF Unit, Indoor Printed Circuit Board. (Any brand / type)	No.	\$ 450.00
<b>4.73</b>	VRF Unit, Compressor / Fan Motor IPDU (Any brand / type / capacity)	No.	\$ 650.00
<b>4.74</b>	VRV Unit : Noise Filter PCB (Any Brand / type)	No.	\$ 750.00
<b>4.75</b>	VRV Unit : Communication cable (Any Brand / type)	Mtr	\$ 45.00
<b>4.76</b>	VRV Unit : Current Sensor PCB (Any Brand / type)	No.	\$ 1,000.00
<b>4.77</b>	VRV Unit : Processor Sensor (Any Brand / type)	No.	\$ 1,000.00
<b>4.78</b>	VRV Unit : Remote Sensor c/w Display board for FCU (Any Brand / type)	No.	\$ 1,000.00
<b>4.79</b>	VRV Unit: Standard Compressor Current Sensor	No.	\$ 1,100.00
<b>4.80</b>	VRV Unit : High & Low Pressure Sensor	No.	\$ 950.00
<b>4.81</b>	VRV unit : PME / EEV valve (Any type / Size)	No.	\$ 1,300.00
<b>4.82</b>	VRV unit : Main PCB c/w programming (Any Brand / Type)	No.	\$ 3,500.00
<b>4.83</b>	VRV unit : Inverter Compressor PCB (Any Brand / Type)	No.	\$ 1,000.00
<b>4.84</b>	VRV unit : Inverter Compressor (Any Capacity and Type)	No.	\$ 3,500.00
<b>4.85</b>	VRV unit : Standard Compressor (any Capacity and Type)	No.	\$ 3,000.00
<b>4.86</b>	<u>Refrigerant gas as the following: c/w leak test and charging on site for Package Unit and VRF</u>		
<b>4.86.1</b>	Refrigerant R410A/Kg	Kg	\$ 30.00
<b>4.86.2</b>	Refrigerant R404/Kg	Kg	\$ 30.00
<b>4.86.3</b>	Refrigerant R407C/Kg	Kg	\$ 30.00
<b>4.86.4</b>	Refrigerant R134a/Kg	Kg	\$ 25.00
<b>4.86.5</b>	Dry Nitrogen	Mt.cu	\$ 120.00
<b>4.87</b>	<u>Moisture &amp; Liquid Indicator (Sight Glass) as the following:</u>		
<b>4.87.1</b>	¾" - ½ "	No.	\$ 80.00
<b>4.87.2</b>	¾" - 1½"	No.	\$ 110.00
<b>4.88</b>	<u>Replaceable Air Pre-Filters media washable type, Carbon filter for AHU</u>	Mtr.Sq	\$ 120.00
<b>4.89</b>	Pre-insulated flexible duct		
<b>4.89.1</b>	200 mm2	Mtr	\$ 25.00
<b>4.89.2</b>	300 mm2	Mtr	\$ 30.00
<b>4.89.3</b>	500 mm2	Mtr	\$ 35.00



Item No.	Description	Unit	Rate
4.90	Smoke Detector (dual Sensor) c/w control wiring	No.	\$ 120.00
4.91	Compressor Oil (York, Suniso/Carrier/Trane) suitable for refrigerant systems	No.	\$ 35.00
4.92	Repair works for duct insulation for concealed type split unit	Mtr	\$ 60.00
4.93	<u>Single PVC cable surface wiring in PVC / G.I metal conduit or with trunking:</u>		
4.93.1	1.5mm <sup>2</sup>	Mtr	\$ 5.00
4.93.2	2.5mm <sup>2</sup>	Mtr	\$ 8.00
4.93.3	4.0mm <sup>2</sup>	Mtr	\$ 10.00
4.94	<u>To supply new axial fan motors c/w HyBlade Ass'y for condensing unit (Chiller unit):</u>		
4.94.1	Below 1/2 HP	No.	\$ 1,550.00
4.94.2	1/2 - 1 HP	No.	\$ 2,600.00
4.94.3	2 - 3 HP	No.	\$ 3,600.00
4.95	<u>To supply new axial fan motors c/w HyBlade Ass'y for condensing unit (VRV and Precision unit):</u>		
4.95.1	Below 1/2 HP	No.	\$ 1,550.00
4.95.2	1/2 - 1 HP	No.	\$ 2,600.00
4.95.3	2 - 3 HP	No.	\$ 3,600.00
5.0	<b><u>SUPPLY OF DEFECTIVE PARTS AND SERVICES (CHILLER)</u></b>		
	<b>Notes:</b>		
	<b>i) The above scope is to supply defective part(s), testing and commissioning, including nine (9) months of comprehensive warranty, including breakdown attendance</b>		
	<b>ii) All make type/rating/size referred below shall be approved original manufacturer and genuine parts only</b>		
5.1	Refrigerant filter drier (Any type/size)	No.	\$ 30.00
5.2	Refrigerant filter drier core (Any type/size)	No.	\$ 80.00
5.3	<u>To rewind Condenser/Cooling Tower/Pump Motor/AHU motor Fan Motor bearing including resurfacing of motor shaft. (Any Type/size)</u>		
5.3.1	Up to 15hp	No.	\$ 800.00
5.3.2	15.1hp - 30hp	No.	\$ 1,200.00
5.3.3	30.1hp - 50hp	No.	\$ 1,600.00
5.3.4	50.1hp - 60hp	No.	\$ 1,800.00
5.3.5	60.1hp and above	No.	\$ 2,000.00
5.4	Fan blade up to 18" dia (Any type/size/brand)	No.	\$ 300.00
5.5	Room Thermostat - The Controller shall be electronically lockable and set point to be access only via a standard laptop / Notebook / palmtop computer.	No.	\$ 150.00
5.6	Thermistor sensors (Any type/size)	No.	\$ 350.00
5.7	Compressor Motor Protection relay (Any type/make/size)	No.	\$ 450.00
5.8	Refrigerant High Pressure Switch (Any type/make)	No.	\$ 350.00
5.9	Refrigerant Low Pressure Switch (Any type/make)	No.	\$ 350.00



Item No.	Description	Unit	Rate
5.10	Refrigerant Oil Pressure Switch. (Any type/make)	No.	\$ 250.00
5.11	<u>Electronic Expansion Valve:</u>		
5.11.1	up to 100 TR	No.	\$ 1,000.00
5.11.2	101 to 150 TR	No.	\$ 1,200.00
5.11.3	151 to 200 TR	No.	\$ 1,400.00
5.11.4	201 to 250 TR	No.	\$ 1,600.00
5.11.5	251 to 300 TR	No.	\$ 1,800.00
5.12	Temperature Gauge complete with brass cock. (Any type / make)	No.	\$ 50.00
5.13	Pressure Gauge 4" (weatherproof)	No.	\$ 50.00
5.14	<u>Water Flow switch / sensor :</u>		
5.14.1	Water Flow sensor switch	No.	\$ 600.00
5.14.2	Water flow Sensor (Electronic type)	No.	\$ 800.00
5.14.3	Water flow sensor (Transducer type)	No.	\$ 900.00
5.15	Oil Pump for chillers (Any type/size/make)	No.	\$ 400.00
5.16	<u>New Condenser Fan Motor:</u>		
5.16.1	1 - 2HP	No.	\$ 1,500.00
5.16.2	3 - 4HP	No.	\$ 1,800.00
5.16.3	5 - 6 HP	No.	\$ 2,000.00
5.17	Pressure Taransducer (Any type / make)	No.	\$ 550.00
5.18	Transducer Sensor (Any type / make)	No.	\$ 550.00
5.19	Solenoid valve coil (Any type / size / make)	No.	\$ 250.00
5.20	Liquid line solenoid valve c/w solenoid coil (24/110/240V/50Hz) size up to 1 "	No.	\$ 450.00
5.21	<u>Oil filter Catridge for screw chiller</u>		
5.21.1	Internal	No.	\$ 200.00
5.21.2	External	No.	\$ 350.00
5.22	Microprocessor Display Board c/w reprogramming (any brand / type)	No.	\$ 3,500.00
5.23	Compressor communication PCB for screw/centrifugal/ reciprocating Chiller (Any type/brand/capacity)	No.	\$ 1,200.00
5.24	Expansion Valve communictaion PCB (any type / brand)	No.	\$ 850.00
5.25	Relay Board for chiller (any type / brand)	No.	\$ 750.00
5.26	Chiller motherboard for chiller (any type / brand)	No.	\$ 2,800.00
5.27	Bearings including resurfacing of shaft. Any type/ size (Electric Motor/AHU blower/CT fan)	No.	\$ 350.00
5.28	<u>To rewind compressor Motors c/w resurfacing. any rpm &amp; 1PH or 3PH 240/415V 50Hz with 6 months warranties</u>		
5.28.1	up to 15HP	Lot	\$ 600.00
5.28.2	15.1HP - 25HP	Lot	\$ 900.00
5.28.3	25.1HP - 50HP	Lot	\$ 1,800.00



Item No.	Description	Unit	Rate
5.28.4	50.1HP - 60HP	Lot	\$ 2,500.00
5.28.5	60.1HP - 70HP	Lot	\$ 2,800.00
5.28.6	70.1HP and above	Lot	\$ 3,200.00
5.29	<u>To identify and repair leak of chiller of any type with the following capacity and to run the system back to normal working order:</u>		
5.29.1	100-300 TR	Lot	\$ 300.00
5.29.2	301 - 500 TR	Lot	\$ 350.00
5.29.3	501 - 800 TR	Lot	\$ 400.00
5.30	To overhaul any type / size water pump including replace bearing, mechanical seal and other necessary materials	Lot	\$ 950.00
5.31	Pump Coupling (complete set). Any Size / any make or type	Lot	\$ 350.00
5.32	Re-Insulation of Existing Chilled water pump with approved insulation c/w 22G Aluminium sheet cladding & Painting	Lot	\$ 350.00
5.33	Carry out painting of air conditioning equipment (Chilled water line and condenser water line) including water flow indication arrow	Mtr	\$ 15.00
5.34	<u>Soft starter from 5 kw to 55kw. (Any type/make)</u>		
5.34.1	Up to 15kw	No.	\$ 1,500.00
5.34.2	16 to 30kw	No.	\$ 2,700.00
5.34.3	31kw to 55kw	No.	\$ 3,500.00
5.34.4	55kw & above	No.	\$ 4,250.00
5.35	Over Load relay (Any type/make/size)	No.	\$ 200.00
5.36	<u>Magnetic Contactor (any type)</u>		
5.36.1	Up to 25amps	No.	\$ 250.00
5.36.2	Up to 60amps	No.	\$ 400.00
5.36.3	Up to 120amps	No.	\$ 750.00
5.36.4	Up to 250amps	No.	\$ 1,000.00
5.37	Auxilliary Contatctor / relay (Any type / make / size)	No.	\$ 30.00
5.38	Control Relay (Any type / make /size)	No.	\$ 60.00
5.39	MCCB 40 to 80 SP/TP	No.	\$ 150.00
5.40	MCCB 80 to 150 SP/TP	No.	\$ 160.00
5.41	ELCB 40 to 80 SP/TP	No.	\$ 220.00
5.42	ELCB 80 to 150 SP/TP	No.	\$ 320.00
5.43	MCB 10 - 40 Amps SP/TP	No.	\$ 100.00
5.44	Pump Coupling Rubber inserts (Any Size/make/type)	No.	\$ 150.00
5.45	Time delay relay	No.	\$ 80.00
5.46	V-Belts (Any Size / type)	No.	\$ 80.00



Item No.	Description	Unit	Rate
<b>5.47</b>	<u>Circuit breaker of the following capacity:</u>		
<b>5.47.1</b>	Up to 300 amps	No.	\$ 1,750.00
<b>5.47.2</b>	Up to 600 amps	No.	\$ 2,500.00
<b>5.47.3</b>	Up to 800 amps	No.	\$ 3,500.00
<b>5.47.4</b>	Up to 1000 amps	No.	\$ 4,250.00
<b>5.48</b>	7 day (24hrs) Programmable timer switch (electronic digital type) any type, brand or size	No.	\$ 375.00
<b>5.49</b>	<u>Fuse (any type) as the following capacity:</u>		
<b>5.49.1</b>	Up to 50Amps	No.	\$ 20.00
<b>5.49.2</b>	Up to 100 Amps	No.	\$ 30.00
<b>5.49.3</b>	Up to 150 Amps	No.	\$ 40.00
<b>5.50</b>	Earth Fault Relay	No.	\$ 450.00
<b>5.51</b>	Earth Leakage Relay	No.	\$ 350.00
<b>5.52</b>	Phase Motor Protection Relay	No.	\$ 650.00
<b>5.53</b>	CT Coil (Any Make/Brand)	No.	\$ 200.00
<b>5.54</b>	Industrial type Exhaust Fan (Any type, size up to 18" or make)	No.	\$ 1,100.00
<b>5.55</b>	Exhaust Fan (Wall/glass mounted) (Any type / size up to 12")	No.	\$ 110.00
<b>5.56</b>	Air Pre-Filter disposable and non-disposable type). Any type or size up to 600 x 600 mm	No.	\$ 40.00
<b>5.57</b>	Automatic Air Vent 1/2 ' Dia	No.	\$ 110.00
<b>5.58</b>	Automatic Air Vent 1" dia	No.	\$ 120.00
<b>5.59</b>	AHU Smoke detector	No.	\$ 110.00
<b>5.60</b>	<u>VSD (Variable Speed driver) Any type or make</u>		
<b>5.60.1</b>	UP to 15kw	No.	\$ 2,500.00
<b>5.60.2</b>	16 to 30kw	No.	\$ 4,000.00
<b>5.60.3</b>	31 to 50kw	No.	\$ 5,750.00
<b>5.61</b>	OIL Heater (any type or size)	No.	\$ 200.00
<b>5.62</b>	Re-insulation of Ducting with 2" / 2lbs Fibre glass / PE & Aluminium foil	Mtr sq	\$ 150.00
<b>5.63</b>	Re-insulation of Chilled water pipe with approved pipe insulation c/w 22G G.1 Sheet Cladding & Painting	Mtr	\$ 30.00
<b>5.64</b>	Float Valve For Expansion / make up Tank c/w float Assembly. Any type or size up to 1" dia	No.	\$ 150.00
<b>5.65</b>	To service glass / wall mounted exhaust fan (any type or size)	No.	\$ 5.00
<b>5.66</b>	Re-insulate of Chiller barrel using approved type and 1 inch thickness of insulation close cell insulation sheet	Mtr sq	\$ 50.00
<b>5.67</b>	Compressor oil (York, suniso/Carrier/Trane/Dunham Bush) Suitable refrigerant system R11,R12,R22 & R134A/ Liter	Litre	\$ 35.00



Item No.	Description	Unit	Rate
5.68	Chiller Anti Recycle Timer any other brand	No.	\$ 350.00
5.69	Chiller Water Temperature Sensor any other brand	No.	\$ 350.00
5.70	<u>Supply of electric motor</u>		
5.70.1	5 -10 hp	No.	\$ 1,000.00
5.70.2	10.1 - 20 hp	No.	\$ 1,200.00
5.70.3	20.1 - 40 hp	No.	\$ 1,500.00
5.70.4	40.1 - 60 hp	No.	\$ 2,000.00
5.70.5	60.1 - 80 hp	No.	\$ 3,000.00
5.71	<u>Coil Voltage any size/make/ type</u>		
5.71.1	15 - 35 Amps	No.	\$ 40.00
5.71.2	36 - 55 Amps	No.	\$ 50.00
5.71.3	56 - 75 Amps	No.	\$ 60.00
5.71.4	76 - 95 Amps	No.	\$ 70.00
5.71.5	96 - 115 Amps	No.	\$ 80.00
5.71.6	116 - 135 Amps	No.	\$ 90.00
5.72	<u>Approved type of control Damper (opposed blade type)</u>		
5.72.1	450 x 300	No.	\$ 50.00
5.72.2	600 x 400	No.	\$ 70.00
5.72.3	600 x 450	No.	\$ 80.00
5.72.4	900 x 500	No.	\$ 90.00
5.73	<u>Gasket ( any type or size):</u>		
5.73.1	Barrel	No.	\$ 100.00
5.73.2	Pump	No.	\$ 60.00
5.73.3	Compressor	No.	\$ 80.00
5.74	<u>Refrigerant gas as the following: c/w charging on site</u>		
5.7.4.1	R410A / kg	Kg	\$ 30.00
5.7.4.2	R404 / kg	Kg	\$ 30.00
5.7.4.3	R407C / Kg	Kg	\$ 30.00
5.7.4.4	R22 / Kg	Kg	\$ 20.00
5.7.4.5	R134a / Kg	Kg	\$ 25.00
5.7.4.6	Dry Nitrogen	Mtr Cu	\$ 120.00
5.75	<u>Moisture &amp; Liquid Indicator (Sight Glass) as the following:</u>		
5.75.1	3/8" - 1/2"	No.	\$ 80.00
5.75.2	3/8" - 1 1/8"	No.	\$ 110.00
5.76	AHU Blower Bearing ( pillow, block, flange or any other type / size)	No.	\$ 80.00
5.77	To fabricate, supply & install Ducting c/w 2" / 2lbs. Fibre glass & aluminium foil	Mtr sq	\$ 50.00
5.78	To fabricate, supply & install Ducting (bare)	Mtr sq	\$ 30.00
5.79	Re-insulation of AHU panel with 1" thick Aeroflex or superlon	Mtr sq	\$ 60.00
5.80	Re-insulation of AHU panel with 2" thick Aeroflex or superlon	Mtr sq	\$ 80.00
5.81	Re-insulation of suction line and drain line with aeroflex / superlon c/w self adhesive denso tape	Mtr	\$ 10.00
5.82	To provide the mobile excavator, wleding, trenches, backfill and marker to execute the work back to until finish or back to its original state as instructed by OIC / SO	Lot	\$ 3,000.00



Item No.	Description	Unit	Rate
<b>5.83</b>	<u>Underground chilled water pipe factory insulated scchedule 40 seamless Black steel pipe BS1387 Class C including insulated Rigid polyurethane, density - 45kg/m<sup>3</sup> CFC free, thermal conductivity - 0.017kcal/m-HoC, compressive strength - 5kg/cm<sup>3</sup> including all necessary site preparation, excavator, safety and wll taken care of existing underground facilities.</u>		
<b>5.83.1</b>	Pipe size below 3" dia. With 32mm insulation thickness	Mtr	\$ 350.00
<b>5.83.2</b>	Pipe size 3 - 5" dia. With 32mm insulation thickness	Mtr	\$ 380.00
<b>5.83.3</b>	Pipe size 6 - 8" dia. With 40mm insulation thickness	Mtr	\$ 420.00
<b>5.83.4</b>	Pipe size 9 - 12" dia. With 50mm insulation thickness	Mtr	\$ 650.00
<b>5.84</b>	Concrete Service valve chamber c/w stainless steel cover and handle	Lot	\$ 1,000.00
<b>5.85</b>	<u>Above ground chilled water pipe with pre-insulated black steel BS 1387 Class C heavy grade</u>		
<b>5.85.1</b>	Pipe size below 3" dia.	Mtr	\$ 200.00
<b>5.85.2</b>	Pipe size 3 - 5" dia.	Mtr	\$ 220.00
<b>5.85.3</b>	Pipe size 6 - 8" dia.	Mtr	\$ 250.00
<b>5.85.4</b>	Pipe size 9 - 12" dia.	Mtr	\$ 280.00
<b>5.85.5</b>	Pipe size below 3" dia (with approved insulation for indoor use, 1 1/2" - 2" thick with vapour	Mtr	\$ 300.00
<b>5.86</b>	<u>Re-Insulation / New insulation of above ground chilled water pipe Pre-insulated Black steel BS1387 Class C heavy grade seamed pipe with outer jacket of 0.6mm thick spiral locked galvanized sheet. Density - 45kg/m<sup>3</sup> CFC free. Thermal Conductivity - 0.017kcal/mh°C, Compressive strength - 2.0kg/m<sup>3</sup></u>		
<b>5.86.1</b>	Pipe size below 3" dia with 40mm insulation thickness	Mtr	\$ 100.00
<b>5.86.2</b>	Pipe size 4" and larger dia with 50mm insulation thickness	Mtr	\$ 150.00
<b>5.87</b>	<u>Double Regulating / Balancing Valve c/w G.I jacketing and PU insulation:</u>		
<b>5.87.1</b>	Pipe size below 3" dia.	No	\$ 3,500.00
<b>5.87.2</b>	Pipe Size 3 - 5" dia.	No	\$ 4,750.00
<b>5.87.3</b>	Pipe size 6 - 8" dia.	No	\$ 5,750.00
<b>5.87.4</b>	Pipe size 9 - 12" dia. And above	No	\$ 6,750.00
<b>5.88</b>	<u>3 way motorized valve c/w valve actuator, G.I Jaceting and PU &amp; Insulation:</u>		
<b>5.88.1</b>	Pipe size below 3" dia.	Lot	\$ 3,500.00
<b>5.88.2</b>	Pipe Size 3 - 5" dia.	Lot	\$ 4,750.00
<b>5.88.3</b>	Pipe size 6 - 8" dia.	Lot	\$ 5,750.00
<b>5.88.4</b>	Pipe size 9 - 12" dia. And above	Lot	\$ 6,750.00
<b>5.89</b>	<u>2 way motorized valve c/w valve actuator, G.I Jaceting and PU &amp; Insulation:</u>		
<b>5.89.1</b>	Pipe size below 3" dia.	Lot	\$ 1,200.00
<b>5.89.2</b>	Pipe Size 3 - 5" dia.	Lot	\$ 4,750.00
<b>5.89.3</b>	Pipe size 6 - 8" dia.	Lot	\$ 5,750.00
<b>5.89.4</b>	Pipe size 9" dia. and above	Lot	\$ 6,750.00
<b>5.90</b>	<u>Butterfly/ gate/ ball valve c/w valve actuator, G.I Jacketing and PU &amp; Insulation:</u>		
<b>5.90.1</b>	Pipe size below 3" dia.	Lot	\$ 250.00
<b>5.90.2</b>	Pipe Size 3 - 5" dia.	Lot	\$ 350.00
<b>5.90.3</b>	Pipe size 6 - 8" dia.	Lot	\$ 450.00
<b>5.90.4</b>	Pipe size 9" dia. And above	Lot	\$ 600.00
<b>5.91</b>	<u>Stainless steel Expansion Joint c/w valve actuator, G.I Jacketing and PU &amp; Insulation:</u>		
<b>5.91.1</b>	Pipe size below 3" dia.	Lot	\$ 350.00
<b>5.91.2</b>	Pipe Size 3 - 5" dia.	Lot	\$ 800.00
<b>5.91.3</b>	Pipe size 6 - 8" dia.	Lot	\$ 3,000.00
<b>5.91.4</b>	Pipe size 9" dia. And above	Lot	\$ 4,000.00



Item No.	Description	Unit	Rate
<b>5.92</b>	<u>Flexible Joint c/w valve actuator, G.I Jacketing and PU &amp; Insulation:</u>		
<b>5.92.1</b>	Pipe size below 3" dia.	Lot	\$ 150.00
<b>5.92.2</b>	Pipe Size 3 - 5" dia.	Lot	\$ 250.00
<b>5.92.3</b>	Pipe size 6 - 8" dia.	Lot	\$ 450.00
<b>5.92.4</b>	Pipe size 9" dia. And above	Lot	\$ 600.00
<b>5.93</b>	<u>Above Condenser Water Pipes with Galvanised Steel to ASTM Schedule 40 Galvanised Pipe inclusive elbow, tees, reducer and other standard fitting as total linear length</u>		
<b>5.93.1</b>	Pipe size below 3" dia.	Lot	\$ 50.00
<b>5.93.2</b>	Pipe Size 3 - 5" dia.	Lot	\$ 80.00
<b>5.93.3</b>	Pipe size 6 - 8" dia.	Lot	\$ 180.00
<b>5.93.4</b>	Pipe size 9" dia. And above	Lot	\$ 500.00
<b>5.94</b>	Re-insulation of Chilled water pipe c/w pre-formed polystyrene foam pipes with steel wire mesh and hard setting cement for pipe size greater than 3" / m2	Lot	\$ 150.00
<b>5.95</b>	<u>Chilled water Expansion Tank, Material: Stainless steel c/w Connection pipes and all necessary fittings, supporting brackets, armaxflex insulation, jacketing / PU Insulation and other materials to make good.</u>		
<b>5.95.1</b>	With capacity 1.0 m <sup>3</sup>	No.	\$ 1,500.00
<b>5.95.2</b>	With capacity 2.0 m <sup>3</sup>	No.	\$ 2,000.00
<b>5.96</b>	Lockout or pilot relay (any type, size or brand ) Volt AC or DC ( 0 to 240 volts)	No.	\$ 120.00
<b>5.97</b>	Indicator LED light (any colour / type / size) for control panel	No.	\$ 8.00
<b>5.98</b>	FCU digital controller switch including fan and temperature controller	Lot	\$ 150.00
<b>5.99</b>	Hand valves for Refrigerant line sizes less than 2" / m2	No.	\$ 200.00
<b>5.100</b>	<u>PVC Condensate drains pipe c/w fittings (bends, elbows, traps, tees etc.)</u>		
<b>5.100.1</b>	Pipe size below 1 1/2 " dia	Lot	\$ 20.00
<b>5.100.2</b>	Pipe Size 1 5/8" - 2" dia	Lot	\$ 30.00
<b>5.100.3</b>	Pipe size 2 1/4" - 4" dia	Lot	\$ 40.00
<b>5.101</b>	G.I drain pipe c/w fittings (bends, elbows, traps, tees, welding & brazing etc... 1/2" - 3")	Lot	\$ 30.00
<b>5.102</b>	<u>Delay timer switch (any type or size)</u>		
<b>5.102.1</b>	0 sec - 10 min, volt: AC or DC (0 to 240 volts)	No.	\$ 90.00
<b>5.102.2</b>	10.1 mins - 30mis, volt: AC or DC (0 to 240 volts)	No.	\$ 90.00
<b>5.103</b>	Remove defective damage Duct / AHU / Chiller / Pump or chilled waterline insulation and clean site	Mtr sq	\$ 15.00
<b>5.104</b>	Compressor unloader solenoid coil 120/240 VAC 50hz Carrier or equivalent	No	\$ 250.00
<b>5.105</b>	<u>Refrigerant Suction line filter drier as the following:</u>		
<b>5.105.1</b>	1/2" - 5/8" ODF	No	\$ 90.00
<b>5.105.2</b>	3/4" - 7/8" ODF	No	\$ 110.00
<b>5.105.3</b>	1/8" - 5/8" ODF	No	\$ 150.00
<b>5.106</b>	Cooling tower sprinkler head	No	\$ 1,500.00
<b>5.107</b>	Cooling tower infill (face area per sq. mtr)	Mtr sq	\$ 2,500.00



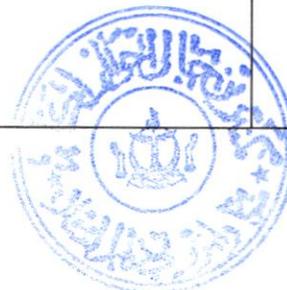
Item No.	Description	Unit	Rate
5.108	Cooling tower belting for fan motor	No	\$ 140.00
5.109	Repair Cooling tower Basin leaks with fiber glass and resin (whole) per leakage	Lot	\$ 150.00
5.110	Brass float valve c/w float assembly up to 2" dia	Lot	\$ 200.00
5.111	<u>Gate valve:</u>		
5.111.1	3" dia	No	\$ 250.00
5.111.2	4" dia	No	\$ 300.00
5.111.3	5" dia	No	\$ 400.00
5.111.4	8" dia	No	\$ 500.00
5.111.5	10" dia	No	\$ 600.00
5.111.6	12" dia	No	\$ 700.00
5.111.7	14" dia	No	\$ 1,000.00
5.112	<u>Strainer Whole assembly</u>		
5.112.1	Strainer 1/2"	No	\$ 100.00
5.112.2	Strainer 5/8"	No	\$ 150.00
5.112.3	Stariner 2"	No	\$ 200.00
5.112.4	Strainer 3"	No	\$ 300.00
5.112.5	Strainer 4"	No	\$ 400.00
5.112.6	Strainer above 4"	No	\$ 700.00
5.113	<u>Single PVC cable surface wiring in GI Metal conduit with trunking breaking rate 600VAC 50Hz as the following:</u>		
5.113.1	1.5 mm2	Mtr	\$ 5.00
5.113.2	2.5 mm2	Mtr	\$ 8.00
5.113.3	4 mm2	Mtr	\$ 10.00
5.113.4	6 mm2	Mtr	\$ 12.00
5.113.5	10 mm2	Mtr	\$ 14.00
5.113.6	16 mm2	Mtr	\$ 16.00
5.113.7	25 mm2	Mtr	\$ 18.00
5.113.8	35 mm2	Mtr	\$ 20.00
5.113.9	50 mm2	Mtr	\$ 22.00
5.114	Replaceable Air Pre-Filters media washable type, Carbon Filter & Insert Screen	Mtr. Sq	\$ 150.00
5.115	<u>Replaceable Air Pre-Filters, / Bag litter disposable, adhesive coated fiber glass with resistance not less than 80%</u>		
5.115.1	24" x 24" x 2"	No	\$ 60.00
5.115.2	12" x 24" x 2"	No	\$ 50.00
5.116	<u>4 core Armoured cable PVC/SWA/PVC, XPLE wiring on heavy gauge epoxy coated G.I metal trunking c/w aluminium, saddles, steel brackets, gland, cable lug, shrinking insulation, etc.... Rating: 1000VAC, 3ph, 50Hz</u>		
5.116.1	1.5 mm2	Mtr	\$ 98.00
5.116.2	2.5 mm2	Mtr	\$ 100.00
5.116.3	4 mm2	Mtr	\$ 110.00
5.116.4	6 mm2	Mtr	\$ 140.00
5.116.5	10 mm2	Mtr	\$ 150.00
5.116.6	16 mm2	Mtr	\$ 160.00
5.116.7	25 mm2	Mtr	\$ 170.00
5.116.8	35 mm2	Mtr	\$ 180.00
5.116.9	50 mm2	Mtr	\$ 190.00
5.116.10	70 mm2	Mtr	\$ 200.00
5.116.11	95 mm2	Mtr	\$ 220.00



Item No.	Description	Unit	Rate
5.116.12	120 mm2	Mtr	\$ 230.00
5.116.13	150 mm2	Mtr	\$ 240.00
5.116.14	185 mm2	Mtr	\$ 250.00
5.116.15	240 mm2	Mtr	\$ 280.00
5.117	Full set of communication control cabling for chiller	Lot	\$ 800.00
5.118	To supply and replace impeller for pump up to 400 mm dia	No	\$ 1,500.00
5.119	FRP 2000 mm dia cooling tower fan blade with hub, static and dynamic balanced and factory assembled by original manufacture	No	\$ 3,000.00
5.120	Cooling tower FRP lower (4pcs / set ) fan stack	Set	\$ 1,500.00
5.121	Cooling tower FRP upper (4pcs / set ) fan stack	Set	\$ 1,200.00
5.122	Cooling toer FRP hot water cooling tower basin	nos	\$ 300.00
5.123	VRF Unit, Thermistor Sensors used in Indoor or Outdoor Unit (Any type / make)	No	\$ 350.00
5.124	VRF Unit, Indoor Printed Circuit Board (Any brand / type)	No	\$ 450.00
5.125	VRF Unit, Compressor / Fan Motor IPDU (Any Brand / type / capacity )	No	\$ 650.00
5.126	VRF Unit, Outdoor Printed Circuit Board (Any Brand / type)	No	\$ 4,500.00
5.127	Supply and re-programming of any water / air cooled chillers PC board and all necessary equipment by chiller's specialist using autorised/ licensed chiller software c/w print out report in order to make the chillers run to normal working order.	Lot	\$ 2,500.00
5.128	To supply and replace a complete set of PLC controller in Air-Conditioning Main Switch Board / Chillers complete with contactors (any no. of points) including reprogramming the sequencing operation of all the equipment	Lot	\$ 1,000.00
5.129	<u>Supply and install of GRP expansion water tank including lay new G.I Pipes inlet and outlet pipes c/w connection pipes with all necessary fittings, bolts and nuts, supporting brackets, armaflex insulation, jacketing / PU isulation and other materials to make good</u>		
5.129.1	With capacity 1.0 m <sup>3</sup>	Lot	\$ 1,200.00
5.129.2	With capacity 2.0 m <sup>3</sup>	Lot	\$ 1,500.00
5.129.3	With capacity 3.0 m <sup>3</sup>	Lot	\$ 2,500.00
5.130	<u>To Supply and install extruded aluminium (egg crate) return Air grills c/w all accessories and fitting including opening / hacking the cement/gypsum/steel board ceiling for the installation/replacement of the grills at associated area.</u>		
5.130.1	Size : 600mm x 600mm	No	\$ 100.00
5.130.2	Size : 300mm x 600mm	No	\$ 80.00
5.130.3	Size : 300mm x 300mm	No	\$ 70.00
5.131	<u>To supply and install extruded aluminium 4-way supply Air Diffusers c/w aluminium opposed blade volume control damper and all cement/gypsum/steel board ceiling for the installation/replacement of the grills at associated area.</u>		
5.131.1	Size :600mm x 600mm (NS to suit capacity)	No	\$ 150.00
5.131.2	Size: 300mm x 300mm (NS to suit capacity)	No	\$ 120.00



Item No.	Description	Unit	Rate
<b>5.132</b>	<u>Pre-insulated flexible duct</u>		
<b>5.132.1</b>	200 mm2	Mtr	\$ 25.00
<b>5.132.2</b>	300 mm2	Mtr	\$ 30.00
<b>5.132.3</b>	500 mm2	Mtr	\$ 35.00
<b>5.133</b>	<u>VAV unit - shall be of pressure independent type of VAV Box c/w external insulation, bracket, supports and all necessary accessories. The VAV box should be able to modulate the air supply between 20% - 120% of the air capacity indicated below.</u>		
<b>5.133.1</b>	100 - 300 L/s	No	\$ 500.00
<b>5.133.2</b>	301 - 500 L/s	No	\$ 550.00
<b>5.133.3</b>	501 - 700 L/s	No	\$ 600.00
<b>5.133.4</b>	701 - 900 L/s	No	\$ 650.00
<b>5.133.5</b>	901 - 1200 L/s	No	\$ 700.00
<b>5.133.6</b>	1201 L/s and above	No	\$ 900.00
<b>5.134</b>	To Provide acoustic treatment for AHU wall with 50mm thick / 80kg/m <sup>3</sup> density rigid rockwool c/w treated timber framing/support and perforated G.I sheet (24g) with 5mm diameter holes evenly distributed on 20% of the panel c/w labour and all necessary tools, scaffolding, dismantling and install back all the electrical cabling, lighting fitting, switches, sockets, fire alarm system, AHU control panel, trunking or conduits and all necessary appliances or instruments inside the AHU rooms.	Mtr. Sq.	\$ 70.00
<b>5.135</b>	Approved type of Fire Damper (Wall Mounted type) c/w fusible links and damper access panel in duct c/w all necessary support, bracket, fitting & accessories. (any type / any size)	No	\$ 300.00
<b>5.136</b>	Approved type of Acoustic lining 25mm thick (Density 100kg/m <sup>3</sup> ), absorption coefficient at 100Hz frequency 0.92 or higher	Mtr. Sq.	\$ 30.00
<b>5.137</b>	Approved type of flexible canvas of flame retardant fabric for AHU/Exhaust fan at intake/discharge side/outlet connection	Mtr. Sq.	\$ 50.00
<b>5.138</b>	<u>To supply and replace of control PCB for wall / ceiling / cassette and ducted chilled water fan coil unit:-</u>		
<b>5.138.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No	\$ 150.00
<b>5.138.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No	\$ 200.00
<b>5.138.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No	\$ 250.00
<b>5.138.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No	\$ 300.00
<b>5.138.5</b>	60,001 Btu/hr and above	No	\$ 350.00
<b>5.139</b>	<u>To supply and replace with OEM Communication PC board for scroll compressor for Air Cooled Chiller (Model No : Danfoss, SH300A4ACB, 380-400V, 3ph, 50hz, IRA 260 A) complete with compressor heater, communication PC Board including Blanket insulation</u>		
<b>5.139.1</b>	10hp - 20hp	No	\$ 800.00
<b>5.139.2</b>	21hp - 30hp	No	\$ 1,000.00
<b>5.139.3</b>	31hp - 40hp	No	\$ 1,200.00
<b>5.140</b>	<u>To supply and replace with OEM Contactor for scroll compressor for Air Cooled Chiller (Model No : Danfoss, SH300A4ACB, 380-400V, 3ph, 50hz, IRA 260 A) complete with compressor heater, communication PC Board including Blanket insulation</u>		
<b>5.140.1</b>	10hp - 20hp	No	\$ 150.00
<b>5.140.2</b>	21hp - 30hp	No	\$ 200.00
<b>5.140.3</b>	31hp - 40hp	No	\$ 250.00



Item No.	Description	Unit	Rate
5.141	To supply and replace the support bracket inside cooling (Brace H.D.G steel) c/w tensioner	No	\$ 140.00
5.142	2" gate valve for drain basin of cooling towers	No	\$ 75.00
5.143	Amp meter 0 -120A	No	\$ 120.00
5.144	Voltmeter 0 - 500V	No	\$ 120.00
5.145	Smoke Detctor (Dual Sensor) c/w control wiring	No	\$ 120.00
5.146	<u>BAS FIELD DEVICES</u>		
5.146.1	Current Transducer ( 3 Phase)	No	\$ 200.00
5.146.2	Voltage Transducer (3 Phase)	No	\$ 200.00
5.146.3	Outdoor Air Temperature Outdoor Sensor	No	\$ 200.00
5.146.4	Outdoor Air Humidity Sensor	No	\$ 350.00
5.146.5	Kilowatt-Hour metering transducer	No	\$ 350.00
5.146.6	BTU meter c/w display (LCD) showing total btu, Demand BTU, Flow rate and inlet/outlet temperature	Lot	\$ 2,200.00
5.146.7	Water level switch	No	\$ 150.00
5.146.8	Filter dirty sensor	No	\$ 150.00
5.146.9	Supply/return Air Temperature Sensor	No	\$ 200.00
5.146.10	CHW Supply / return temperature Sensor	No	\$ 200.00
5.146.11	Limit switch for fire Damper	No	\$ 150.00
5.146.12	Discharge Temperatur Sensor	No	\$ 350.00
5.146.13	Duct Pressure Sensor	No	\$ 350.00
5.146.14	Off coil Air Temperature Sensor	No	\$ 150.00
5.146.15	Heater Current Valve	No	\$ 300.00
5.146.16	High Temperature Switch	No	\$ 250.00
5.146.17	Air Flow Sensor / Switch	No	\$ 250.00
5.146.18	Return Air Humidity Sensor	No	\$ 350.00
5.146.19	Room Humidity Sensor	No	\$ 200.00
5.146.20	Room Temperature Sensor	No	\$ 300.00
5.146.21	Motorized Duct Damper Actuator	No	\$ 450.00
5.147	Standalone DDC Controller c/w re-programmable, real time clock with battery back-up microprocessor. No I/O points to peer communication.	No	\$ 2,200.00
5.148	<u>TAC Xenta programmable Controller c/w re-programmable - I/O module controller for I/O extension:</u>		
5.148.1	8 -10 physical input / output point	No	\$ 750.00
5.148.2	8 -16 physical input / output point	No	\$ 850.00
5.148.3	8 -20 physical input / output point	No	\$ 950.00
5.149	VSD modulator sensor	No	\$ 350.00
5.150	Filter pressure differential swtuch / alarm / tansverse probe	No	\$ 180.00
5.151	Electro magnetic water flow meter c/w remote mounting signal converter	No	\$ 2,000.00
5.152	Evaporator Coil for Prcision Air Conditioning (Any Brand / type / capacity)	No	\$ 4,000.00
5.153	Door Beading rubber insulation (air tight) for AHU door panel. (Any Brand / type)	No	\$ 50.00
5.154	Door Handle / lever for AHU door panel. (Any Brand / type)	No	\$ 45.00



Item No.	Description	Unit	Rate
<b>5.155</b>	<u>To supply and install complete set end suction pump c/w motor (any make)</u>		
<b>5.155.1</b>	1 - 5 HP	No	\$ 1,200.00
<b>5.155.2</b>	5.1 -10 HP	No	\$ 2,500.00
<b>5.155.3</b>	10.1 - 20 HP	No	\$ 4,500.00
<b>5.155.4</b>	20.1 - 40 HP	No	\$ 5,500.00
<b>5.155.5</b>	40.1 - 60 HP	No	\$ 7,500.00
<b>5.155.6</b>	60.1 - 80 HP	No	\$ 8,500.00
<b>5.156</b>	<u>To supply and install complete set vertical c/w motor (any make)</u>		
<b>5.156.1</b>	1 - 5 HP	No	\$ 1,500.00
<b>5.156.2</b>	5.1 -10 HP	No	\$ 2,800.00
<b>5.156.3</b>	10.1 - 20 HP	No	\$ 5,500.00
<b>5.156.4</b>	20.1 - 40 HP	No	\$ 6,500.00
<b>5.156.5</b>	40.1 - 60 HP	No	\$ 9,500.00
<b>5.156.6</b>	60.1 - 80 HP	No	\$ 11,000.00
<b>5.157</b>	Room Thermostat - The controller shall be electronically lockable and set point to be access only via a standard laptop / Notebook / palmtop computer	No	\$ 150.00
<b>5.158</b>	To supply and install a Micro Plate Heat Exchanger (Model: C62 - E - 94) for carrier chiller (Model: 30xA0752) c/w flushing, draining, welding / brazing to make it works to normal working order	No	\$ 17,000.00
<b>5.159</b>	Conductivity Controller	No	\$ 1,200.00
<b>5.160</b>	TDS Sensor	No	\$ 350.00
<b>5.161</b>	Dosing pump minimum 5 bars	No	\$ 450.00
<b>5.162</b>	Eco Green alkaline base corrosion habitor	No	\$ 20.00
<b>5.163</b>	Eco Green bio side chemicals	No	\$ 20.00
<b>5.164</b>	Eco Green bio back up side chemicals	No	\$ 20.00
<b>5.165</b>	Eco Green cleaning chemicals	No	\$ 30.00
<b>5.166</b>	By pass solenoid valve suitable for water for blow off c/w Tower	No	\$ 350.00
<b>5.167</b>	Descale chiller condenser barrel using machine / proper tools and gasket set (manual roding not allowed) monitoring submit daily delta temperature reading	No	\$ 1,800.00
<b>5.168</b>	Digital direct controller with programme on site	No	\$ 2,500.00
<b>5.169</b>	To Supply and replace capacitor bank for chiller main switchboard maximum 15k	No	\$ 350.00
<b>5.170</b>	Overhaul chilled / cond vertical pumps c/w seal kit, o ring, gasket set etc	No	\$ 450.00
<b>5.171</b>	To repair gas leak or compressor oil, pump down gas if required, rectify the leakage, top up gas and oil to right quanttity and run the chiller on site, monitor the operation on daily basis	No	\$ 2,500.00
<b>5.172</b>	To supply and replace frequency inverter connection of wiring, test and run the unit back to normal working order	No	\$ 2,800.00



Item No.	Description	Unit	Rate
<b>5.173</b>	<u>Non return Valve (NRV)</u>		
<b>5.173.1</b>	PVC Pipe Size : 3" dia	No	\$ 450.00
<b>5.173.2</b>	PVC Pipe Size : above 3" dia up to 6" dia	No	\$ 750.00
<b>5.173.3</b>	PVC Pipe Size: 8" to 10" dia	No	\$ 950.00
<b>5.173.4</b>	PVC Pipe Size : above 10" dia	No	\$ 1,200.00
<b>5.174</b>	AHU Blower pulley (Any type / size)	No	\$ 380.00
<b>5.175</b>	AHU Motor Pulley (Any type /size)	No	\$ 380.00
<b>5.176</b>	<u>AHU : Forward curved double inlet centrifugal fan (Blower) assy</u>		
<b>5.176.1</b>	5 TR to 10 TR	No	\$ 1,200.00
<b>5.176.2</b>	11 TR to 25 TR	No	\$ 2,800.00
<b>5.176.3</b>	26 TR to 40 TR	No	\$ 4,200.00
<b>5.176.4</b>	41 TR to 60 TR	No	\$ 8,600.00
<b>5.176.5</b>	Above 61 TR	No	\$ 12,000.00
<b>5.177</b>	Cooling Thermostat (for AHU & FCU)	No	\$ 480.00
<b>5.178</b>	<u>AHU Duct Heater (any Brand)</u>		
<b>5.178.1</b>	600 watts	No	\$ 800.00
<b>5.178.2</b>	900 watts	No	\$ 800.00
<b>5.178.3</b>	1000 watts	No	\$ 900.00
<b>5.178.4</b>	1200 watts	No	\$ 900.00
<b>5.178.5</b>	2000 watts	No	\$ 900.00
<b>5.179</b>	<u>Flexible duct c/w fiber glass insulation</u>		
<b>5.179.1</b>	200 sq.mm	Mtr	\$ 160.00
<b>5.179.2</b>	300 sq.mm	Mtr	\$ 250.00
<b>5.179.3</b>	500 sq.mm	Mtr	\$ 320.00
<b>5.180</b>	AHU panel (door) Gasket	No	\$ 35.00
<b>5.181</b>	<u>AHU : Pre Air Filter c/w G.I Frame assy.</u>		
<b>5.181.1</b>	Size : 12 " x 24" x 2"	No	\$ 180.00
<b>5.181.2</b>	Size: 24" x 24" x 2"	No	\$ 260.00
<b>5.182</b>	<u>Medium efficiency filter ultra fine glass fiber media suitably supported and reinforced, initial resistance (clean) shall be 4" w.g @ 500 rpm air velocity dust spot efficiency 85% suitable for insulation in AA ASTROSEAL or as approved by BESS:</u>		
<b>5.182.1</b>	24" x 24" x 12"	No	\$ 460.00
<b>5.182.2</b>	24" x 12" x 12"	No	\$ 580.00
<b>5.183</b>	<u>High efficiency filter HEPA type in metal frame waterproofed, fire retardant, efficiency not less than 95% by DOP initial resistance not less than 1" w.g:</u>		
<b>5.183.1</b>	24" x 24" x 12"	No	\$ 1,650.00
<b>5.183.2</b>	24" x 12" x 12"	No	\$ 1,350.00
<b>5.184</b>	Fine Dust filters LUWA FP-85-P305	No	\$ 1,200.00
<b>5.185</b>	Fine Dust filters LUWA FP-85-P610	No	\$ 1,200.00
<b>5.186</b>	Ultra Fine V-filters LUWA 412350070	No	\$ 1,350.00
<b>5.187</b>	<u>Camfil absolute filters type MDEPA, air velocity 0.86m3 / S670m3/h, 250Pa:</u>		
<b>5.187.1</b>	Size 457mm x 457mm x 150mm	No	\$ 1,450.00
<b>5.187.2</b>	Size 610mm x 610mm x 150mm	No	\$ 1,750.00



Item No.	Description	Unit	Rate
5.188	Alpha cell HEPA filters ACG2-122412 Size 12' x 24' x 11.5'	No	\$ 1,650.00
5.189	Supply & install cooling tower intake louvers.	No	\$ 600.00
5.190	<u>Electrical Motor for cooling towers:</u>		
5.190.1	Up to 5HP	No	\$ 1,600.00
5.190.2	6HP - 10HP	No	\$ 2,300.00
5.191	FRP 2000mm dia cooling tower fan balde with hub, static and dynamic balanced and factory assembled by original manufacture	No	\$ 4,500.00
5.192	cooling tower FRP hot water cooling tower basin	No	\$ 3,500.00
5.193	cooling tower supporting rods and brackets for infill	No	\$ 600.00
5.194	cooling tower tension rod	No	\$ 250.00
5.195	check valve (any type /size)	No	\$ 550.00
5.196	Ventillation Fan for chiller Control Panel and VSD Drive (any type / size)	No	\$ 450.00
5.197	<u>Fuse (any Type / Size):</u>		
5.197.1	101 - 250amps	No	\$ 250.00
5.197.2	251 - 400amps	No	\$ 350.00
5.198	<u>Fuse switch Barrier (Disconnecter) for YORK chiller (any other type chillers):</u>		
5.198.1	5 - 20amps	No	\$ 450.00
5.198.2	25 - 50amps	No	\$ 650.00
5.198.3	51 - 100amps	No	\$ 1,200.00
5.198.4	101 - 250amps	No	\$ 1,400.00
5.198.5	251 - 500amps	No	\$ 1,800.00
5.199	<u>Single PVC cable surface wiring in PVC / G.I metal conduit or with trunking:</u>		
5.199.1	6 mm <sup>2</sup>	Mtr	\$ 25.00
5.199.2	10 mm <sup>2</sup>	Mtr	\$ 40.00
5.199.3	16 mm <sup>2</sup>	Mtr	\$ 60.00
5.199.4	25 mm <sup>2</sup>	Mtr	\$ 80.00
5.199.5	35 mm <sup>2</sup>	Mtr	\$ 100.00
5.199.6	50 mm <sup>2</sup>	Mtr	\$ 130.00
5.200	<u>To rewind Electrical Motors c/w resurfacing, new bearings, with any rpm including 9 months warranty:</u>		
5.200.1	5 - 7.5HP	No	\$ 1,350.00
5.200.2	10 - 15 HP	No	\$ 1,600.00
5.200.3	16 - 35 HP	No	\$ 2,600.00
5.200.4	36 - 50 HP	No	\$ 3,800.00
5.200.5	51 - 100 HP	No	\$ 4,600.00
5.200.6	101 - 250 HP	No	\$ 9,500.00
5.200.7	Above 250 HP	No	\$ 18,000.00
5.201	Refrigerant Level Sensor (any type / size)	No	\$ 3,200.00
5.202	Power Relay Board	No	\$ 1,600.00
5.203	Compressor Stage Controller Timer (any type)		\$ 2,800.00
5.204	Control Transformer for chiller (any type / size)	No	\$ 2,600.00



Item No.	Description	Unit	Rate
5.205	Step down transformer for chiller (any type / size)	No	\$ 1,800.00
5.206	Local Interface device	No	\$ 2,100.00
5.207	S.C.R	No	\$ 1,200.00
5.208	<u>Thermostatic / Electronic expansion valve :</u>		
5.208.1	5 - 10 TR	No	\$ 1,250.00
5.208.2	11 - 30 TR	No	\$ 1,600.00
5.208.3	31 - 60 TR	No	\$ 1,850.00
5.208.4	61 - 100 TR	No	\$ 2,600.00
5.208.5	101 - 250 TR	No	\$ 3,200.00
5.209	<u>Compressor service valve:</u>		
5.209.1	½ - ¾ "	No	\$ 350.00
5.209.2	¾ - 1½ "	No	\$ 780.00
5.209.3	1 ¾ - 2½ "	No	\$ 1,200.00
5.210	<u>Semi hermetic compressor (any Brand / Type):</u>		
5.210.1	5 - 10 HP	No	\$ 6,500.00
5.210.2	11 - 25 HP	No	\$ 12,500.00
5.210.3	26 - 60 HP	No	\$ 16,500.00
5.210.4	61 - 100 HP	No	\$ 22,000.00
5.211	<u>Plate Heat Exchanger (PHE)</u>		
5.211.1	Up to 15TR	No	\$ 9,500.00
5.211.2	16 TR - 30 TR	No	\$ 13,500.00
5.211.3	31 TR - 60 TR	No	\$ 18,000.00
5.211.4	61 TR - 80 TR	No	\$ 24,000.00
5.211.5	81 TR - 100 TR	No	\$ 32,000.00
5.211.6	Above 100 TR	No	\$ 36,000.00
5.212	<u>Scroll compressor (any Brand / type)</u>		
5.212.1	5 - 10 HP	No	\$ 9,800.00
5.212.2	11 - 25 HP	No	\$ 13,500.00
5.212.3	26 - 60 HP	No	\$ 24,000.00
5.212.4	61 - 100 HP	No	\$ 36,000.00
5.213	<u>To service Industrial / Barrel type exhaust fan:</u>		
5.213.1	15 - 24"	No	\$ 350.00
5.213.2	Above 25"	No	\$ 600.00
5.214	<u>To supply &amp; install Barrel (Centrifugal) type exhaust fan c/w, mounting plate, bracket as required and to provide power supply c/w on/off switch from the nearest DB.</u>		
5.214.1	Up to 10"	No	\$ 1,600.00
5.214.2	12 " to 14 "	No	\$ 1,800.00
5.214.3	15 " to 20 "	No	\$ 2,500.00
5.214.4	20 " to 30 "	No	\$ 2,800.00
5.214.5	Above 35 "	No	\$ 3,500.00
5.215	Wire Harness Branching Male to Female	No	\$ 650.00
5.216	Wire Harness Branching Female to male	No	\$ 650.00
5.217	Male Connector	No	\$ 360.00
5.218	Female Connector	No	\$ 360.00



Item No.	Description	Unit	Rate
5.219	Control PCB c/w reprogramming and binding works (any type)	No	\$ 1,650.00
5.220	AHU blower wheel assembly complete set with installation		
5.220.1	2.0 - 7.5 HP	Set	\$ 3,500.00
5.220.2	7.5 - 15 HP	Set	\$ 4,500.00
5.221	AHU motor		
5.221.1	2.0 - 7.5 HP	No	\$ 5,000.00
5.221.2	7.5 - 15 HP	No	\$ 7,500.00
5.222	Chiller universal sensor kit	No	\$ 3,000.00
5.223	Piston and compression ring set	Set	\$ 550.00
5.224	Connecting Rod	Set	\$ 600.00
5.225	Fully Synthetic POE Type compressor oil	Tin	\$ 1,800.00
5.226	Overhauling of defective reciprocating type compressor c/w new piston, ring set & connecting rod assembly, gaskets, run back to optimum working condition		
5.226.1	25 - 50HP	Lot	\$ 7,000.00
5.226.2	50 - 75HP	Lot	\$ 10,000.00
5.227	VRF / VRV noise filter	No	\$ 750.00
5.228	VRF / VRV lizard and rat protection kit	No	\$ 300.00
5.229	High Pressure liquid level sensor	No	\$ 2,500.00
5.230	Chilled water FCU thermistor sensor	No	\$ 450.00
5.231	Chilled water FCU motor any type	No	\$ 750.00
5.232	Chiller Logic Control Board / VSD Logic Board	No	\$ 5,900.00
5.233	AHU Blower Pulley any size	No	\$ 350.00
5.234	Supply of new scroll type compressors 15 - 30 HP	No	\$ 20,000.00
5.235	Supply of new screw type compressors 30 - 50 HP	No	\$ 50,000.00
5.236	Supply of new screw type compressors 50 - 75HP	No	\$ 75,000.00
5.237	To replace old ducting with new ducting c/w alteration of ceiling or ducting, apply cement and putty to match existing in good condition	No	\$ 350.00
5.238	Gate Driver Board	No	\$ 17,940.00
6.0	<b><u>ROUTINE AND GENERAL SERVICING OF AIR CONDITIONING TYPE RAC/DX PACKAGE TYPE / SPLIT UNIT / VRF / AIR CURTAIN</u></b>		
6.1	<b><u>ROUTINE SERVICING ' for the following unit:</u></b>		
6.1.1	<u>RAC Type</u>		
6.1.1.1	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 10.00
6.1.1.2	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 15.00



Item No.	Description	Unit	Rate
<b>6.1.2</b>	<u>Wall mounted Split / DX Package Type</u>		
<b>6.1.2.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 10.00
<b>6.1.2.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 15.00
<b>6.1.2.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 20.00
<b>6.1.2.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 25.00
<b>6.1.3</b>	<u>Under Ceiling Split / Dx Package Type</u>		
<b>6.1.3.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 10.00
<b>6.1.3.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 15.00
<b>6.1.3.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 20.00
<b>6.1.3.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 25.00
<b>6.1.3.5</b>	60,001 Btu/hr and above	Set	\$ 30.00
<b>6.1.4</b>	<u>Casette Split / Dx Package Type</u>		
<b>6.1.4.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 15.00
<b>6.1.4.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 20.00
<b>6.1.4.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 25.00
<b>6.1.4.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 25.00
<b>6.1.4.5</b>	60,001 Btu/hr and above	Set	\$ 30.00
<b>6.1.5</b>	<u>Floor Standing Split / Dx Package Type</u>		
<b>6.1.5.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 10.00
<b>6.1.5.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 15.00
<b>6.1.5.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 20.00
<b>6.1.5.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 25.00
<b>6.1.5.5</b>	60,001 Btu/hr and above	Set	\$ 30.00
<b>6.1.6</b>	<u>Close Control Unit</u>		
<b>6.1.6.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 30.00
<b>6.1.6.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 40.00
<b>6.1.6.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 60.00
<b>6.1.6.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 80.00
<b>6.1.7</b>	<u>Variable Refrigerant Flow Condensing unit (VRF)</u>		
<b>6.1.7.1</b>	10 - 15 TR	No.	\$ 30.00
<b>6.1.7.2</b>	16 - 20 TR	No.	\$ 40.00
<b>6.1.7.3</b>	21 - 25 TR	No.	\$ 60.00
<b>6.1.7.4</b>	26 - 30 TR	No.	\$ 80.00
<b>6.1.7.5</b>	31 - 40 TR	No.	\$ 100.00
<b>6.1.7.6</b>	41 TR and above	No.	\$ 120.00
<b>6.1.8</b>	<u>Variable Refrigerant Flow Fan Coil unit of any type (VRF) as the following:</u>		
<b>6.1.8.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 15.00
<b>6.1.8.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 18.00
<b>6.1.8.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 20.00
<b>6.1.8.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No.	\$ 25.00
<b>6.1.8.5</b>	60,001 Btu/hr and above	No.	\$ 30.00
<b>6.1.9</b>	<u>Air Cooled' Package Type (Condenser Unit) of any type of compressor with the following capacity:</u>		
<b>6.1.9.1</b>	10 - 50 TR	No.	\$ 100.00
<b>6.1.9.2</b>	51 - 100 TR	No.	\$ 120.00
<b>6.1.10</b>	<u>Air Curtain</u>	No.	\$ 5.00
	3 - 6ft		



Item No.	Description	Unit	Rate
<b>6.1.11</b>	<u>Exhaust Fan of Any Type</u>		
<b>6.1.11.1</b>	6"	No.	\$ 5.00
<b>6.1.11.2</b>	9"	No.	\$ 5.00
<b>6.1.11.3</b>	12"	No.	\$ 5.00
<b>6.1.11.4</b>	15"	No.	\$ 5.00
<b>6.1.12</b>	<u>'Air Handling Unit' of any type with the following capacity:</u>		
<b>6.1.12.1</b>	15 - 50 TR	No.	\$ 40.00
<b>6.1.12.2</b>	50.1 -above	No.	\$ 60.00
<b>6.2</b>	<u>'GENERAL SERVICING' for the following unit:</u>		
<b>6.2.1</b>	<u>RAC type</u>		
<b>6.2.1.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 50.00
<b>6.2.1.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 60.00
<b>6.2.2</b>	<u>Wall Mounted Split / DX Package Type</u>		
<b>6.2.2.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 100.00
<b>6.2.2.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 120.00
<b>6.2.2.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 140.00
<b>6.2.2.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 160.00
<b>6.2.3</b>	<u>Under Ceiling Split / DX Package Type</u>		
<b>6.2.3.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 100.00
<b>6.2.3.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 120.00
<b>6.2.3.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 140.00
<b>6.2.3.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 160.00
<b>6.2.3.5</b>	60,001 Btu/hr and above	Set	\$ 180.00
<b>6.2.4</b>	<u>Casette Split / DX Package Type</u>		
<b>6.2.4.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 60.00
<b>6.2.4.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 80.00
<b>6.2.4.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 100.00
<b>6.2.4.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 120.00
<b>6.2.4.5</b>	60,001 Btu/hr and above	Set	\$ 140.00
<b>6.2.5</b>	<u>Floor standing Split / DX Package Type</u>		
<b>6.2.5.1</b>	9,000 Btu/hr to 12,000 Btu/hr	Set	\$ 60.00
<b>6.2.5.2</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 80.00
<b>6.2.5.3</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 100.00
<b>6.2.5.4</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 120.00
<b>6.2.5.5</b>	60,001 Btu/hr and above	Set	\$ 140.00
<b>6.2.6</b>	<u>Close Control Unit</u>		
<b>6.2.6.1</b>	18,000 Btu/hr to 24,000 Btu/hr	Set	\$ 60.00
<b>6.2.6.2</b>	30,000 Btu/hr to 36,000 Btu/hr	Set	\$ 80.00
<b>6.2.6.3</b>	36,001 Btu/hr to 60,000 Btu/hr	Set	\$ 100.00
<b>6.2.6.4</b>	60,001 Btu/hr and above	Set	\$ 120.00
<b>6.2.7</b>	<u>Variable Refrigerant Flow Condensing unit (VRF)</u>		
<b>6.2.7.1</b>	10 - 15 TR	No.	\$ 120.00
<b>6.2.7.2</b>	16 - 20 TR	No.	\$ 130.00
<b>6.2.7.3</b>	21 - 25 TR	No.	\$ 140.00
<b>6.2.7.4</b>	26 - 30 TR	No.	\$ 150.00
<b>6.2.7.5</b>	31 - 40 TR	No.	\$ 160.00
<b>6.2.7.6</b>	41 TR and above	No.	\$ 170.00



Item No.	Description	Unit	Rate
<b>6.2.8</b>	<u>Variable Refrigerant Flow Fan Coil unit of any type (VRF) as the following:</u>		
<b>6.2.8.1</b>	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 25.00
<b>6.2.8.2</b>	18,000 Btu/hr to 24,000 Btu/hr	No.	\$ 30.00
<b>6.2.8.3</b>	30,000 Btu/hr to 36,000 Btu/hr	No.	\$ 35.00
<b>6.2.8.4</b>	36,001 Btu/hr to 60,000 Btu/hr	No.	\$ 40.00
<b>6.2.8.5</b>	60,001 Btu/hr and above	No.	\$ 45.00
<b>6.2.9</b>	<u>'Air Cooled' Packaged Type (Condenser Unit) of any type of compressor with the following capacity:</u>		
<b>6.2.9.1</b>	10 - 50 TR	No.	\$ 160.00
<b>6.2.9.2</b>	51 - 100 TR	No.	\$ 170.00
<b>6.2.10</b>	<u>'Air Handling Unit' of any type of compressor with the following capacity:</u>		
	<u>c/w chemical cleaning</u>		-
<b>6.2.10.1</b>	15 - 50 TR	No.	\$ 50.00
<b>6.2.10.2</b>	50.1 - above	No.	\$ 100.00
<b>7.0</b>	<b><u>ROUTINE MAINTENANCE &amp; GENERAL SERVICING OF CENTRAL AIR CONDITIONING SYSTEM &amp; ASSOCIATED EQUIPMENT</u></b>		
<b>7.1</b>	<b><u>ROUTINE SERVICING for the following equipment:</u></b>		
<b>7.1.1</b>	<u>Water Cooled chiller of any type of compressor with the following capacity:</u>		
<b>7.1.1.1</b>	100 -200 TR	No.	\$ 150.00
<b>7.1.1.2</b>	201-300 TR	No.	\$ 200.00
<b>7.1.1.3</b>	301 - 400 TR	No.	\$ 300.00
<b>7.1.1.4</b>	401 - 500 TR	No.	\$ 400.00
<b>7.1.1.5</b>	501 - 600 TR	No.	\$ 500.00
<b>7.1.1.6</b>	601 - 700 TR	No.	\$ 600.00
<b>7.1.1.7</b>	701 - above	No.	\$ 700.00
<b>7.1.2</b>	<u>Air Cooled chiller of any type of compressor with the following capacity:</u>		
<b>7.1.2.1</b>	100 - 200TR	No.	\$ 150.00
<b>7.1.2.2</b>	201 - 300TR	No.	\$ 200.00
<b>7.1.2.3</b>	301 - 400TR	No.	\$ 300.00
<b>7.1.2.4</b>	401 - above	No.	\$ 400.00
<b>7.1.3</b>	<u>Chilled Water pump set (primary / secondary) of any type and compressor with the following capacity:</u>		
<b>7.1.3.1</b>	1 - 5 HP	No.	\$ 25.00
<b>7.1.3.2</b>	5.1 - 10 HP	No.	\$ 30.00
<b>7.1.3.3</b>	10.1 - 15 HP	No.	\$ 35.00
<b>7.1.3.4</b>	15.1 - 20 HP	No.	\$ 40.00
<b>7.1.3.5</b>	20.1 - 50 HP	No.	\$ 45.00
<b>7.1.3.6</b>	50.1 - above	No.	\$ 50.00
<b>7.1.4</b>	<u>Cooling tower' of any type of the following capacity:</u>		
<b>7.1.4.1</b>	100 - 200 TR	No.	\$ 150.00
<b>7.1.4.2</b>	201 - 500 TR	No.	\$ 250.00
<b>7.1.4.3</b>	501 - above	No.	\$ 300.00
<b>7.1.5</b>	<u>Condenser water pump set' of any type of the following capacity:</u>		
<b>7.1.5.1</b>	1 - 5 HP	No.	\$ 25.00
<b>7.1.5.2</b>	5.1 - 10 HP	No.	\$ 30.00
<b>7.1.5.3</b>	10.1 - 15 HP	No.	\$ 35.00
<b>7.1.5.4</b>	15.1 - 20 HP	No.	\$ 40.00



Item No.	Description	Unit	Rate
7.1.5.5	20.1 - 50 HP	No.	\$ 45.00
7.1.5.6	50.1 - above	No.	\$ 50.00
7.1.6	<u>Air Handling Unit' of any type with the following capacity:</u>		
7.1.6.1	15-50 TR	No.	\$ 40.00
7.1.6.2	50.1 - above	No.	\$ 60.00
7.1.7	VAV BOX	Lot	\$ 10.00
7.1.8	<u>Chilled water fan coil unit any type as the following:</u>		
7.1.8.1	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 15.00
7.1.8.2	12,001 Btu/hr to 24,000 Btu/hr	No.	\$ 20.00
7.1.8.3	24,001 Btu/hr to 60,000 Btu/hr	No.	\$ 25.00
7.1.8.4	60,001 Btu/hr and above	No.	\$ 30.00
7.2	<b>GENERAL SERVICING for the following equipment:</b>		
7.2.1	<u>Water Cooled chiller of any type of compressor with the following capacity:</u>		
7.2.1.1	100 -200 TR	No.	\$ 3,500.00
7.2.1.2	201-300 TR	No.	\$ 4,000.00
7.2.1.3	301 - 400 TR	No.	\$ 4,500.00
7.2.1.4	401 - 500 TR	No.	\$ 5,000.00
7.2.1.5	501 - 600 TR	No.	\$ 5,500.00
7.2.1.6	601 - 700 TR	No.	\$ 7,000.00
7.2.1.7	701 - above	No.	\$ 8,000.00
7.2.2	<u>Air Cooled chiller of any type of compressor with the following capacity:</u>		
7.2.2.1	100 - 200TR	No.	\$ 1,500.00
7.2.2.2	201 - 300TR	No.	\$ 2,000.00
7.2.2.3	301 - 400TR	No.	\$ 3,000.00
7.2.2.4	401 - above	No.	\$ 4,000.00
7.2.3	<u>Chilled Water pump set (primary / secondary) of any type and compressor with the following capacity:</u>		
7.2.3.1	1 - 5 HP	No.	\$ 20.00
7.2.3.2	5.1 - 10 HP	No.	\$ 25.00
7.2.3.3	10.1 - 15 HP	No.	\$ 30.00
7.2.3.4	15.1 - 20 HP	No.	\$ 35.00
7.2.3.5	20.1 - 50 HP	No.	\$ 40.00
7.2.3.6	50.1 - above	No.	\$ 45.00
7.2.4	<u>Cooling tower' of any type of the following capacity:</u>		
7.2.4.1	100 - 200 TR	No.	\$ 150.00
7.2.4.2	201 - 500 TR	No.	\$ 200.00
7.2.4.3	501 - above	No.	\$ 250.00
7.2.5	<u>Condenser water pump set' of any type of the following capacity:</u>		
7.2.5.1	1 - 5 HP	No.	\$ 25.00
7.2.5.2	5.1 - 10 HP	No.	\$ 30.00
7.2.5.3	10.1 - 15 HP	No.	\$ 35.00
7.2.5.4	15.1 - 20 HP	No.	\$ 40.00
7.2.5.5	20.1 - 50 HP	No.	\$ 45.00
7.2.5.6	50.1 - above	No.	\$ 60.00
7.2.6	<u>Air Handling Unit' of any type with the following capacity:</u>		
7.2.6.1	15-50 TR	No.	\$ 50.00
7.2.6.2	50.1 - above	No.	\$ 100.00



Item No.	Description	Unit	Rate
7.2.7	<u>Chilled water fan coil unit any type as the following:</u> <u>(including Pull out for servicing, install back and run to normal working order)</u>		
7.2.7.1	9,000 Btu/hr to 12,000 Btu/hr	No.	\$ 15.00
7.2.7.2	12,001 Btu/hr to 24,000 Btu/hr	No.	\$ 20.00
7.2.7.3	24,0001 Btu/hr to 60,000 Btu/hr	No.	\$ 25.00
7.2.7.4	60,0001 Btu/hr and above	No.	\$ 30.00
8.0	<b><u>REPLACEMENT OF SPLIT UNIT/AIR CURTAIN/EXHAUST FAN</u></b>		
	<b>Notes:</b> <b>Replacement of air conditioning unit shall include as the following:</b>		
	<b>i) <u>Testing and commisioning</u></b> To vacuuming, charging, testing, pressure testing and commissioning of replaced air conditioning unit.		
	<b>ii) <u>Warantty</u></b> Provide warranty for nine (9) Months period accordance with specification of replaced air conditioning unit.		
	<b>iii) <u>Labelling</u></b> To labelling all New Conditioner units using Bakelite and riveted to the unit		
8.1	<b><u>DISMANTLING THE EXISTING SPLIT TYPE AND ROOM AIR-CONDITIONING TYPE</u></b>		
	<u>To dismantle the existing split type air conditioner units c/w dismantle all the water tray, condensate piping, power &amp; control cable/trunking, brackets, fitting accessories, technical report (serial &amp; model) pictures, transportation/shipmet from Temburong to Bandar Seri Begawan and painting &amp; make good in accordance with specification.</u>		
8.1.1	RAC	Lot	\$ 50.00
8.1.2	High Wall Mounted Type	Lot	\$ 60.00
8.1.3	Ceiling Suspended / Floor standing type	Lot	\$ 80.00
8.1.4	Cassette Type	Lot	\$ 100.00
8.1.5	Air Curtain	Lot	\$ 15.00
8.1.6	Exhaust fan	Lot	\$ 10.00
8.2	<b><u>SUPPLY &amp; INSTALLATION OF NEW SPLIT AIR CONDITIONER UNITS WITH INVERTER TYPE OF COMPRESSOR</u></b>		
	<b><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.</u></b>		
8.2.1	<u>High Wall Mounted Type</u>		
8.2.1.1	2.64 kW / 10,000 Btu/hr	Set	\$ 700.00
8.2.1.2	4.11 kW / 13,000 Btu/hr	Set	\$ 900.00
8.2.1.3	5.3 kW / 20,000 Btu/hr	Set	\$ 1,200.00
8.2.1.4	7.1kW / 24,000 Btu/hr	Set	\$ 1,500.00
8.2.1.5	8.8kW / 30,000 Btu/hr	Set	\$ 1,800.00
8.2.2	<u>Ceiling Suspended Type</u>		
8.2.2.1	8.79kW / 30,000 Btu/hr	Set	\$ 2,000.00
8.2.2.2	10.55kW / 36,000 Btu/hr	Set	\$ 2,500.00
8.2.2.3	14.08 kW / 48,000 Btu/hr	Set	\$ 3,000.00



Item No.	Description	Unit	Rate
<b>8.2.3</b>	<u>Cassette Type</u>		
<b>8.2.3.1</b>	8.8kW / 30,000 Btu/hr	Set	\$ 2,500.00
<b>8.2.3.2</b>	10.06 kW / 36,000 Btu/hr	Set	\$ 3,000.00
<b>8.2.3.3</b>	14.08 kW / 48,000 Btu/hr	Set	\$ 3,500.00
<b>8.3</b>	<b><u>REFRIGERANT AND CONDENSATE PIPEWORKS FOR NEW AND EXISTING UNIT</u></b>		
	<u>Supply &amp; install Refrigerant piping c/w insulation, cable tray, fitting, adhesive denso tape &amp; accessories, hacking, coring or boring on the wall/ceiling, opening &amp; make good as specified. Rate inclusive of any length / amount required from CU to FCU.</u>		
<b>8.3.1</b>	High wall mounted Type	Lot	\$ 60.00
<b>8.3.2</b>	Ceiling Suspended Type Floor Standing type	Lot	\$ 80.00
<b>8.3.3</b>	Cassette Type	Lot	\$ 100.00
<b>8.3.4</b>	<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 below, Inclusive of any length required:</u>		
<b>8.3.4.1</b>	High wall mounted type	Lot	\$ 50.00
<b>8.3.4.2</b>	Ceiling Suspended type / Floor Standing type	Lot	\$ 70.00
<b>8.3.4.3</b>	Cassette Type	Lot	\$ 100.00
<b>8.4</b>	<b><u>ELECTRICAL WORKS</u></b>		
	<u>To replace with new power &amp; 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, the rate shall include any length required.</u>		
<b>8.4.1</b>	High wall Mounted Type	Lot	\$ 50.00
<b>8.4.2</b>	Ceiling Suspended Type	Lot	\$ 50.00
<b>8.4.3</b>	Cassette Type	Lot	\$ 80.00
<b>8.5</b>	<b><u>SUPPLY OF AIR CURTAIN</u></b>		
	<u>To supply and install new Air Curtain (any brand, type) including bracket etc.</u>		
<b>8.5.1</b>	Size : 3' x 8 -10' air throw	No.	\$ 250.00
<b>8.5.1</b>	Size: 4' x 8 -10' air throw	No.	\$ 350.00
<b>8.6</b>	<b><u>SUPPLY OF EXHAUST FAN</u></b>		
	<u>To supply &amp; install Exhaust Fan c/w making opening either through glass or concrete, mounting plate, bracket as required</u>		
<b>8.6.1</b>	6"	No.	\$ 50.00
<b>8.6.2</b>	8"	No.	\$ 60.00
<b>8.6.3</b>	10"	No.	\$ 70.00
<b>8.6.4</b>	12"	No.	\$ 80.00
<b>8.6.5</b>	15"	No.	\$ 90.00
<b>8.6.6</b>	18"	No.	\$ 100.00
<b>8.6.7</b>	24"	No.	\$ 110.00



Item No.	Description	Unit	Rate
<b>8.7</b>	<b><u>SUPPLY &amp; INSTALLATION OF NEW VRF UNITS</u></b>		
	<u>To supply and install refrigerant &amp; refrigerant piping c/w insulation (individual insulation of refrigerant lines), VRF with existing original brand c/w reprogramming, all necessary fittings (Y and T shape connection) and accessories shall not less than the capacity as indicated below:</u>		
<b>8.7.1</b>	<u>High Wall Mounted type:</u>		
<b>8.7.1.1</b>	2.64 KW / 10,000 Btu/hr	Set	\$ 1,500.00
<b>8.7.1.2</b>	4.11 KW / 14,000 Btu/hr	Set	\$ 1,700.00
<b>8.7.1.3</b>	5.3 KW / 18,000 Btu/hr	Set	\$ 1,900.00
<b>8.7.1.4</b>	7.1 KW / 24,000 Btu/hr	Set	\$ 2,200.00
<b>8.7.1.5</b>	8.87 KW / 30,000 Btu/hr	Set	\$ 2,400.00
<b>8.7.2</b>	<u>Ceiling Suspended Type</u>		
<b>8.7.2.1</b>	8.79 KW / 30,000 Btu/hr	Set	\$ 3,200.00
<b>8.7.2.2</b>	10.55 KW / 36,000 Btu/hr	Set	\$ 3,500.00
<b>8.7.2.3</b>	14.08 KW / 48,000 Btu/hr	Set	\$ 3,800.00
<b>8.7.3</b>	<u>Cassette type</u>		
<b>8.7.3.1</b>	8.79 KW / 30,000 Btu/hr	Set	\$ 3,500.00
<b>8.7.3.2</b>	10.55 KW / 36,000 Btu/hr	Set	\$ 3,700.00
<b>8.7.3.3</b>	14.08 KW / 48,000 Btu/hr	Set	\$ 3,900.00
<b>8.8</b>	<b><u>SUPPLY &amp; INSTALLATION OF NEW FLOOR STANDING (NON- INVERTER)</u></b>		
	<u>To supply and install refrigerant &amp; refrigerant piping c/w insulation ( individual insulation of refrigerant lines) of new floor standing, c/w all necessary fittings and accessories shall not less than the capacity as indicated below. Inclusive any length / amount required from CU to FCU.</u>		
<b>8.8.1</b>	30,000 Btu/hr	Set	\$ 1,300.00
<b>8.8.2</b>	36,000 Btu/hr	Set	\$ 1,850.00
<b>8.8.3</b>	48,000 Btu/hr	Set	\$ 2,050.00



## FINAL SUMMARY



Item No.	Description	Unit	Rate
	<p>With reference to the stated Schedule of Rates, we / I hereby confirmed that we / I agreed to carry out all / or part of the above-mentioned works as may be ordered from time to time up to the maximum value of B\$250,000.00 (Brunei Dollars Two Hundred Fifty Thousand only) at:</p> <p><b>*Plus (+) / minus (-) _____ percent of the stated Schedule of Rates.</b></p> <p>(In words, _____percent of the stated Schedule of Rates.)</p> <p>This percentage would be carried forward to the "BBDP CONTRACT AGREEMENT, TERMS &amp; CONDITION FOR QUOTATION WORKS 2023, KHEU2023-15.25-2 NOV FC/1". We / I also agreed to carry out and complete all the stated work within the contract period of <b><u>TWELVE (12) MONTHS</u></b> subject to any shortening or extension as decided by the Superintendent Officer and agreed by the contractor.</p> <p><b>(NB: If none stated then it would be liable to disqualification of Tender)</b></p>		



APPENDIX









**SENARAI JUMLAH TENAGA MANUSIA YANG AKAN DISERTAKAN UNTUK MEMBUAT PROJEK INI (JIKA BERJAYA)***Proposed Manpower Allocation and Additional Labour Quota Required (If Successful):*

<b>Bil.</b> No.	<b>Nama Jawatan</b> Name of Posts	<b>Jumlah Tenaga Manusia</b> Total Manpower
	<b>Jumlah</b> Total	

**Jumlah quota buruh yang masih ada:***No. of labour quota still available (from table Appendix 3):***Jumlah quota buruh yang dikehendaki:***No. of labour quota required:***Tandatangan Saksi:***Signature of Witness:***Tandatangan Saksi:***Signature of Witness:***Tarikh:***Date :***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:*

**Tandatangan Saksi:**

*Signature of Witness:*

**Tarikh:**

*Date :*

**Tarikh:**

*Date :*



**SENARAI PEKERJAAN YANG AKAN DI SUB-KONTRAK**  
*Proposed List of Jobs To Be Sub-Contracted:*

<b>Bil.</b> No.	<b>Kerja</b> Works	<b>Kepada</b> To	<b>Remarks</b>

**Tandatangan Saksi:**  
*Signature of Witness:*

**Tandatangan Saksi:**  
*Signature of Witness:*

\_\_\_\_\_  
**Tarikh:**  
*Date :*

\_\_\_\_\_  
**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.



**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.

Signature of Tenderer	Signature of Witness
Name : _____	Name : _____
Position : _____	Position : _____
Date : _____	Date : _____

**Company Profile**

Company Name : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone : \_\_\_\_\_

Company Stamp



**SITE VISIT DECLARATION FORM**  
**(Tenderer's Confirmation of Visit Project Site)**

Quotation No. : KHEU / BDP / 164 / / 2024

Project Title : TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG, DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM

Name of Tenderer : \_\_\_\_\_

Date of Site Visit : 06 Julai 2024 Time : 9,00 AM / PM

I/We hereby confirmed that I/We have:-

- Visited the site.
- A clear understanding on the nature and scope of works.
- Anticipated the constraints/restriction, etc. of the work site.
- Acknowledge the requirements to submit working drawing/any related works in quotation submission.
- The Tenderer inquiries (please specify, if any):

Note:

Please attached this Form A together with the quotation submission

Company's Stamp

Tenderer's Signature : \_\_\_\_\_

Tenderer's Name : \_\_\_\_\_

Date : \_\_\_\_\_

Site Visit attendance:

No.	Name	Organisation	Contact No.	Signature
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

