

BAHAGIAN BANGUNAN DAN PEMELIHARAAN  
KEMENTERIAN HAL EHWAL UGAMA  
NEGARA BRUNEI DARUSSALAM

TAWARAN SEBUT HARGA

BIL. SEBUT HARGA: KHEU / BDP / 164 / 004 / 2026

TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG DAN KUBAH MAKAM DILUBA, JALAN HJ HALUS, KAMPONG BUNUT, DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM

TARIKH TUTUP TAWARAN : 04 Februari 2026 Jam 2.00 PM

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

1. Tawaran hanyalah dipelawa kepada syarikat / pemborong yang berdaftar dengan Kementerian Pembangunan Kelas III dan Kategori B01 SAHAJA di Negara Brunei Darussalam.
2. Tawaran-tawaran mestilah dibuat di atas borang-borang tawaran yang tercetak oleh Kementerian ini dan penerangan lanjut bagi mengikuti sebut harga bolehlah datang terus ke Unit Penyelaras dan Pemantauan Projek, Bahagian Bangunan Dan Pemeliharaan, Bangunan Pasar Basah, Jalan Residency, BS8111, Kementerian Hal Ehwal Ugama, Negara Brunei Darussalam.
3. Bagi Syarikat / Pemborong yang berminat untuk mengikuti tawaran sebut harga hendaklah mengikut proses-proses pembelian tawaran sebut harga seperti berikut:
  - i. Syarikat / pemborong hendaklah menyertakan salinan Sijil Pendaftaran 16 dan 17 yang dikeluarkan oleh Bahagian Pendaftaran Syarikat-Syarikat, Jabatan Peguam Negara, Negara Brunei Darussalam dan juga menyertakan salinan Sijil Pendaftaran Kontraktor Dan Pembekal, Kementerian Pembangunan, Negara Brunei Darussalam yang masih sah laku.
  - ii. Syarikat / pemborong hendaklah membuat pembayaran B\$5.00 di Bahagian Kewangan, Tingkat 1, Kementerian Hal Ehwal Ugama atau melalui BIBD Online Payment bagi pembelian tawaran sebut harga.
  - iii. Setelah membuat pembayaran dan mendapatkan Resit Pembayaran bagi pembelian tawaran sebut harga, syarikat / pemborong hendaklah memuat turun (download) dokumen tawaran sebut harga di laman sesawang Kementerian Hal Ehwal Ugama: <https://www.mora.gov.bn/SitePages/Senarat%20Sebutharga.aspx>.
4. Borang-borang tawaran sebut harga hendaklah diisi dengan lengkap dan memasukkannya ke dalam sampul surat yang bertutup rapi ("Sealed Envelope") dengan menyertakan Salinan Resit Pembayaran, Sijil Pendaftaran 16 dan 17 dan Sijil Pendaftaran Kontraktor Dan Pembekal, Kementerian Pembangunan serta menulis Bilangan Tawaran, Nama Tawaran dan Tarikh Tutup tanpa membubuh sebarang pengenalan atau identiti syarikat atau pemborong.
5. Semua tawaran hendaklah dimasukkan ke dalam

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

6. Tawaran yang diterima lewat dari tarikh dan masa yang telah ditetapkan atau tawaran yang tidak lengkap, tidak akan dilayan atau diterima dan ianya tidak sah.
7. Kerajaan Kebawah Duli Yang Maha Mulia Paduka Seri Baginda Sultan Dan Yang Dipertuan Negara Brunei Darussalam melalui Kementerian Hal Ehwal Ugama, Negara Brunei Darussalam, tidak akan terikat untuk memilih sebarang tawaran yang lebih murah atau yang difikirkan tidak munasabah.



( SUSILIZAH BINTI KADIR )

Pmk. Ketua Bahagian Bangunan dan Pemeliharaan  
Kementerian Hal Ehwal Ugama  
Negara Brunei Darussalam





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

**QUOTATION NO.: KHEU / BDP / 164 / 004 / 2026**

**PROJECT : TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH  
MAKAM DIRAJA, JALAN TUTONG DAN KUBAH MAKAM DILUBA, JALAN  
HJ HALUS, KAMPONG BUNUT, DAERAH BRUNEI MUARA, MINISTRY OF  
RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM**

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**CLASS : III**

**CATEGORY : B01**

**CLOSING DATE : WEDNESDAY 04 FEBRUARY 2026 NOT LATER THAN 2.00 PM**

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



TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG DAN KUBAH  
MAKAM DILUBA, JALAN HJ HALUS, KAMPONG BUNUT, 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 **B\$ 5.00** . Payment shall be made at Finance Section, 1st Floor, Ministry of Religious or BIBD Online Payment.
8. No unauthorised alteration or use of 'correction pen' in the tender documents is allowed, or the tender may be rejected. Any errors are to be struck off and initialled.
9. Non-compliance with the above terms and conditions in any respect may render the tender liable to be rejected.
10. The tender must be done in the **OFFICIAL PRINTED** tender forms which is available from the **Ministry of Religious Affairs official website: <https://www.mora.gov.bn/SitePages/Senarai%20Sebutharga.aspx>**

The completed tender documents are to be lodged on or before 2.00 PM on 04 Februari 2026 in a sealed enveloped addressed to:-

TENDER / QUOTATION (QTN) BOX

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



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

Quotation No. : KHEU / BDP / 164 / 004 / 2026 Quotation Closing Date : 04 Februari 2026  
Project Title : TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG DAN KUBAH MAKAM DILUBA, JALAN HJ HALUS, KAMPONG BUNUT, 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 DAN KUBAH MAKAM DILUBA, JALAN HJ HALUS, KAMPONG BUNUT, DAERAH BRUNEI MUARA, MINISTRY OF RELIGIOUS AFFAIRS, NEGARA BRUNEI DARUSSALAM**

**Quotation No. : KHEU / BDP / 164 / 004 / 2026**      **Closed on : 04 Februari 2026**      **Receipt No. : \_\_\_\_\_**

**PART A - AGREEMENT**

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

(or),

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

And,

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



**BORANG PENGAKUAN**  
**DECLARATION FORM**

<b>BILANGAN SEBUT HARGA</b> <i>(QUOTATION NO.)</i>	: KHEU / BDP / 164 / <u>004</u> / 2026
<b>TAJUK SEBUT HARGA</b> <i>(QUOTATION TITLE)</i>	: TERM CONTRACT 12 MONTHS FOR COMPREHENSIVE WORKS AT KUBAH MAKAM DIRAJA, JALAN TUTONG DAN KUBAH MAKAM DILUBA, JALAN HJ HALUS, KAMPONG BUNUT, 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. No.	Nama <i>Name</i>	No. Kad Pengenalan Brunei & Warna/ No. Paspas Antarabangsa <i>Brunei Identity Card No. &amp; Colour/ International Passport No.</i>	Tandatangan <i>Signature</i>

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 menghadapi 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)*



FIXED SCHEDULE OF RATES



Item No.	Description	Unit	Rate
B1	<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 office 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:  KPB02 - Waterproofing  KPB04 - Plumbing and Sanitary Works  KPB05 - Pest Control  KPB11A - Structural Repair  KPB 11B - Structural Strengthening  KPB 10 - Desludging  KA 01 - General Civil Engineering Works  KPB 12 - Landscaping  KPB 15 - Repair and Rehabilitation of Sewer and Water pipeline  S01 - Environment &amp; Solid Waste Management Services  S02 - Janitorial Services</p>		



Item No.	Description	Unit	Rate
B1/1.0	<b><u>PRELIMINIARIES</u></b>		
B1/1.1	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
B1/1.2	<b><u>Insurances</u></b> <u>Allow for all expenses incurred including payments of premium for providing</u>		
B1/1.2.1	a) Public liability Policy in the joint names of the Government and the contractor	LS	\$ 500.00
B1/1.2.2	b) Fire Policy in the joint names of the Government and the contractor	LS	\$ 300.00
B1/1.2.3	c) Workmen's compensation policy in the joint names of the government and the contractor	LS	\$ 300.00
B1/1.3	<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 SHENA and PWD HSE policy / rules / guidelines and Ministry of Health Guidelines</b>	LS	\$ 1,000.00



Item No.	Description	Unit	Rate
B2	<b>BILL NO. 2 - BUILDING WORKS</b>		
B2/1.0	<b>EARTHWORKS &amp; EXCAVATION</b>		
B2/1.1	<b>Imported Fill</b>		
B2/1.1.1	<u>Selected imported dry earth consolidated in layers</u>		
B2/1.1.1.1	Filling to make up levels	m3	\$ 5.00
B2/1.1.1.2	Backfilling around walls and foundations	m3	\$ 8.50
B2/1.1.2	<u>Hardcore; filling to make up levels well consolidated</u> Over 300mm thick	m3	\$ 50.00
B2/1.1.3	<u>Hardcore; beds well consolidated</u>		
B2/1.1.3.1	100mm thick (average); blinding with sand / concrete	m2	\$ 6.50
B2/1.1.3.2	150mm thick (average); blinding with sand / concrete	m2	\$ 9.00
B2/1.1.4	<u>Sand consolidated in layers</u>		
B2/1.1.4.1	50mm thick (average)	m2	\$ 2.50
B2/1.1.4.2	75mm thick (average)	m2	\$ 3.50
B2/1.1.4.3	50mm - 75mm Top Soil	m2	\$ 3.00
B2/1.1.4.4	Close turfing using cow grass laying to flat ground	m2	\$ 3.50
B2/1.1.4.5	Over 300mm thick	m3	\$ 30.00
B2/1.2	<b>Excavation</b>		
B2/1.2.1	<u>General excavation depth and dispose off site</u>		
B2/1.2.1.1	average 100mm deep	m2	\$ 1.50
B2/1.2.1.2	average 200mm deep	m2	\$ 2.00
B2/1.2.1.3	over 300mm deep	m3	\$ 6.00
B2/1.2.2	<u>Excavate for footing and likes; dispose off site</u>		
B2/1.2.2.1	Light-weight machinery	m3	\$ 9.00
B2/1.2.2.2	Hand excavation in restricted area	m3	\$ 20.00
B2/2.0	<b>DEMOLITION AND ALTERATION</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		
B2/2.1	<u>To demolish and remove existing reinforced concrete superstructures, substructures, ground slabs including any finishes and sub base under and dispose off-site</u>		
B2/2.1.1	100mm thick	m2	\$ 8.00
B2/2.1.2	150mm thick	m2	\$ 10.00
B2/2.1.3	200mm thick	m2	\$ 12.00
B2/2.1.4	250mm thick	m2	\$ 15.00
B2/2.1.5	300mm thick	m2	\$ 18.00
B2/2.2	<u>Strip off or remove and dispose off-site roof finishes</u>		
B2/2.2.1	Waterproof membrane roof finishes and cleaning surfaces using appropriate solvent to bare concrete; flat roof, side and bottom gutters	m2	\$ 2.00
B2/2.2.2	Roof finishes complete with all flashing, underlaying roofing paper, insulation and weld mech	m2	\$ 8.00
B2/2.2.3	Roof structure and finishes complete with all flashing, underlaying roofing paper, insulation, weld mesh and members / trusses	m2	\$ 11.00
B2/2.3	<u>Removal metal cladding; clear all debris off site</u> Wall cladding including metal or timber framing	m2	\$ 2.50



Item No.	Description	Unit	Rate
<b>B2/2.4</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>		
<b>B2/2.4.1</b>	Brickwall half brick thick	m2	\$ 6.00
<b>B2/2.4.2</b>	Brickwall one brick thick	m2	\$ 11.00
<b>B2/2.4.3</b>	Brickwall one and a half brick thick	m2	\$ 15.00
<b>B2/2.4.4</b>	Brickwall two brick thick	m2	\$ 18.00
<b>B2/2.4.5</b>	Clear glass block	m2	\$ 10.00
<b>B2/2.4.6</b>	Block wall	m2	\$ 7.00
<b>B2/2.4.7</b>	Timber partition	m2	\$ 5.00
<b>B2/2.4.8</b>	Timber partition including framing	m2	\$ 7.00
<b>B2/2.5</b>	<u>Hack or take off existing any wall or floor finishes; clear debris off site</u>		
<b>B2/2.5.1</b>	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
<b>B2/2.5.2</b>	Floor carpet and the likes complete with any underlay and remove any adhesive	m2	\$ 2.50
<b>B2/2.6</b>	<u>Remove existing ceiling, clear all debris off site</u>		
<b>B2/2.6.1</b>	Softboard, hardboard, gypsum board, cement board or metal ceiling and the likes	m2	\$ 1.60
<b>B2/2.6.2</b>	Softboard, hardboard, gypsum board, cement board or metal ceiling and the likes; complete with all framing or suspension system	m2	\$ 2.00
<b>B2/2.6.3</b>	Timber slate	m2	\$ 3.00
<b>B2/2.7</b>	<u>Remove and dispose offsite timber, glass, aluminium doors and the likes</u>		
<b>B2/2.7.1</b>	Single leaf	No.	\$ 4.00
<b>B2/2.7.2</b>	Double equal leaf	No.	\$ 7.00
<b>B2/2.7.3</b>	Double unequal leaf	No.	\$ 6.50
<b>B2/2.8</b>	<u>Remove and dispose off site timber, glass, aluminium doors and the likes including frames and jambs</u>		
<b>B2/2.8.1</b>	Single leaf	No.	\$ 5.00
<b>B2/2.8.2</b>	Double equal leaf	No.	\$ 8.00
<b>B2/2.8.3</b>	Double unequal leaf	No.	\$ 7.50
<b>B2/2.9</b>	<u>Remove and dispose off site existing frames and jambs; to relocate existing doors and install to new frames and jambs</u>		
<b>B2/2.9.1</b>	Single leaf	No.	\$ 40.00
<b>B2/2.9.2</b>	Double equal leaf	No.	\$ 55.00
<b>B2/2.9.3</b>	Double unequal leaf	No.	\$ 50.00
<b>B2/2.10</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
<b>B2/2.11</b>	<u>Break up R.C perimeter drain, sumps or kerbs, cutting and bending of reinforcement dispose debris off site</u>		
<b>B2/2.11.1</b>	Not exceeding 250mm	m	\$ 4.00
<b>B2/2.11.2</b>	250mm - 350mm	m	\$ 6.00
<b>B2/2.11.3</b>	300mm - 450mm	m	\$ 7.00
<b>B2/2.11.4</b>	450mm - 600mm	m	\$ 8.00
<b>B2/2.11.5</b>	R.C sump average size 600mm x 600mm wide	No.	\$ 30.00
<b>B2/2.12</b>	<u>Remove existing fencing; clear all debris off site</u>		
<b>B2/2.12.1</b>	1200mm high fencing	m	\$ 2.00
<b>B2/2.12.2</b>	1800mm high fencing	m	\$ 3.00
<b>B2/2.12.3</b>	1200mm high fencing post and bracing	No.	\$ 3.50
<b>B2/2.12.4</b>	1800mm high fencing post and bracing	No.	\$ 4.00
<b>B2/2.13</b>	<u>Remove existing; make good works disturbed; clear all debris off site</u>		
<b>B2/2.13.1</b>	Window including frame	m2	\$ 3.00
<b>B2/2.13.2</b>	Safety grille to door, windows and the like including frame	m2	\$ 2.00



Item No.	Description	Unit	Rate
B2/2.13.3	Timber / metal collapsible door, including track, frame, accessories	m2	\$ 4.00
B2/2.13.4	Roller shutter c/w other associate accessories	m2	\$ 6.00
B2/2.13.5	Flag pole complete with accessories and substructure	No.	\$ 25.00
B2/2.13.6	Scupper drain 100mm - 150mm wide including tiling if necessary and other necessary works	m	\$ 10.00
B2/2.14	<u>Handrail consists top rail, bottom rail, intermediate rails and post including cutting and the likes</u>		
B2/2.14.1	Corridor	m	\$ 3.00
B2/2.14.2	Staircase	m	\$ 3.00
B2/2.15	<u>Remove existing fittings and fixtures; make good any works disturbed; clear debris off site</u>		
B2/2.15.1	Timber low level cabinet not exceeding 900mm high x 700mm deep	m	\$ 5.00
B2/2.15.2	Timber high level / wall hung cabinet not exceeding 900mm high x 700mm deep	m	\$ 5.00
B2/2.15.3	Timber wardrobe up to ceiling height	m	\$ 10.00
B2/2.16	<u>Remove existing water tank; make good any works disturbed; dispose off site</u>		
B2/2.16.1	HDPE tank including disconnect plumbing connection and disposal off site	Lot	\$ 100.00
B2/2.16.2	metal water tank including disconnect plumbing connection and disposal off site	Lot	\$ 100.00
B2/3.0	<b><u>CONCRETE AND FORMWORK</u></b>		
B2/3.1	Supply and lay 50mm Grade 15 concrete blinding complete with formwork	m2	\$ 6.00
B2/3.2	<u>Supply and lay concrete in structural works (column, beam, plinth, pile cap, step and staircase) complete with formwork</u>		
B2/3.2.1	Grade 30	m3	\$ 190.00
B2/3.2.2	Grade 40	m3	\$ 220.00
B2/3.3	<u>Supply and lay Grade 25 concrete in slab / apron / wall; trowelled smooth finishes complete with formwork</u>		
B2/3.3.1	100mm thick	m2	\$ 19.00
B2/3.3.2	150mm thick	m2	\$ 28.00
B2/3.3.3	200mm thick	m2	\$ 36.00
B2/3.3.4	250mm thick	m2	\$ 42.00
B2/3.4	<u>Supply and lay Grade 30 concrete in slab / apron / wall; trowelled smooth finishes complete with formwork</u>		
B2/3.4.1	100mm thick	m2	\$ 22.00
B2/3.4.2	150mm thick	m2	\$ 30.00
B2/3.4.3	200mm thick	m2	\$ 38.00
B2/3.4.4	250mm thick	m2	\$ 44.00
B2/4.0	<b><u>REINFORCEMENT</u></b>		
B2/4.1	<u>Mild steel bar reinforcement to B.S 4449 to ; concrete slabs, walls, beams, columns etc.</u>		
B2/4.1.1	not exceeding 10mm $\phi$ : links, stirrups, binders	kg	\$ 2.80
B2/4.1.2	10 - 13mm $\phi$ : links, stirrups, binders	kg	\$ 2.60
B2/4.2	<u>High tensile steel bar reinforcement to B.S 4449 to ; concrete slabs, walls, beams, columns etc.</u>		
B2/4.2.1	not exceeding 10mm $\phi$ ; general straight and bent bars	kg	\$ 2.70
B2/4.2.2	10 - 13mm $\phi$ ; general straight and bent bars	kg	\$ 2.60
B2/4.2.3	16 - 25mm $\phi$ ; general straight and bent bars	kg	\$ 2.75
B2/4.2.4	exceeding 25mm $\phi$ ; general straight and bent bars	kg	\$ 2.80
B2/4.3	<u>BRC steel fabric reinforcement to B.S 4483 ; well lapped at joints ; concrete slabs</u>		
B2/4.3.1	BRC reference A8	m2	\$ 9.00
B2/4.3.2	BRC reference A7	m2	\$ 8.00
B2/4.3.3	BRC reference A6	m2	\$ 7.00



Item No.	Description	Unit	Rate
B2/5.0	<b>BRICKWORK, BLOCKWORK AND WALL PARTITION</b>		
B2/5.1	<b>Brickworks</b>		
B2/5.1.1	<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>		
B2/5.1.1.1	Half brick 112mm thick	m2	\$ 22.00
B2/5.1.1.2	One brick 225mm thick	m2	\$ 42.00
B2/5.1.2	<u>Plastering to smooth finish including, groove and pattern design to S.O approval</u>		
B2/5.1.2.1	20mm thick to brickwall	m2	\$ 10.00
B2/5.1.2.2	13mm thick to soffit of slab	m2	\$ 10.00
B2/5.1.2.3	13mm thick to column and beam	m2	\$ 10.00
B2/5.1.3	10 - 20mm thick cement and sand plaster to wall	m2	\$ 6.70
B2/5.2	<b>Lightweight Block</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
B2/5.3	<b>Glass Block</b>		
B2/5.3.1	<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>		
B2/5.3.1.1	150mm x 150mm x 80mm thick	m2	\$ 200.00
B2/5.3.1.2	190mm x 190mm x 80mm thick	m2	\$ 230.00
B2/5.3.2	<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>		
B2/5.3.2.1	150mm x 150mm x 80mm thick	m2	
B2/5.3.2.2	190mm x 190mm x 80mm thick	m2	\$ 120.00
B2/5.4	<b>Wall Partition</b>		
B2/5.4.1	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
B2/5.4.2	To supply and install new gypsum wall partition including metal framing and complete with putty to smooth to match existing wall	m2	\$ 45.00
B2/6.0	<b>ROOF WORKS</b>		
B2/6.1	<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>		
B2/6.1.1	0.40mm Hideck/Speedeck roof sheet	m2	\$ 18.00
B2/6.1.2	0.47mm Hideck/Speedeck roof sheet	m2	\$ 20.00
B2/6.1.3	0.40mm Loratile/Steeptile/E-Gle roof sheet	m2	\$ 15.00
B2/6.1.4	0.47mm Loratile/Steeptile/E-Gle roof sheet	m2	\$ 18.00
B2/6.1.5	0.47mm Kliplok/Spanlok roof sheet	m2	\$ 28.00



Item No.	Description	Unit	Rate
B2/6.1.6	0.53mm Kliplok/Spanlok roof sheet	m2	\$ 29.00
B2/6.1.7	corrugated roof sheet	m2	\$ 15.00
B2/6.2	<u>Removing existing; supply and install new roof accessories to match existing roof; complete with lap-screw, fastener; or fixed brackets/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>		
B2/6.2.1	0.40mm/0.47mm ridge cappings	m	\$ 12.00
B2/6.2.2	0.40mm/0.47mm barrel cappings	m	\$ 14.00
B2/6.2.3	0.40mm/0.47mm barge cappings	m	\$ 12.00
B2/6.2.4	0.40mm/0.47mm box barge cover	m	\$ 12.00
B2/6.2.5	0.40mm/0.47mm valley gutter	m	\$ 12.00
B2/6.2.6	0.40mm wall flashing	m	\$ 8.00
B2/6.2.7	0.47mm wall flashing	m	\$ 9.00
B2/6.3	<u>Removing existing; supply and install approved ceramic roof tiles with approved colour, lapped fixed in accordance with the Manufacturer's Instructions (measured nett and no allowance made for laps)</u>		
B2/6.3.1	Roofing tiling fixed to 21 degree pitch including 50mm x 38mm hardwood batten at 340mm centres each tile to be fixed with 89mm galvanized nail	m2	\$ 28.00
B2/6.3.2	Standard ridge capping overall girth 450mm, three times bents, dressed down over ribs at sides to suit the profile of roofing sheet and fastem at each rib	m	\$ 22.00
B2/6.3.3	Standard hip capping overall girth 450mm, three times bents, dressed down over ribs at sides to suit the profile of roofing sheet and fastem at each rib	m	\$ 22.00
B2/6.3.4	Standard valley gutter, overall girth 450mm, five times bents, including base board and supporting frame	m	\$ 46.00
B2/6.3.5	Standard three-way apex tile	No	\$ 15.00
B2/6.3.6	Extra over hip tile for hip starter tile	No	\$ 13.00
B2/6.4	<u>Removing existing; supply and install approved clay roof tiles with approved colour, lapped fixed in accordance with the Manufacturer's Instructions (measured nett and no allowance made for laps)</u>		
B2/6.4.1	Roofing tiling fixed to 21 degree pitch including 50mm x 38mm hardwood batten at 340mm centres each tile to be fixed with 89mm galvanized nail	m2	\$ 47.00
B2/6.4.2	Standard ridge capping overall girth 450mm, three times bents, dressed down over ribs at sides to suit the profile of roofing sheet and fastem at each rib	m	\$ 37.00
B2/6.4.3	Standard hip capping overall girth 450mm, three times bents, dressed down over ribs at sides to suit the profile of roofing sheet and fastem at each rib	m	\$ 37.00
B2/6.4.4	Standard valley gutter, overall girth 450mm, five times bents, including base board and supporting frame	m	\$ 75.00
B2/6.4.5	Standard three-way apex tile	No	\$ 25.00
B2/6.4.6	Extra over hip tile for hip starter tile	No	\$ 22.00
B2/6.5	<u>Approved timber roof with approved colour, lapped fixed in accordance with the Manufacturer's Instructions (measured nett and no allowance made for laps)</u>		
B2/6.5.1	Roofing tiling fixed to 21 degree pitch including 50mm x 38mm hardwood batten at 340mm centres each tile to be fixed with 89mm galvanized nail	m2	\$ 114.00
B2/6.5.2	Standard ridge capping overall girth 450mm, three times bents, dressed down over ribs at sides to suit the profile of roofing sheet and fastem at each rib	m	\$ 26.00
B2/6.5.3	Standard hip capping overall girth 450mm, three times bents, dressed down over ribs at sides to suit the profile of roofing sheet and fastem at each rib	m	\$ 26.00
B2/6.5.4	Standard valley gutter, overall girth 450mm, five times bents, including base board and supporting frame	m	\$ 58.00
B2/6.5.5	Standard three-way apex tile	No	\$ 16.00
B2/6.5.6	Extra over hip tile for hip starter tile	No	\$ 14.00



Item No.	Description	Unit	Rate
B2/6.6	<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>		
B2/6.6.1	<u>2" x 4" C-channel complete with plates, brackets, grips, joints, screws, bolts, nuts and any other necessary accessories required</u>		
B2/6.6.1.1	1mm thickness	m	\$ 7.00
B2/6.6.1.2	1.6mm thickness	m	\$ 11.00
B2/6.6.1.3	2mm thickness	m	\$ 14.00
B2/6.6.2	<u>Batten complete with plates, brackets, grips, joints, screws, bolts, nuts and any other necessary accessories required</u>		
B2/6.6.2.1	1½" 0.6mm thickness	m	\$ 5.00
B2/6.6.2.2	2½" 0.8mm thickness	m	\$ 7.00
B2/6.7	<u>Remove, supply and install new</u>		
B2/6.7.1	50mm x 50mm chicken wiremesh	m2	\$ 1.00
B2/6.7.2	BRC 3315 / 3316 to roof	m2	\$ 3.20
B2/6.7.3	50mm thick Rockwool insulation not less than 80Kg/m3 laid under roofing sheet (measured nett and no allowance made for laps)	m2	\$ 14.20
B2/6.7.4	50mm thick Fibre glass quilt insulation not less than 80Kg/m3 laid under roofing sheet (measured nett and no allowance made for laps)	m2	\$ 13.20
B2/6.7.5	25mm thick Fibre glass quilt insulation not less than 80Kg/m3 laid under roofing sheet (measured nett and no allowance made for laps)	m2	\$ 7.20
B2/6.8	<u>Supply and install new</u>		
B2/6.8.1	50mm x 50mm chicken wiremesh	m2	\$ 0.80
B2/6.8.2	BRC 3315 / 3316 to roof	m2	\$ 3.00
B2/6.8.3	50mm thick Rockwool insulation not less than 80Kg/m3 laid under roofing sheet (measured nett and no allowance made for laps)	m2	\$ 14.00
B2/6.8.4	50mm thick Fibre glass quilt insulation not less than 80Kg/m3 laid under roofing sheet (measured nett and no allowance made for laps)	m2	\$ 13.00
B2/6.8.5	25mm thick Fibre glass quilt insulation not less than 80Kg/m3 laid under roofing sheet (measured nett and no allowance made for laps)	m2	\$ 7.00
B2/6.9	<u>Remove, supply and install new sisalation roofing paper</u>		
B2/6.9.1	Single-sided	m2	\$ 1.70
B2/6.9.2	Double-sided	m2	\$ 2.40
B2/6.10	<u>Supply and install new sisalation roofing paper</u>		
B2/6.10.1	Single-sided	m2	\$ 1.40
B2/6.10.2	Double-sided	m2	\$ 2.00
B2/6.11	Refix and repair to loose / dented metal roof flashing / fascia including all accessories.	m	\$ 3.00
B2/6.12	<u>Approved polycarbonate translucent roofing sheet and accessories with approved lapped fixed in accordance with the Manufacturer's Instructions; (measured nett and no allowance made for laps).</u>		
B2/6.12.1	12mm thick Roofing sheet, fixed with and including concealed fixing straps	m2	\$ 240.00
B2/6.13	<u>Approved polyglass polycarbonate solid roofing sheet and accessories with approved lapped fixed in accordance with the Manufacturer's Instructions; (measured nett and no allowance made for laps).</u>		
B2/6.13.1	"MARKLON" polyglass polycarbonate solid sheet		
B2/6.13.1.1	6mm thick Roofing sheet, fixed with and including concealed fixing straps	m2	\$ 133.00
B2/6.13.1.2	4mm thick Roofing sheet, fixed with and including concealed fixing straps	m2	\$ 97.00



Item No.	Description	Unit	Rate
B2/6.14	<u>Glass Skylight</u>		
B2/6.14.1	<u>Supply and fix approved glass skylight system complete with 12.76mm thick green-tinted Low-E laminated glass; or other approved equivalent system complete with all necessary flashings, structural steel support frames, waterproofing mechanism, fittings, accessories, etc all strictly in accordance with Manufacturer's Specification and Instructions and as per Superintending Officer instructions.</u>		
B2/6.14.1.1	<u>"LB Alloy Skylight" system</u>		
B2/6.14.1.1.1	Glass skylight system	m2	\$ 612.00
B2/6.14.1.2	<u>"Plexiglass Acrylic Skylight" system</u>		
B2/6.14.1.2.1	Glass skylight system	m2	\$ 308.00
B2/6.14.2	<u>Supply and fix approved glass skylight system complete with 10mm thick high strengthened glass; or other approved equivalent system complete with all necessary flashings, structural steel support frames, waterproofing mechanism, fittings, accessories, etc all strictly in accordance with Manufacturer's Specification and Instructions and as per Superintending Officer instructions</u>		
B2/6.14.2.1	<u>"SSG-Duraglas HS" system</u> Glass skylight system	m2	\$ 414.00
B2/6.15	<u>Miscellaneous Works</u>		
B2/6.15.1	<u>Takedown existing structure; and remove debris off the site and making good all works disturbed to the satisfaction of the Superintending Officer.</u>		
B2/6.15.1.1	Roofing sheet	m2	\$ 4.00
B2/6.15.1.2	Roofing tiles	m2	\$ 6.00
B2/6.15.1.3	Ridge capping	m	\$ 8.00
B2/6.15.1.4	Roof flashing	m	\$ 8.00
B2/6.15.1.5	Valley gutter flashing	m	\$ 8.00
B2/6.15.1.6	Roof insulation	m2	\$ 4.00
B2/6.15.1.7	Galvanized roof mesh	m2	\$ 4.00
B2/6.15.1.8	Stainless steel gutter	m	\$ 8.00
B2/6.15.1.9	Galvanized steel gutter	m	\$ 8.00
B2/6.15.1.10	Metal gutter	m	\$ 8.00
B2/6.15.1.11	UPVC gutter	m	\$ 8.00
B2/6.15.1.12	Glass skylight panel	m2	\$ 12.00
B2/6.15.1.13	UPVC rainwater downpipe	m	\$ 8.00
B2/6.15.1.14	Cast Iron rainwater downpipe	m	\$ 8.00
B2/6.15.1.15	Roof outlet	No.	\$ 5.00
B2/6.15.2	<u>Allow labour and material to clean existing structure using high pressure water by means of waterjetting and/or using appropriate solvent, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.</u>		
B2/6.15.2.1	Roofing sheet	m2	\$ 12.00
B2/6.15.2.2	Roofing tiles	m2	\$ 12.00
B2/6.15.2.3	Ridge capping	m	\$ 5.00
B2/6.15.2.4	Roof flashing	m	\$ 5.00
B2/6.15.2.5	Valley gutter flashing	m	\$ 5.00
B2/6.15.2.6	Stainless steel gutter	m	\$ 5.00
B2/6.15.2.7	Galvanized steel gutter	m	\$ 5.00
B2/6.15.2.8	Metal gutter	m	\$ 5.00
B2/6.15.2.9	UPVC gutter	m	\$ 5.00
B2/6.15.2.10	Glass skylight panel	m2	\$ 12.00
B2/6.15.2.11	UPVC rainwater downpipe	m	\$ 5.00
B2/6.15.2.12	Cast Iron rainwater downpipe	m	\$ 5.00
B2/6.15.2.13	Roof outlet	No.	\$ 5.00
B2/6.15.2.14	PTFE/ Teflon Roofing	m2	\$ 12.00



Item No.	Description	Unit	Rate
<b>B2/6.15.3</b>	<u>Allow labour and material to rectify roof leakage by applying approved roof sealant, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.</u>		
<b>B2/6.15.3.1</b>	Roofing sheet	m2	\$ 14.00
<b>B2/6.15.3.2</b>	Roofing tiles	m2	\$ 14.00
<b>B2/6.15.3.3</b>	Ridge capping	m	\$ 14.00
<b>B2/6.15.3.4</b>	Roof flashing	m	\$ 14.00
<b>B2/6.15.3.5</b>	Valley gutter flashing	m	\$ 14.00
<b>B2/6.15.3.6</b>	Stainless steel gutter	m	\$ 14.00
<b>B2/6.15.3.7</b>	Galvanized steel gutter	m	\$ 14.00
<b>B2/6.15.3.8</b>	Metal gutter	m	\$ 14.00
<b>B2/6.15.3.9</b>	UPVC gutter	m	\$ 14.00
<b>B2/6.15.3.10</b>	Glass skylight panel	m2	\$ 40.00
<b>B2/6.15.3.11</b>	UPVC rainwater downpipe	m	\$ 14.00
<b>B2/6.15.3.12</b>	Cast Iron rainwater downpipe	m	\$ 14.00
<b>B2/6.15.3.13</b>	Roof outlet, overall size 150mm diameter	No.	\$ 14.00
<b>B2/6.15.3.14</b>	Roof outlet, overall size 100mm diameter	No.	\$ 14.00
<b>B2/6.15.4</b>	<u>Allow labour and material to repair leaking structure with sealant to all bolt heads and leaking joints/gaps and replacing/refixing existing ridge capping and tightening all roof connection and apply CPRU approved waterproofing coatings to surfaces of roof/internal of gutter, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.</u>		
<b>B2/6.15.4.1</b>	Roofing sheet	m2	\$ 35.00
<b>B2/6.15.4.2</b>	Stainless steel gutter	m	\$ 23.00
<b>B2/6.15.4.3</b>	Galvanized steel gutter	m	\$ 23.00
<b>B2/6.15.4.4</b>	Metal gutter	m	\$ 23.00
<b>B2/6.15.4.5</b>	UPVC gutter	m	\$ 23.00
<b>B2/6.15.5</b>	<u>Allow labour and material to refix or repair damaged structure, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.</u>		
<b>B2/6.15.5.1</b>	Roofing sheet	m2	\$ 27.00
<b>B2/6.15.5.2</b>	Roofing tiles	m2	\$ 27.00
<b>B2/6.15.5.3</b>	Ridge capping	m	\$ 27.00
<b>B2/6.15.5.4</b>	Roof flashing	m	\$ 27.00
<b>B2/6.15.5.5</b>	Valley gutter flashing	m	\$ 27.00
<b>B2/6.15.5.6</b>	Stainless steel gutter	m	\$ 27.00
<b>B2/6.15.5.7</b>	Galvanized steel gutter	m	\$ 27.00
<b>B2/6.15.5.8</b>	Metal gutter	m	\$ 27.00
<b>B2/6.15.5.9</b>	UPVC gutter	m	\$ 27.00
<b>B2/6.15.5.10</b>	Glass skylight panel	m2	\$ 53.00
<b>B2/6.15.5.11</b>	UPVC rainwater downpipe	m	\$ 27.00
<b>B2/6.15.5.12</b>	Cast Iron rainwater downpipe	m	\$ 27.00
<b>B2/6.15.5.13</b>	Roof outlet, overall size 150mm diameter	No.	\$ 27.00
<b>B2/6.15.5.14</b>	Roof outlet, overall size 100mm diameter	No.	\$ 27.00
<b>B2/6.15.6</b>	Allow labour and material to seal existing ridges and hips of roofing tiles (any type) with seal pro dry fix roofseal with adhesive bitumen compound, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.	m	\$ 7.00
<b>B2/6.15.7</b>	Allow labour and material to seal existing side and end laps of corrugated roof sheeting (any type) with bituminous sealing compound irrespective of girths inclusive of cement mortar when necessary, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.	m	\$ 4.00
<b>B2/6.15.8</b>	Allow labour and material to seal existing nail, screws or bolt heads with bituminous sealing compound, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.	m	\$ 3.00



Item No.	Description	Unit	Rate
B2/7.0	<b>CARPENTRY AND JOINERY</b>		
B2/7.1	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
B2/7.2	<u>Remove existing and replace with new finishings 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>		
B2/7.2.1	25mm x 75mm (1" x 3")	m2	\$ 23.00
B2/7.2.2	25mm x 100mm (1" x 4")	m2	\$ 25.00
B2/7.2.3	25mm x 150mm (1" x 6")	m2	\$ 27.00
B2/7.3	<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>		
B2/7.3.1	25mm x 75mm (1" x 3")	m2	\$ 21.00
B2/7.3.2	25mm x 100mm (1" x 4")	m2	\$ 24.00
B2/7.3.3	25mm x 150mm (1" x 6")	m2	\$ 26.00
B2/7.4	<u>Removal of existing timber and replace with new sawn, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u> <u>Roof trusses, pitched roofs, ceiling joists, partition frame, batten and the likes</u>		
B2/7.4.1	50mm x 50mm (2" x 2")	m	\$ 2.50
B2/7.4.2	50mm x 75mm (2" x 3")	m	\$ 3.50
B2/7.4.3	50mm x 100mm (2" x 4")	m	\$ 5.00
B2/7.4.4	50mm x 125mm (2" x 5")	m	\$ 6.00
B2/7.4.5	50mm x 150mm (2" x 6")	m	\$ 7.00
B2/7.5	<u>Removal of existing timber and replace with new sawn, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u> <u>Roof boards, fillets grounds, batten, skirting, framing and the likes</u>		
B2/7.5.1	25mm x 25mm (1" x 1")	m	\$ 1.50
B2/7.5.2	25mm x 50mm (1" x 2")	m	\$ 2.00
B2/7.5.3	25mm x 75mm (1" x 3")	m	\$ 3.00
B2/7.5.4	25mm x 100mm (1" x 4")	m	\$ 4.00
B2/7.5.5	25mm x 150mm (1" x 6")	m	\$ 6.00
B2/7.5.6	25mm x 200mm (1" x 8")	m	\$ 7.00
B2/7.5.7	50mm x 200mm (2" x 8")	m	\$ 9.00
B2/7.6	<u>Removal of existing timber and replace with new wrought, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u> <u>Roof boards, fillets grounds, batten, skirting, framing and the likes</u>		
B2/7.6.1	25mm x 25mm (1" x 1")	m	\$ 1.00
B2/7.6.2	25mm x 50mm (1" x 2")	m	\$ 1.50
B2/7.6.3	25mm x 75mm (1" x 3")	m	\$ 2.50
B2/7.6.4	25mm x 100mm (1" x 4")	m	\$ 3.50
B2/7.6.5	25mm x 150mm (1" x 6")	m	\$ 5.50
B2/7.6.6	25mm x 200mm (1" x 8")	m	\$ 6.50
B2/7.6.7	50mm x 200mm (2" x 8")	m	\$ 8.50
B2/7.7	<u>Removal of existing timber and replace with new wrought, treated Selangan Batu structural timbers; including 2 coats of wood preservative</u>		
B2/7.7.1	25mm x 200mm (1" x 8")	m	\$ 15.00
B2/7.7.2	50mm x 50mm (2" x 2")	m	\$ 2.50
B2/7.7.3	50mm x 75mm (2" x 3")	m	\$ 3.50
B2/7.7.4	50mm x 100mm (2" x 4")	m	\$ 7.50
B2/7.7.5	50mm x 125mm (2" x 5")	m	\$ 8.00
B2/7.7.6	50mm x 150mm (2" x 6")	m	\$ 9.50
B2/7.7.7	100mm x 100mm (4" x 4")	m	\$ 10.00
B2/7.7.8	150mm x 150mm (6" x 6")	m	\$ 20.00



Item No.	Description	Unit	Rate
B2/7.8	<u>Temporary removal of suspended ceilings and the likes</u> temporary remove, put and store safety aside existing suspended ceilings and likes; including refixing and reinstalling back to original areas / locations	m2	\$ 10.00
B2/7.9	<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>		
B2/7.9.1	6"	m	\$ 7.50
B2/7.9.2	8"	m	\$ 9.00
B2/7.10	<u>Ceiling and Wall boarding</u>		
B2/7.10.1	<u>Remove, supply and fix ceiling / wall to existing frame including taping and a 3mm coat of fine gypsum plaster at all joints</u>		
B2/7.10.1.1	Softboard	m2	\$ 13.00
B2/7.10.1.2	6mm thick Gypsum board	m2	\$ 18.00
B2/7.10.1.3	9mm thick Gypsum board	m2	\$ 21.00
B2/7.10.1.4	12mm thick Gypsum board	m2	\$ 23.00
B2/7.10.1.5	Cement board	m2	\$ 15.00
B2/7.10.1.6	5mm thick Duravent ceiling	m2	\$ 20.00
B2/7.10.1.7	5.2mm thick Plywood	m2	\$ 12.00
B2/7.10.1.8	12mm thick Plywood	m2	\$ 18.00
B2/7.10.2	<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>		
B2/7.10.2.1	Softboard	m2	\$ 15.00
B2/7.10.2.2	6mm thick Gypsum board	m2	\$ 23.00
B2/7.10.2.3	9mm thick Gypsum board	m2	\$ 26.00
B2/7.10.2.4	12mm thick Gypsum board	m2	\$ 28.00
B2/7.10.2.5	Cement board	m2	\$ 23.00
B2/7.10.2.6	5mm thick Duravent ceiling	m2	\$ 25.00
B2/7.10.2.7	5.2mm thick Plywood	m2	\$ 15.00
B2/7.10.2.8	12mm thick Plywood	m2	\$ 20.00
B2/7.10.3	Refix and repair to loose / sagged ceiling including nailing and all necessary works to match existing and make good works disturbed	m2	\$ 5.00
B2/7.11	<u>Remove and supply;</u>		
B2/7.11.1	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
B2/7.11.2	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
B2/7.12	9mm thick masterclad for external wall	m2	\$ 38.00
B2/7.13	<u>Remove, supply and fix plaster glass cornice</u>		
B2/7.13.1	Not Exceeding 150mm high	m	\$ 9.00
B2/7.13.2	150mm - 230mm high	m	\$ 13.00
B2/7.14	<u>Doors</u>		
B2/7.14.1	<u>Repair existing solid / flush door inclusive 5mm thick plywood on bothsides glued and nailed to the frames and the other necessary repair works required</u>		
B2/7.14.1.1	± 38mm x 915mm x 2134mm	No.	\$ 23.00
B2/7.14.1.2	General	m2	\$ 11.80
B2/7.14.2	<u>Remove existing, supply and install; solid panelled doors generally constructed in red meranti, complete with approved painting</u>		
B2/7.14.2.1	Single leaf	No.	\$ 150.00
B2/7.14.2.2	Single leaf with size of less than 900mm x 2100mm	No.	\$ 120.00
B2/7.14.2.3	Double equal leaf	No.	\$ 300.00
B2/7.14.2.4	Double unequal leaf	No.	\$ 230.00



Item No.	Description	Unit	Rate
B2/7.14.3	<u>ditto; complete with approved painting, framing, jambs, hinges and any necessary fittings</u>		
B2/7.14.3.1	Single leaf	No.	\$ 200.00
B2/7.14.3.2	Single leaf with size of less than 900mm x 2100mm	No.	\$ 170.00
B2/7.14.3.3	Double equal leaf	No.	\$ 350.00
B2/7.14.3.4	Double unequal leaf	No.	\$ 280.00
B2/7.14.4	<u>Remove existing, supply and install; solid panelled doors generally constructed in double plywood; complete with approved painting/formica</u>		
B2/7.14.4.1	Single leaf	No.	\$ 120.00
B2/7.14.4.2	Double equal leaf	No.	\$ 240.00
B2/7.14.4.3	Double unequal leaf	No.	\$ 200.00
B2/7.14.5	<u>ditto; complete with approved painting, framing, jambs, hinges and any necessary fittings</u>		
B2/7.14.5.1	Single leaf	No.	\$ 290.00
B2/7.14.5.2	Double equal leaf	No.	\$ 240.00
B2/7.14.5.3	Double unequal leaf	No.	\$ 250.00
B2/7.14.6	<u>Remove existing, supply and install; Flush doors generally constructed in teak veneered plywood; complete with approved painting</u>	No.	\$ 180.00
	Single leaf		
B2/7.14.7	<u>ditto; complete with approved painting, framing, jambs, hinges and any necessary fittings</u>	No.	\$ 230.00
	Single leaf		
B2/7.14.8	<u>Remove existing, supply and install; UPVC doors complete with framing, jambs, hinges and any necessary fittings</u>		
B2/7.14.8.1	Plain	No.	\$ 140.00
B2/7.14.8.2	Plain with size of less than 900mm x 2100mm	No.	\$ 120.00
B2/7.14.8.3	Plain with ventilated louvers	No.	\$ 150.00
B2/7.14.8.4	Decorative	No.	\$ 160.00
B2/7.14.9	<u>Remove existing, supply and install; UPVC doors only complete with hinges</u>		
B2/7.14.9.1	Plain	No.	\$ 110.00
B2/7.14.9.2	Plain with size of less than 900mm x 2100mm	No.	\$ 95.00
B2/7.14.9.3	Plain with ventilated louvers	No.	\$ 120.00
B2/7.14.9.4	Decorative	No.	\$ 130.00
B2/7.14.9.5	UPVC jambs	No.	\$ 50.00
B2/7.14.10	Refix and repair to loose / tilted / misaligned door panel including frame / jamb, accessories / fittings and make good works disturbed	No.	\$ 3.00
B2/7.14.11	<u>Remove existing and replace with new finishings in wrought treated Kapur Bukit Door frames, window frames and the likes</u>		
B2/7.14.11.1	38mm x 125mm	m	\$ 9.00
B2/7.14.11.2	28mm x 150mm	m	\$ 10.00
B2/7.14.11.3	28mm x 200mm	m	\$ 3.00
B2/7.14.11.4	50mm x 125mm	m	\$ 10.00
B2/7.14.11.5	50mm x 150mm	m	\$ 12.00
B2/7.14.12	<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>		
B2/7.14.12.1	25mm x 25mm	m	\$ 0.80
B2/7.14.12.2	25mm x 50mm	m	\$ 1.30
B2/7.14.12.3	25mm x 75mm	m	\$ 2.00
B2/7.14.12.4	25mm x 100mm	m	\$ 2.60
B2/7.14.12.5	25mm x 150mm	m	\$ 3.70
B2/7.14.12.6	25mm x 200mm	m	\$ 4.90
B2/7.14.12.7	50mm x 50mm	m	\$ 3.00
B2/7.14.12.8	50mm x 100mm	m	\$ 4.20
B2/7.14.12.9	50mm x 125mm	m	\$ 5.50
B2/7.14.12.10	50mm x 150mm	m	\$ 6.50



Item No.	Description	Unit	Rate
B2/7.14.13	<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
B2/7.14.14	<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
B2/7.14.15	<u>Relocate existing door to new location complete with approved painting, framing, jambs, hinges and any necessary fittings as per S.O instruction</u>		
B2/7.14.15.1	Single leaf	No.	\$ 10.00
B2/7.14.15.2	Single leaf with size of less than 900mm x 2100mm	No.	\$ 10.00
B2/7.14.15.3	Double equal leaf	No.	\$ 13.00
B2/7.14.15.4	Double unequal leaf	No.	\$ 13.00
B2/7.14.16	<u>Fire Rated doors complete with intumescent strip, door frames, hardware and accessories to Bomba (Fire Services Department) requirements and approval, including obtaining approval certificates formed in profile, bolted and welded together, hardware and locking mechanism, all shop and site welding, filling smooth junction, raking and cutting, hoisted and placed in position; prepare one shop primer, one metal primer and two coats of miscaceous iron oxide to all exposed surfaces; all strictly in accordance with the Manufacturer's Specification and Instructions</u>		
B2/7.14.16.1	<u>One Hour Fire Rated</u>		
B2/7.14.16.1.1	Single leaf solid timber swing door; overall size 900mm x 2400mm high	No.	\$ 576.00
B2/7.14.16.1.2	Single leaf solid timber swing door consist of 1 no fixed clear wired glass panel size 250mm x 430mm high; overall size 900mm x 2400mm high	No.	\$ 750.00
B2/7.14.16.1.3	Single leaf solid timber swing door consist of 1 no 12mm thick fixed glass panel size 250mm x 430mm high; overall size 900mm x 2400mm high	No.	\$ 750.00
B2/7.14.16.1.4	Double leaf solid timber swing door; overall size 1500mm x 2400mm high	No.	\$ 980.00
B2/7.14.16.1.5	Double leaf solid timber swing door consist of 2 no of equal of fixed clear wired glass panel size 250mm x 430mm high; overall size 1500mm x 2400mm high	No.	\$ 1,248.00
B2/7.14.16.1.6	Double leaf solid timber swing door consist of 2 no of equal 12mm thick fixed glass panel size 250mm x 430mm high; overall size 1500mm x 2400mm high	No.	\$ 1,248.00
B2/7.14.17.1	<u>Two Hour Fire Rated</u>		
B2/7.14.17.1.1	Single leaf solid timber swing door; overall size 900mm x 2400mm high	No.	\$ 1,576.00
B2/7.14.17.1.2	Single leaf solid timber swing door consist of 1 no fixed clear wired glass panel size 250mm x 430mm high; overall size 900mm x 2400mm high	No.	\$ 1,750.00
B2/7.14.17.1.3	Single leaf solid timber swing door consist of 1 no 12mm thick fixed glass panel size 250mm x 430mm high; overall size 900mm x 2400mm high	No.	\$ 1,750.00
B2/7.14.17.1.4	Double leaf solid timber swing door; overall size 1500mm x 2400mm high	No.	\$ 1,980.00
B2/7.14.17.1.5	Double leaf solid timber swing door consist of 2 no of equal of fixed clear wired glass panel size 250mm x 430mm high; overall size 1500mm x 2400mm high	No.	\$ 2,248.00
B2/7.14.17.1.6	Double leaf solid timber swing door consist of 2 no of equal 12mm thick fixed glass panel size 250mm x 430mm high; overall size 1500mm x 2400mm high	No.	\$ 2,248.00



Item No.	Description	Unit	Rate
B2/7.15	<b>Fittings</b>		
B2/7.15.1	<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>		
B2/7.15.1.1	Counter not exceeding 950mm (H) x 900mm (W)	m	\$ 235.00
B2/7.15.1.2	Low level cabinet not exceeding 750mm (H) x 600mm (W)	m	\$ 210.00
B2/7.15.1.3	Wall hung cabinet not exceeding 600mm (H) x 600mm (W)	m	\$ 195.00
B2/7.15.2	<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>		
B2/7.15.2.1	Benches not exceeding 500mm (H) x 500mm (W)	m	\$ 185.00
B2/7.15.2.2	Cabinet up to ceiling height with a width of 600mm and approx. height of 3m	m	\$ 550.00
B2/7.15.3	<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>		
B2/7.15.3.1	Frames	m	\$ 1.00
B2/7.15.3.2	Surfaces / Layers	m2	\$ 2.00
B2/7.15.3.3	Door	m2	\$ 2.00
B2/7.15.3.4	Adjust / tighten misaligned / loose knob / hinges / door / drawer	Lot	\$ 2.00
B2/7.15.4	<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 Nos x 150mm Tow Bolt, all to match existing.</u>		
B2/7.15.4.1	Approx. size: ± 40mm x 1500mm x 2130mm, one-half leaf	set	\$ 450.00
B2/7.15.4.2	Approx. size: ± 40mm x 1830mm x 2130mm, double leaves	set	\$ 550.00
B2/7.15.5	<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
B2/7.15.6	<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 tiber 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>		
B2/7.15.6.1	± 38mm x 815mm x 2058mm	set	\$ 115.00
B2/7.15.6.2	± 38mm x 915mm x 2134mm	set	\$ 129.00
B2/7.15.6.3	± 38mm x 750mm x 2100mm with 410mm x 410mm aluminium ventilation louvers and frames	set	\$ 140.00
B2/7.15.7	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



Item No.	Description	Unit	Rate
B2/8.0	<b>IRONMONGERY</b>		
B2/8.1	<u>Supply and install stainless steel door lockset complete with screws as per S.O. or O.I.C's instruction</u>		
B2/8.1.1	rectangle lever lockset	No.	\$ 43.00
B2/8.1.2	round lever lockset	No.	\$ 22.00
B2/8.1.3	cylinder door knob lockset	No.	\$ 14.00
B2/8.1.4	sliding door lockset	No.	\$ 20.00
B2/8.2	<u>Supply and install; complete with screws as per S.O. or O.I.C's instruction</u>		
B2/8.2.1	stainless steel single cylinder deadbolts	No.	\$ 14.00
B2/8.2.2	stainless steel double cylinder deadbolts	No.	\$ 15.00
B2/8.2.3	rubber door stopper	No.	\$ 5.00
B2/8.2.4	stainless steel magnetic door stopper	No.	\$ 7.00
B2/8.3	<u>Remove existing, supply and fix 100mm Heavy duty steel butt hinges to B.S 1227 fixed to timber with matching screws;</u>		
B2/8.3.1	Stainless steel finish	No.	\$ 6.00
B2/8.3.2	Brass finish	No.	\$ 2.00
B2/8.4	Supply and fix Union 8094 CH indicating bolt or equivalent approved	No.	\$ 30.00
B2/8.5	Supply and fix Figo 587 SS or approved equivalent push button knob cylindrical lockset in brush silver finish	No.	\$ 30.00
B2/8.6	Supply and fix Figo 28A5 SN lever lockset or approved equivalent in brush silver finish	No.	\$ 60.00
B2/8.7	Supply and fix 90mm Union 8056 barrel bolt	No.	\$ 20.00
B2/8.8	<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
B2/8.9	Remove, supply and fix Union 88505E or approved equivalent door closer	No.	\$ 140.00
B2/8.10	<u>Remove existing and replace with new door lockset, as stated brand or other approved equivalent including other necessary works required.</u>		
B2/8.10.1	Union Knob Lockset	No.	\$ 21.00
B2/8.10.2	Union Double Lockset	No.	\$ 80.00
B2/8.10.3	Union Gower (model No.: 682-24-95)	No.	\$ 29.90
B2/8.10.4	Union Gower (model No.: 682-13-41)	No.	\$ 90.85
B2/8.10.5	Union Safety Lockset	No.	\$ 20.00
B2/8.10.6	Union 2477 mortice sliding lock, rebated	No.	\$ 38.54
B2/8.10.7	Union Door viewer	No.	\$ 8.40
B2/8.10.8	Union butt hinges	No.	\$ 4.00
B2/8.10.9	150mm door's Tow bolt	No.	\$ 5.00
B2/8.10.10	Union 8052 Flush Bolt, 150mm long	No.	\$ 25.20
B2/8.10.11	Union 8052 Flush Bolt, 200mm long	No.	\$ 30.45
B2/8.11	<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>		
B2/8.11.1	300mm x 200mm x 2mm	No.	\$ 30.00
B2/8.11.2	900mm x 200mm x 2mm	No.	\$ 75.00
B2/8.12	<u>Remove existing, supply and install;</u>		
B2/8.12.1	Union 7400 Door stops or approved equivalent; fixing to walls or floors	No.	\$ 11.00
B2/8.12.2	Rubber Door stops; fixing to walls or floors	No.	\$ 2.50
B2/8.12.3	anodised aluminium crescent lock for sliding window	No.	\$ 3.00
B2/8.12.4	anodised aluminium lever lock for window	No.	\$ 5.00
B2/8.12.5	mild steel dowels; letting into foot of timber frame / metal frame and concrete floor	No.	\$ 1.20
B2/8.12.6	door knob	No.	\$ 7.00



Item No.	Description	Unit	Rate
<b>B2/8.13</b>	<u>Remove existing and replace with new accessories to aluminium sliding doors / windows ancillaries / accessories and the likes including other necessary works required</u>		
<b>B2/8.13.1</b>	"RELIANCE " Sliding door lockset , or other approved equivalent	No.	\$ 8.70
<b>B2/8.13.2</b>	Aluminium Door Handles	No.	\$ 43.70
<b>B2/8.13.3</b>	Running Rollers	No.	\$ 5.75
<b>B2/8.13.4</b>	Running Track	No.	\$ 15.00
<b>B2/8.13.5</b>	Hinges	No.	\$ 5.00
<b>B2/8.13.6</b>	Aluminium Strips	m	\$ 5.00
<b>B2/8.13.7</b>	Neoprene Gasket	m	\$ 3.00
<b>B2/8.13.8</b>	Window Lock/Handle	No.	\$ 8.00
<b>B2/8.14</b>	<b>Signage</b>		
<b>B2/8.14.1</b>	<u>To supply and install 10mm acrylic embossed stainless steel door sign in approved color to the satisfaction of the Superintending Officer.</u>		
<b>B2/8.14.1.1</b>	Door sign, overall size; 250mm (W) x 60mm (H)	No.	\$ 15.00
<b>B2/8.14.1.2</b>	Door sign, overall size; 100mm (W) x 100mm (H)	No.	\$ 20.00
<b>B2/8.14.2</b>	<u>To supply and install 10mm acrylic door sign in approved color to the satisfaction of the Superintending Officer</u>		
<b>B2/8.14.2.1</b>	Door signage, overall size; 250mm (W) x 60mm (H)	No.	\$ 10.00
<b>B2/8.14.2.2</b>	Door signage, overall size; 100mm (W) x 100mm (H)	No.	\$ 15.00
<b>B2/8.14.3</b>	<u>Signages complete with prefabricated and moulded stainless steel panel in natural finish with plywood backing, bevel edging, lettering are in approved color with approved size and arabic lettering to be 3 times size of Malay lettering on grey color plastic sticker, all as per the satisfaction of the Superintending Officer.</u>		
<b>B2/8.14.3.1</b>	Door signage overall size 560mm long x 160mm high	No.	\$ 75.00
<b>B2/8.14.4</b>	<u>Signages complete with prefabricated and moulded stainless steel panel in natural finish cladged around to mild steel frame, lettering are in approved color with approved size and arabic lettering to be 3 times size of Malay lettering, all as per the satisfaction of the Superintending Officer.</u>		
<b>B2/8.14.4.1</b>	Floor directory signage overall size 1000mm long x 200mm wide x 1660mm high complete with reinforced concrete plinth.	No.	\$ 1,700.00
<b>B2/8.14.5</b>	<u>Signages complete with Islamic etching pattern on stainless steel plate, plain stainless steel plate with lettering in approved colour plastic sticker, 8mm thick colour perspex finish, fixed to brickwall with dome shape stainless steel flush bolts, all as per the satisfaction of the Superintending Officer.</u>		
<b>B2/8.14.5.1</b>	Floor indicator signage overall size 400mm long x 2000mm high	No.	\$ 1,200.00
<b>B2/8.14.6</b>	<u>Perspex base with coloured background, fibreglass at both sides and stainless steel channel frame; machine polished; 2 no. 75mm diameter x 2200mm high stainless steel tube posts with 75mm diameter stainless steel round balls complete with stainless steel bolts, washer and nuts; 200mm x 200mm x 300mm RC footing; logo, self adhesive lettering, 140mm high Arabic font and 75mm high Malay font of approved Colour ; all as per Superintending Officer approval</u>		
<b>B2/8.14.6.1</b>	1800mm x 1200mm x 5mm	No.	\$ 740.00
<b>B2/8.14.6.2</b>	1800mm x 1200mm x 8mm	No.	\$ 780.00
<b>B2/8.15</b>	To supply and install 10mm acrylic signage in approved color to the satisfaction of the Superintending Officer.	m2	\$ 1,500.00



Item No.	Description	Unit	Rate
B2/9.0	<b>METAL WORKS</b>		
B2/9.1	<u>General repair to existing 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
B2/9.2	<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>		
B2/9.2.1	anodised aluminium door complete with frame, hinges, lockset and any necessary accessories	m2	\$ 180.00
B2/9.2.2	anodised aluminium door with 6mm thick half glass complete with frame, hinges, lockset and any necessary accessories	m2	\$ 135.00
B2/9.2.3	anodised aluminium louvers door complete with frame, hinges, lockset and any necessary accessories	m2	\$ 190.00
B2/9.3	<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>		
B2/9.3.1	Generally	m2	\$ 185.00
B2/9.3.2	± 38mm x 700mm x 2100mm	Set	\$ 275.00
B2/9.3.3	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
B2/9.3.4	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
B2/9.4	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
B2/9.5	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
B2/9.6	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
B2/9.7	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
B2/9.8	<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>		
B2/9.8.1	5 blades	Set	\$ 10.50
B2/9.8.2	7 blades	Set	\$ 12.50
B2/9.8.3	8 blades	Set	\$ 14.00
B2/9.9	<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>		
B2/9.9.1	Sliding window	m2	\$ 75.00
B2/9.9.2	Fixed window	m2	\$ 75.00
B2/9.9.3	Top hung	m2	\$ 85.00
B2/9.9.4	Casement window	m2	\$ 85.00
B2/9.10	<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>		
B2/9.10.1	Sliding window	m2	\$ 145.00
B2/9.10.2	Fixed window	m2	\$ 145.00
B2/9.10.3	Top hung	m2	\$ 175.00
B2/9.10.4	Casement window	m2	\$ 175.00



Item No.	Description	Unit	Rate
B2/9.11	<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>		
B2/9.11.1	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
B2/9.11.2	Remove existing, supply and install; Powder coated aluminium sun breaker including frame and other accessories	m2	\$ 198.00
B2/9.11.3	Remove existing, fabricate and Install Amplimesh aluminium security grille including framing	m2	\$ 161.00
B2/9.12	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
B2/9.13	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
B2/9.14	<u>Remove existing, fabricate and fix new aluminium roller shutter</u>		
B2/9.14.1	including electric motor with wiring and control panel	m2	\$ 450.00
B2/9.14.2	including connection to existing electric motor	m2	\$ 300.00
B2/9.14.3	(manual mechanism type) including all other accessories	m2	\$ 300.00
B2/9.15	<b><u>Flag Pole</u></b>		
B2/9.15.1	<u>Supply and fix approved ground mounted stainless steel flag poles, reinforced concrete base, including all necessary excavation, disposal, blinding, formwork, reinforcement; flat bar support imbedded in concrete and welded on reinforced concrete floor reinforcement bar; all necessary fittings and accessories for flag raising; with the Superintending Officer's and Manufacturer's Specification and Instructions.</u>		
B2/9.15.1.1	3mm thick stainless steel ground mounted flag pole; overall size 120mm(base) to 60mm(tip) diameter x 7500mm high	No.	\$ 1,700.00
B2/9.15.1.2	3mm thick stainless steel ground mounted flag pole; overall size 135mm(base) to 60mm(tip) diameter x 9000mm high	No.	\$ 2,100.00
B2/9.15.2	<u>Remove existing flag pole rope; supply and install new Steel Wire Rope to the existing flag pole; with the Superintending Officer's and Manufacturer's Specification and Instructions.</u>		
B2/9.15.2.1	8mm	m	\$ 6.00
B2/9.15.2.2	10mm	m	\$ 8.00
B2/9.15.2.3	12mm	m	\$ 9.00
B2/9.15.2.4	13mm	m	\$ 12.00
B2/9.16	<b><u>Replacement of new Aluminium Channel Curtain and the likes;</u></b>		
B2/9.16.1	Repair existing aluminium channel curtain track comprising pull card, guides, returns, running rollers and other accessories required inclusive refixing to wall	No.	\$ 10.00
B2/9.16.2	<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
B2/9.16.3	<u>Remove existing and replace with new aluminium curtain track accessories similar to existing, inclusive refixing to its original position</u>		
B2/9.16.3.1	Pully cord	m	\$ 2.00
B2/9.16.3.2	Huides	No.	\$ 3.50
B2/9.16.3.3	Returns	No.	\$ 1.50
B2/9.16.3.4	Rollers	No.	\$ 0.50
B2/9.16.3.5	Pulley	No.	\$ 2.00
B2/9.17	<b><u>Mosquito Netting</u></b>		
B2/9.17.1	<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>		
B2/9.17.1.1	Nylon mesh netting	m2	\$ 4.50
B2/9.17.1.2	Aluminium mesh netting	m2	\$ 7.70



Item No.	Description	Unit	Rate
B2/9.17.2	<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>		
B2/9.17.2.1	Nylon mesh netting with timber framing	m2	\$ 8.50
B2/9.17.2.2	Aluminium mesh netting with aluminium framing	m2	\$ 13.50
B2/9.18	<b><u>Metal Structures</u></b>		
B2/9.18.1	<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>		
B2/9.18.1a	<u>Square hollow section</u>		
B2/9.18.1a.1	25mm x 25mm	m	\$ 4.00
B2/9.18.1a.2	50mm x 50mm	m	\$ 7.00
B2/9.18.1a.3	75mm x 75mm	m	\$ 10.00
B2/9.18.1a.4	100mm x 100mm	m	\$ 15.00
B2/9.18.1b	<u>Rectangular hollow section</u>		
B2/9.18.1b.1	50mm x 75mm	m	\$ 9.00
B2/9.18.1b.2	50mm x 100mm	m	\$ 12.00
B2/9.18.1b.3	75mm x 100mm	m	\$ 13.00
B2/9.18.1b.4	75mm x 125mm	m	\$ 16.00
B2/9.18.1b.5	100mm x 150mm	m	\$ 22.00
B2/8.18.1c	<u>Circular hollow section</u>		
B2/8.18.1c.1	18mm Ø	m	\$ 4.00
B2/8.18.1c.2	25mm Ø	m	\$ 6.00
B2/8.18.1c.3	50mm Ø	m	\$ 11.00
B2/8.18.1c.4	100mm Ø	m	\$ 20.00
B2/9.18.2	<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>		
B2/9.18.2.1	18mm Ø	m	\$ 6.00
B2/9.18.2.2	25mm Ø	m	\$ 9.00
B2/9.18.2.3	50mm Ø	m	\$ 14.00
B2/9.18.2.4	75mm Ø	m	\$ 20.00
B2/9.18.2.5	100mm Ø	m	\$ 23.00
B2/9.18.3	<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>		
B2/9.18.3.1	18mm Ø	m	\$ 6.00
B2/9.18.3.2	25mm Ø	m	\$ 9.00
B2/9.18.3.3	50mm Ø	m	\$ 14.00
B2/9.18.3.4	75mm Ø	m	\$ 20.00
B2/9.18.3.5	100mm Ø	m	\$ 23.00
B2/9.19	<b><u>Proprietary gratings, covers and frames</u></b>		
B2/9.19.1	<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>		
B2/9.19.1.1	Not exceeding 200mm wide	m	\$ 20.00
B2/9.19.1.2	Not exceeding 250mm wide	m	\$ 25.00
B2/9.19.1.3	Not exceeding 300mm wide	m	\$ 30.00
B2/9.19.1.4	Not exceeding 330mm wide	m	\$ 33.00



Item No.	Description	Unit	Rate
B2/9.19.2	<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>		
B2/9.19.2.1	Not exceeding 200mm wide	m	\$ 40.00
B2/9.19.2.2	Not exceeding 250mm wide	m	\$ 45.00
B2/9.19.2.3	Not exceeding 300mm wide	m	\$ 50.00
B2/9.19.2.4	exceeding 500mm wide	m	\$ 60.00
B2/9.19.3	<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>		
B2/9.19.3.1	Not exceeding 300mm wide drain	m	\$ 111.00
B2/9.19.3.2	generally	m2	\$ 370.00
B2/9.19.4	<u>Remove existing, fabricate and install MS security grille to window consists of 25mm x 25mm SHS frame infilled with;</u>		
B2/9.19.4.1	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
B2/9.19.4.2	20mm x 4mm flat in brick pattern	m2	\$ 77.50
B2/9.19.5	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
B2/9.19.6	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
B2/9.19.7	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 pettern 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
B2/9.19.8	Remove existing, fabricate and install MS collapsible gate including running track, lockset and other necessary accessories	m2	\$ 130.00
B2/9.19.9	Repair and fix loose / tilted / misaligned sliding security grille including running track by adjusting or tightening existing accessories and fittings or to replace with new and make good work disturbed.	Lot	\$ 10.00
B2/9.19.10	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 required	No.	\$ 30.00
B2/9.19.11	<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>		
B2/9.19.11.1	1580mm x 720mm	No.	\$ 340.00
B2/9.19.11.2	generally	m2	\$ 300.00
B2/9.19.12	<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
B2/9.19.13	Remove existing and fabricate and install new heavy duty stainless steel hinges, welded to door and frame, all to OIC approval	m	\$ 30.00



Item No.	Description	Unit	Rate
B2/9.20	To hack and form shallow scupper drain 100mm - 150mm wide including tiling if necessary and all necessary works	m	\$ 10.00
B2/9.21	<u>Remove existing, supply and install the following; Fabricate and fix new metal handrail 1100mm high; complete with welded joints, plates, covering plates, bolts, cast into concrete; make good works disturbed;</u>		
B2/9.21.1	<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>		
B2/9.21.1.1	Corridor	m	\$ 60.00
B2/9.21.1.2	Staircase	m	\$ 62.00
B2/9.21.2	<u>Stainless steel (Grade 316) handrail consists of 50mm top rail and post at 200mm centre and 38mm bottom rail infilled with 18mm baluster at 100mm centre</u>		
B2/9.21.2.1	Corridor	m	\$ 140.00
B2/9.21.2.2	Staircase	m	\$ 142.00
B2/9.21.3	<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>		
B2/9.21.3.1	Corridor	m	\$ 80.00
B2/9.21.3.2	Staircase	m	\$ 82.00
B2/9.21.4	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
B2/9.22	<u>Remove, supply and install metal plate cover and all necessary works and make good works disturbed</u>		
B2/9.22.1	mild steel	m2	\$ 8.00
B2/9.22.2	aluminium	m2	\$ 12.00
B2/9.22.3	stainless steel	m2	\$ 16.00
B2/9.23	<u>Remove, supply and install mild steel 'L' angle bar and all necessary works and make good works disturbed</u>		
B2/9.23.1	25mm / 25mm x 3mm thick	m	\$ 2.10
B2/9.23.2	40mm / 40mm x 5mm thick	m	\$ 4.50
B2/9.23.3	50mm / 50mm x 5mm thick	m	\$ 7.80
B2/10.0	<b><u>PLASTERER, FLOOR AND WALL FINISHES</u></b>		
B2/10.1	<b><u>In situ Finishes</u></b>		
	<u>Cement and sand screed (1:3 mix) to receive finishes</u>		
B2/10.1.1	13mm thick to walls	m2	\$ 6.50
B2/10.1.2	25mm thick to concrete floor, walls etc; laid to fall if required	m2	\$ 8.00
B2/10.1.3	38mm thick to concrete floor laid to fall	m2	\$ 11.00
B2/10.2	<b><u>Removal &amp; Laying/Relaying Existing/New Tile Finishes</u></b>		
B2/10.2.1	<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>		
B2/10.2.1.1	wall/ floor	m2	\$ 3.50
B2/10.2.1.2	nosing/skirting	m2	\$ 1.00
B2/10.2.2	<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>		
B2/10.2.2.1	wall/ floor	m2	\$ 15.00
B2/10.2.2.2	nosing/skirting	m	\$ 2.00



Item No.	Description	Unit	Rate
B2/10.2.3	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 tile's grout; including general cleaning and polishing upon completion		
B2/10.2.3.1	Cearmic tiles	m2	\$ 25.00
B2/10.2.3.2	Homogeneous tiles	m2	\$ 46.00
B2/10.2.3.3	Homogeneous Polished tiles	m2	\$ 72.00
B2/10.2.3.4	Homogeneous Rock Finish tiles	m2	\$ 47.00
B2/10.2.3.5	nosing	m	\$ 4.00
B2/10.2.3.6	100mm skirting	m	\$ 4.00
B2/10.3	<b><u>Carpet Floor Finishes</u></b>		
B2/10.3.1	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		
B2/10.3.1.1	5mm	m2	\$ 30.00
B2/10.3.1.2	7mm	m2	\$ 38.00
B2/10.3.1.3	8.2mm	m2	\$ 90.00
B2/10.3.2	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		
B2/10.3.2.1	plain	pcs	\$ 4.00
B2/10.3.2.2	pattern	pcs	\$ 6.00
B2/10.3.2.3	special	pcs	\$ 9.00
B2/10.3.2.4	plain	m2	\$ 39.00
B2/10.3.2.5	pattern	m2	\$ 63.00
B2/10.3.2.6	special	m2	\$ 99.00
B2/10.4	<b><u>Vinyl Floor Finishes</u></b>	m2	\$ 40.00
	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		
B2/10.5	<b><u>SPC Floor Finishes</u></b>		
	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		
B2/10.5.1	5mm	m2	\$ 60.00
B2/10.5.2	8mm	m2	\$ 80.00
B2/10.6	<b><u>Timber Laminated Floor Finishes</u></b>	m2	\$ 40.00
	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		
B2/10.7	<b><u>Parquet Flooring Finishes</u></b>		
B2/10.7.1	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
B2/10.7.2	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
B2/10.8	<b><u>Polypropylene Sports Floor Finishes</u></b>		
B2/10.8.1	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



Item No.	Description	Unit	Rate
B2/10.8.2	Remove existing; supply and lay Covaccrete 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
B2/10.9	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
B2/10.10	<b>External Wall Cladding</b>		
B2/10.10.1	<b>Metal Cladding</b>		
B2/10.10.1.1	<u>Remove existing ; Supply and install/ fix approved metal sheet with Polyvinylidene fluoride (PVDF) coating complete with all necessary structural support frames, sub-structure frames, etc including bracket, bolts, capping, coping, sealant, anchorages and all necessary proprietary fixings; all in accordance with Manufacturer's Specification and Instructions.</u>		
	<u>INTERLINE' metal wall cladding;</u>		
B2/10.10.1.1.1	0.53mm thick TCT external cladding system 470mm width	m2	\$ 35.00
B2/10.10.1.1.2	0.47mm thick TCT external cladding system 470mm width	m2	\$ 31.00
	<u>'LSL' metal wall cladding</u>		
B2/10.10.1.1.3	0.47mm thick TCT external cladding system 760mm width	m2	\$ 11.00
B2/10.10.1.1.4	0.40mm thick TCT external cladding system 760mm width	m2	\$ 10.00
	<u>'LYSAGHT' metal wall cladding;</u>		
B2/10.10.1.1.5	0.53mm thick TCT external cladding system 500mm width	m2	\$ 21.00
B2/10.10.1.1.6	0.47mm thick TCT external cladding system 500mm width	m2	\$ 18.00
B2/10.10.2	<b>Aluminium Cladding</b>		
B2/10.10.2.1	<u>Remove existing; Supply and install / fix approved aluminium composite panel (ACP) cladding complete with 3 layers of nano-pvdf coating and including aluminium alloy frame, aluminium slats, all necessary structural support frames and fittings, accessories, etc including bracket, bolts, pointing frame, all strictly in accordance with the Superintending Officer's and Manufacturer's Specification and Instructions.</u>		
B2/10.10.2.1.1	'SKY RAINBOW', 4mm thick to wall and column	m2	\$ 165.00
B2/10.10.2.1.2	'ALUCOBOND', 4mm thick to wall	m2	\$ 145.00
B2/10.10.2.1.3	'ALUCOMAT', 4mm thick to wall	m2	\$ 165.00
B2/10.10.2.1.4	'SKY RAINBOW', 4mm thick to ceiling	m2	\$ 165.00
B2/10.10.2.1.5	'ALUCOBOND', 4mm thick to ceiling	m2	\$ 145.00
B2/10.10.2.1.6	'ALUCOMAT', 4mm thick to ceiling	m2	\$ 165.00
B2/10.11	<b>Wall Finishes</b>		
B2/10.11.1	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
B2/10.11.2	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
B2/10.11.3	<u>Supply and install 'DIACRETE' or approved equivalent acoustic wall panel system complete with approved thickness, pattern, selective approved fabric finish, painting to other exposed area including all necessary structural support frames, sub-structure frames and fixings; all in accordance with Manufacturer's Specification and Superintending Officer Instruction</u>	m2	\$ 350.00
	Sound absorbing hexagonal foam panel		



Item No.	Description	Unit	Rate
B2/10.11.4	<u>Supply and install approved half-padded walls including other necessary works and accessories polyurethane foam 3cm thick with wood sheet, covered with PVC including all necessary structural support frames, sub-structure frames and fixings; all in accordance with Manufacturer's Specification and and Superintending Officer instruction.</u>  Padded walls; size 600mm x 250mm	m2	\$ 115.00
B2/11.0	<b><u>RAINWATER GOODS</u></b>		
B2/11.1	<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>		
B2/11.1.1	not exceeding 100mm diameter	m	\$ 13.00
B2/11.1.2	100mm diameter	m	\$ 17.00
B2/11.1.3	150mm diameter	m	\$ 26.00
B2/11.1.4	200mm diameter	m	\$ 34.00
B2/11.2	<u>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>		
B2/11.2.1	not exceeding 100mm diameter	m	\$ 11.00
B2/11.2.2	100mm diameter	m	\$ 15.00
B2/11.2.3	150mm diameter	m	\$ 24.00
B2/11.2.4	200mm diameter	m	\$ 32.00
B2/11.3	<u>Remove existing, supply and install gutter outlet with spigots for pipe</u>		
B2/11.3.1	100mm diameter pipe	No.	\$ 40.95
B2/11.3.2	150mm diameter pipe	No.	\$ 61.95
B2/11.4	<u>Hack existing concrete or cut into metal gutter and cast into concrete including all necessary formwork</u>		
B2/11.4.1	100mm diameter	m	\$ 15.00
B2/11.4.2	150mm diameter	m	\$ 22.00
B2/11.5	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
B2/11.6	Remove existing damaged UPVC or metal gutter, downpipes, etc. and dispose offsite and prepare existing roof structure to receive new finishing.	m	\$ 3.00
B2/11.7	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
B2/11.8	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
B2/11.9	<u>Supply and fix profiled Stainless Steel gutter, Grade 316, bents to required profiled below roof coverings complete with 20mm thick marine plywood backing all round, cap with 150mm long flashing and eave foam filler with drip angle at both end and base framing, all strictly in accordance with the Manufacturer's Specification and Instructions.</u>		
B2/11.9.1	0.47mm thick gutter; overall girth 457mm	m	\$ 57.00
B2/11.9.2	0.54mm thick gutter; overall girth 457mm	m	\$ 64.00
B2/11.9.3	0.80mm thick gutter; overall girth 457mm	m	\$ 85.00



Item No.	Description	Unit	Rate
B2/11.10	<u>Supply and fix profiled Galvanised Steel gutter, bents to required profiled below roof coverings complete with 20mm thick marine plywood backing all round, cap with 150mm long flashing and eave foam filler with drip angle at both end and base framing, hot dipped in molten zinc, all strictly in accordance with the Manufacturer's Specification and Instructions.</u> <u>E 285 0.47mm thick gutter; overall girth 457mm</u>		
B2/11.10.1	0.47mm thick gutter; overall girth 457mm	m	\$ 42.00
B2/11.10.2	0.54mm thick gutter; overall girth 457mm	m	\$ 45.00
B2/11.10.3	0.80mm thick gutter; overall girth 457mm	m	\$ 69.00
B2/11.11	<u>Supply and fix metal gutter, bents to required profiled below roof coverings complete with 20mm thick marine plywood backing all round, cap with 150mm long flashing and eave foam filler with drip angle at both end and base framing, all strictly in accordance with the Manufacturer's Specification and Instructions.</u>		
B2/11.11.1	0.47mm thick gutter; overall girth 457mm	m	\$ 42.00
B2/11.11.2	0.54mm thick gutter; overall girth 457mm	m	\$ 45.00
B2/11.11.3	0.80mm thick gutter; overall girth 457mm	m	\$ 69.00
B2/11.12	<u>Supply and fix approved heavy-duty UPVC gutter, complete with brackets, extension joint, drop outlets, debris guard etc. complete with the necessary fixing accessories, all strictly in accordance with the Manufacturer's Specification and Instructions.</u>		
B2/11.12.1	0.47mm thick gutter; overall girth 457mm	m	\$ 42.00
B2/11.12.2	0.54mm thick gutter; overall girth 457mm	m	\$ 45.00
B2/11.12.3	0.80mm thick gutter; overall girth 457mm	m	\$ 69.00
B2/12.0	<b>SANITARY FITTINGS</b>		
B2/12.1	<u>Demolition / Remove existing sanitary fittings</u> <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>		
B2/12.1.1	wash basins	No.	\$ 12.00
B2/12.1.2	Vanity wash basins including hacking out and removing off reinforced concrete counters, walls, etc.	No.	\$ 35.00
B2/12.1.3	W.C suites complete with cistern	No.	\$ 35.00
B2/12.1.4	Squatting closet type including hacking and removing concrete plinths	No.	\$ 35.00
B2/12.1.5	Long bath including hacking out and removing concrete plinths / shower mixer	No.	\$ 35.00
B2/12.1.6	Shower trays	No.	\$ 35.00
B2/12.1.7	Concrete water usage	No.	\$ 23.00
B2/12.2	<u>Remove &amp; set aside for re-use</u> <u>To take out, remove and set aside for re-use of existing sanitary fittings and to reinstall including reassembly and rejoining together with new plugging and screwing and / or building new screws, hangers, brackets, clips and any necessary fittings and connectors 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 waste pipes and to seal off any opening temporarily with appropriate plug / closer. Rate shall also 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>		
B2/12.2.1	wash basins	No.	\$ 23.00
B2/12.2.2	Vanity wash basins including hacking out and removing off reinforced concrete counters, walls, etc.	No.	\$ 46.00
B2/12.2.3	W.C suites complete with cistern	No.	\$ 46.00
B2/12.2.4	Squatting closet type including hacking and removing concrete plinths	No.	\$ 46.00
B2/12.2.5	Long bath including hacking out and removing concrete plinths / shower mixer	No.	\$ 35.00
B2/12.2.6	Shower trays	No.	\$ 30.00
B2/12.3	Remove existing stainless steel sink unit including hacking out concrete bench, application of silicone sealant and make good disturbed	No.	\$ 30.00



Item No.	Description	Unit	Rate
B2/12.4	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 soil and waste pipes with all new necessary accessories, connectors and fittings	No.	\$ 173.00
B2/12.5	<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
B2/12.6	<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 sealant, 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>		
B2/12.6.1	<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
B2/12.6.2	<u>Take out existing and replace with new 800mm x 800mm fiber glass shower tray</u> White	No.	\$ 259.00
B2/12.6.3	<u>Wash basins; vitreous china, wall hung with fixing brackets, 15mm trap waste, plug, chain and bolt stay</u> White	Set	\$ 120.00
B2/12.6.4	<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
B2/12.6.5	American Standard Kimera TF-0996 / 0792 Wash Basin : 611mm x 504mm x 830mm complete with pedestal or approved equivalent	Set	\$ 140.00
B2/12.6.6	Remove existing and replace with new plug & chain to wash basin / sink to match existing	Set	\$ 5.00
B2/12.6.7	<u>Remove existing and replace with new stainless steel laundry basin including applying silicone sealant and other necessary works required</u>		
B2/12.6.7.1	Single bowl with single drainer	Set	\$ 100.00
B2/12.6.7.2	Single bowl with double drainer	Set	\$ 150.00
B2/12.6.7.3	Double bowl with single drainer	Set	\$ 150.00
B2/12.6.7.4	Double bowl with double drainer	Set	\$ 188.00
B2/12.6.8	Vanity top deep reinforced with 2 layers of BRC A7 with oval opening and tiles all exposed surfaces with homogeneous tiles finish to; 100mm thick x 900mm long x 600mm deep for 1 no. of sink	No.	\$ 200.00
B2/12.6.9	<u>Remove the existing and fix new wash basin wall hung with fixing brackets; trap, waste, plug and other necessary items</u>		
B2/12.6.9.1	Oval-shaped "White Vitreous China"	No.	\$ 80.00
B2/12.6.9.2	Wash Basin, 400mm x 550mm - White	No.	\$ 90.00
B2/12.6.9.3	Wash Basin, 360mm x 450mm - White	No.	\$ 80.00
B2/12.6.10	Cast iron brackets including fixing to the tile / concrete wall	No.	\$ 15.00
B2/12.6.11	Ditto but to remove and replace Wash basin including tap, cast iron brackets and all fittings	No.	\$ 180.00
B2/12.6.12	Ditto but to remove and replace cast iron bracket for wash hand basin and necessary fittings only	No.	\$ 18.00
B2/12.6.13	Remove existing water closet / cistern, complete with all necessary works and make good disturbed	No.	\$ 25.00



Item No.	Description	Unit	Rate
B2/12.6.14	<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>		
B2/12.6.14.1	American Standard: Squatting type or other technically approved equivalent (Vitreous China high / low - White)	No.	\$ 290.00
B2/12.6.14.2	American Standard or other approved equivalent (Vitreous China high / low - White)	No.	\$ 300.00
B2/12.6.14.3	American Standard close coupled or other technically approved equivalent (Vitreous China - White)	No.	\$ 300.00
B2/12.6.15	<u>Water Closet Cistern Tank with complete necessary fittings</u>		
B2/12.6.15.1	UPVC	No.	\$ 40.00
B2/12.6.15.2	Vitreous China or other technically approved equivalent	No.	\$ 80.00
B2/12.6.16	<u>Cistern Cover</u>		
B2/12.6.16.1	Plain Vitreous China	No.	\$ 48.00
B2/12.6.16.2	Plain UPVC	No.	\$ 15.00
B2/12.6.16.3	With dual flush push mechanism	No.	\$ 60.00
B2/12.6.17	<u>Water Closet Bowl</u>		
B2/12.6.17.1	European Type	No.	\$ 200.00
B2/12.6.17.2	Asian Squatting Type	No.	\$ 150.00
B2/12.6.17.3	Ditto but to replace Single Bowl Toilet	No.	\$ 134.00
B2/12.6.17.4	Ditto but to replace Toilet Flush Valve w/ vacuum breaker	No.	\$ 324.00
B2/12.6.17.5	Ditto but to replace Toilet Inlet Spud	No.	\$ 40.00
B2/12.6.17.6	Ditto but to replace Squatting Toilet (Top Inlet)	No.	\$ 150.00
B2/12.6.17.7	Ditto but replace Squatting toilet flush valve w/ vacuum breaker	No.	\$ 380.00
B2/12.6.18	<u>Bath Room accessories</u>		
B2/12.6.18.1	Ditto but 500mm x 150mm glass shelving complete with chromium plated brackets	No.	\$ 27.00
B2/12.6.18.2	Ditto but 150mm x 150mm soap holder, toilet roll holder or approved equivalent	No.	\$ 45.00
B2/12.6.18.3	Ditto but 610mm long towel rail with brackets (Chrome plated) or approved equivalent	No.	\$ 45.00
B2/12.6.19	<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
B2/12.6.20	<u>Pedestal pan seat and cover</u>		
B2/12.6.20.1	Ordinary (White)	No.	\$ 15.00
B2/12.6.20.2	Close - coupled heavy duty (White)	No.	\$ 40.00
B2/12.6.21	<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
B2/12.6.22	Water closet cistern, low level vitreous china pedestal pan including other necessary accessories and works required White	Set	\$ 120.00
B2/12.6.23	Remove existing and replace with new plastic cistern including other necessary accessories and works required	Set	\$ 50.00
B2/12.6.24	Remove existing and replace with new tank fitting to W.C cistern	No.	\$ 50.00
B2/12.6.25	Ditto with new 1½" Ø UPVC flush pipe including connection to cistern and pan, brackets fixing to wall	No.	\$ 12.00
B2/12.6.26	Ditto with new rubber joint connector for W.C inlet flush pipe	No.	\$ 12.00
B2/12.6.27	Remove and connect new expansion bolt for W.C cistern including drilling holes on concrete wall	No.	\$ 15.00



Item No.	Description	Unit	Rate
B2/12.6.28	<u>Remove existing and replace new soap / sponge holder to match existing or other pproved equivalent</u>		
B2/12.6.28.1	American Standard - 150mm x 150mm soap holder	No.	\$ 20.00
B2/12.6.28.2	American Standard - 250mm x 150mm soap and sponge holder	No.	\$ 25.00
B2/12.6.29	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	No.	\$ 140.00
B2/12.6.30	<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</u> American Standard or equivalent	No.	\$ 75.00
B2/12.6.31	<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>		
B2/12.6.31.1	New Hand / Telephone shower complete with 1200mm flexible hose for bath mixer	No.	\$ 58.00
B2/12.6.31.2	New Hand / Telephone shower	No.	\$ 29.00
B2/12.6.31.3	New 4" Ø shower rose / head	No.	\$ 31.00
B2/12.6.31.4	New Hand Spray only (without flexible hose)	No.	\$ 9.00
B2/12.6.32	<u>Remove existing and replace with new;</u>		
B2/12.6.32.1	½" Ø x 1200mm long flexible hose	No.	\$ 9.00
B2/12.6.32.2	½" Ø x 1200mm long stainless steel hose	No.	\$ 12.00
B2/12.6.32.3	½" Ø x 1200mm long stainless steel hose, Nozzle type	No.	\$ 15.00
B2/12.6.32.4	Stainless steel towel rail with brackets (length 900mm - 1200mm)	No.	\$ 45.00
B2/12.6.33	<u>Mirror</u>		
B2/12.6.33.1	Remove existing mirror including aluminium framing of any sizes	No.	\$ 10.00
B2/12.6.33.2	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
B2/12.6.34	<u>Anal Spray &amp; Nozzle</u>		
B2/12.6.34.1	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
B2/12.6.34.2	<u>Remove existing, replace and fix the new following item, brand to follow existing or any other approved equivalent</u>		
B2/12.6.34.2a	UPVC anal spray including hose and lever type tap	No.	\$ 35.00
B2/12.6.34.2b	Anal nozzle hose and lever type tap	No.	\$ 30.00
B2/12.6.34.2c	Single lever bath & shower	No.	\$ 193.00
B2/12.6.35	<u>Stainless Steel / Aluminium Kitchen Sink</u>		
B2/12.6.35.1	<u>Remove the existing and fix including application of silicone sealant and hacking out concrete bench and make good disturbed</u>		
B2/12.6.35.1a	Single bowl drainer	No.	\$ 110.00
B2/12.6.35.1b	Double bowl drainer	No.	\$ 190.00
B2/12.6.35.2	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
B2/12.6.35.3	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
B2/12.6.35.4	Ditto but remove and replace single bowl drainer S/S Sink (approx. 765mm x 480mm x 180mm, including 3¼ basket strainer waste S/S, UPVC bottle trap, ½" x ¾" angle stop cock (Tringle) and all fittings	No.	\$ 360.00



Item No.	Description	Unit	Rate
B2/12.7	<b>Sundries</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 goo disturbed</u>		
B2/12.7.1	<u>Bottle Trap /Tubular / P Trap</u>		
B2/12.7.1.1	UPVC - 38mm diameter bottle trap	No.	\$ 12.00
B2/12.7.1.2	UPVC - 45mm diameter bottle trap	No.	\$ 14.00
B2/12.7.1.3	UPVC - 50mm diameter Tubular "P" trap	No.	\$ 20.00
B2/12.7.1.4	UPVC - 75mm diameter "P" trap with rodding eyes	No.	\$ 23.00
B2/12.7.1.5	HDPE bottle trap	No.	\$ 25.00
B2/12.7.1.6	Stainless steel - 50mm diameter "P".trap	No.	\$ 50.00
B2/12.7.2	Ditto but remove and replace "SHOWY" but plastic bottle trap various size	No.	\$ 10.50
B2/12.7.3	<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>		
B2/12.7.3.1	100mm diameter	No.	\$ 80.00
B2/12.7.3.2	150mm diameter	No.	\$ 100.00
B2/12.7.4	<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>		
B2/12.7.4.1	UPVC floor drain trap grating	No.	\$ 10.00
B2/12.7.4.2	150mm x 150mm UPVC hinge floor grating	No.	\$ 15.00
B2/12.7.4.3	> 150mm x 150mm UPVC hinge floor grating	No.	\$ 20.00
B2/12.7.5	<u>Stainless steel floor drain trap grating</u>		
B2/12.7.5.1	100mm diameter stainless steel floor grating	No.	\$ 25.00
B2/12.7.5.2	150mm diameter stainless steel floor grating	No.	\$ 30.00
B2/12.7.5.3	Ditto but to remove and replace 32mm (1½") diameter Chromium plated flat grating	No.	\$ 5.00
B2/12.7.5.4	Ditto but to remove and replace 40mm (1½") diameter Chromium plated flat grating	No.	\$ 6.00
B2/12.7.5.5	Ditto but to remove and replace 50mm (2") diameter Chromium plated flat grating	No.	\$ 5.00
B2/12.7.5.6	Ditto but to remove and replace 75mm (3") diameter Chromium plated flat grating	No.	\$ 6.00
B2/12.7.5.7	Ditto but to remove and replace 100mm (4") diameter Chromium plated flat grating	No.	\$ 8.00
B2/12.7.5.8	Ditto but to remove and replace 100mm SHOWY 7044 (4") diameter Chromium plated flat grating	No.	\$ 34.00
B2/12.7.5.9	Ditto but to remove and replace gully trap cover for 150mm x 150mm to 300mm x 300mm (M.S)	No.	\$ 30.00
B2/12.7.5.10	<u>Ditto but to remove and replace gully trap size:</u>		
B2/12.7.5.10a	200mm x 200mm	No.	\$ 45.00
B2/12.7.5.10b	300mm x 300mm	No.	\$ 63.00
B2/12.7.5.11	<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>		
B2/12.7.5.11a	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
B2/12.7.5.11b	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
B2/12.7.5.12	<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 695mm x 545mm x 45mm overall</u>	No.	\$ 130.00
B2/12.7.5.13	<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 670mm x 670mm x 75mm overall</u>	No.	\$ 217.00



Item No.	Description	Unit	Rate
B2/12.7.5.16	<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 600mm x 450mm overall</u>	No.	\$ 272.00
B2/13.0	<b>PLUMBING WORKS</b>		
B2/13.1	<b>Internal Water Pipeworks</b>		
	<u>UPVC pipes and fittings; B.S. 4514; jointing in accordance with Manufacturer's Instruction.</u>		
B2/13.1.1	<u>Pipe installation, fixed or concealed in rendered wall, concrete or duct including holding brackets, insulation, all as described.</u>		
B2/13.1.1.1	15mm Diameter pipe	m	\$ 8.00
B2/13.1.1.2	18mm Diameter pipe	m	\$ 9.00
B2/13.1.1.3	25mm Diameter pipe	m	\$ 13.00
B2/13.1.1.4	35mm Diameter pipe	m	\$ 15.00
B2/13.1.1.5	42mm Diameter pipe	m	\$ 16.00
B2/13.1.1.6	50mm Diameter pipe	m	\$ 27.00
B2/13.1.2	<u>Laying in the ground, including all necessary excavation average 300mm deep and hacking out concrete floor tile / slab where necessary</u>		
B2/13.1.2.1	32mm diameter UPVC B.S 4514 solvent welded joints	m	\$ 20.00
B2/13.1.2.2	50mm diameter UPVC B.S 4514 solvent welded joints	m	\$ 30.00
B2/13.1.3	<u>Laying in the ground, including all necessary excavation average 450mm deep and hacking out concrete floor tile / slab where necessary</u>		
B2/13.1.3.1	75mm diameter UPVC B.S 4514 solvent welded joints	m	\$ 35.00
B2/13.1.3.2	100mm diameter UPVC B.S 4514 with ring seal or solvent welded joints	m	\$ 40.00
B2/13.2	<u>Stainless steel pipe and fittings to B.S 4127 Grade 304 and 316; brass fittings to B.S. 864, joints and fittings shall be of fully welded joints with silver brazing using proprietary fittings and accessories all fixed in accordance with Manufacturer's Instruction.</u>		
	<u>Cold water pipe installation, fixed or concealed in rendered wall, concrete or duct including holding brackets, insulation, all as described. (Rate inclusive of all connection and fittings)</u>		
B2/13.2.1	15mm Diameter pipe	m	\$ 20.00
B2/13.2.2	20mm Diameter pipe	m	\$ 25.00
B2/13.2.3	25mm Diameter pipe	m	\$ 40.00
B2/13.2.4	32mm Diameter pipe	m	\$ 50.00
B2/13.2.5	40mm Diameter pipe	m	\$ 63.00
B2/13.2.6	50mm Diameter pipe	m	\$ 84.00
B2/13.2.7	80mm Diameter pipe	m	\$ 123.00
B2/13.2.8	100mm Diameter pipe	m	\$ 150.00
B2/13.2.9	125mm Diameter pipe	m	\$ 183.00
B2/13.3	<u>Allow for the complete internal water plumbing services comprising of copper pipes to BS 2871:1971 table X, copper fittings to BS 864 of all sizes as specified including water hammer arrester, fittings, supports, pipe sleeves, chasing, valve, etc and connect to sanitary fixtures, all fixed in accordance with Manufacturer's Instruction.</u>		
	<u>Hot water pipe installation, fixed or concealed in rendered wall, concrete or duct including holding brackets, insulation, all as described. (Rate inclusive of all connection and fittings)</u>		
B2/13.3.1	15mm Diameter pipe	m	\$ 19.00
B2/13.3.2	20mm Diameter pipe	m	\$ 24.00
B2/13.3.3	25mm Diameter pipe	m	\$ 36.00
B2/13.3.4	32mm Diameter pipe	m	\$ 46.00
B2/13.3.5	40mm Diameter pipe	m	\$ 63.00
B2/13.3.6	50mm Diameter pipe	m	\$ 84.00



Item No.	Description	Unit	Rate
B2/13.4	<u>Soil, Waste and Ventilation Pipes Installation</u>		
	<u>UPVC pipes and fittings; BS 4514 and BS 5255; jointing in accordance with the Manufacturer's Instructions.</u>		
B2/13.4.1	<u>Pipes concealed or fixed to wall, column, beam or soffit of slab (Rate inclusive of all connection and fittings);</u>		
B2/13.4.1.1	<u>Waste Pipe;</u>		
B2/13.4.1.1.1	32mm diameter waste pipe	m	\$ 10.00
B2/13.4.1.1.2	50mm diameter waste pipe	m	\$ 20.00
B2/13.4.1.1.3	75mm diameter waste pipe	m	\$ 25.00
B2/13.4.1.1.4	100mm diameter waste pipe	m	\$ 30.00
B2/13.4.1.1.5	150mm diameter waste pipe	m	\$ 45.00
B2/13.4.1.2	<u>Soil Pipe;</u>		
B2/13.4.1.2.1	32mm diameter waste pipe	m	\$ 10.00
B2/13.4.1.2.2	50mm diameter waste pipe	m	\$ 20.00
B2/13.4.1.2.3	75mm diameter waste pipe	m	\$ 25.00
B2/13.4.1.2.4	100mm diameter waste pipe	m	\$ 30.00
B2/13.4.1.2.5	150mm diameter waste pipe	m	\$ 45.00
B2/13.4.1.3	<u>Vent Pipe;</u>		
B2/13.4.1.3.1	32mm diameter waste pipe	m	\$ 10.00
B2/13.4.1.3.2	50mm diameter waste pipe	m	\$ 20.00
B2/13.4.1.3.3	75mm diameter waste pipe	m	\$ 25.00
B2/13.4.1.3.4	100mm diameter waste pipe	m	\$ 30.00
B2/13.4.1.3.5	150mm diameter waste pipe	m	\$ 45.00
B2/13.4.2	<u>Laying in the ground; including all necessary excavation, backfilling, disposal of surplus excavated material, concrete grade 15 bedding.</u>		
B2/13.4.2.1	50mm diameter UPVC pipe	m	\$ 24.00
B2/13.4.2.2	100mm diameter UPVC pipe	m	\$ 48.00
B2/13.4.2.3	150mm diameter UPVC pipe	m	\$ 72.00
B2/13.5	<u>External Water Services</u>		
	<u>MDPE pipes and fittings to PE 100 DN10 SDR 17 (Blue Colour) or PWD Water Department's approved type</u>		
B2/13.5.1	<u>Laying in the ground; including all necessary excavation, backfilling, disposal of surplus excavated material, concrete grade 15 bedding.</u>		
B2/13.5.1.1	125mm diameter MDPE pipe	m	\$ 38.00
B2/13.5.1.2	180mm diameter MDPE pipe	m	\$ 50.00
B2/13.5.2	<u>Laying in the ground; including all necessary excavation, backfilling, disposal of surplus excavated material, formwork; and all fittings required e.g. bends, tees, flexible and flanged joints, etc</u>		
B2/13.5.2.1	125mm diameter MDPE pipe including single 200mm dia UPVC pipe sleeves encased in 150mm thick mass concrete surround	m	\$ 40.00
B2/13.5.2.2	180mm diameter MDPE pipe including single 250mm dia UPVC pipe sleeves encased in 150mm thick mass concrete surround	m	\$ 55.00
B2/13.6	<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>		
	<u>Pipe cast / chased into concrete or brickwall or bracketed off walls or soffits with pipe clips</u>		
B2/13.6.1	20mm outer diameter pipes	m	\$ 15.00
B2/13.6.2	25mm outer diameter pipes	m	\$ 16.00
B2/13.6.1.3	65mm outer diameter pipes	m	\$ 25.00
B2/13.6.1.4	125mm outer diameter pipes	m	\$ 38.00



Item No.	Description	Unit	Rate
B2/13.7	<u>Approved class K9 ductile iron, spigot and socket pipe, fittings to BS EN545 complete with zinc plus bituminous coating and cement lining, approved flexible rubber ring jointed, pipes and fittings, including cutting where required for, providing temporary stops, softboard at joints, all flexible connection and mechanical joint to pipe all in accordance with Manufacturer's instruction and specification.</u>		
B2/13.7.1	<u>Laying in the ground; including all necessary excavation, backfilling, disposal of surplus excavated material, concrete grade 15 bedding; and all fittings required e.g. bends, tees, flexible and flanged joints, etc.</u>		
B2/13.7.1.1	75mm diameter Ductile Iron pipe	m	\$ 60.00
B2/13.7.1.2	100mm diameter Ductile Iron pipe	m	\$ 80.00
B2/13.7.1.3	150mm diameter Ductile Iron pipe	m	\$ 120.00
B2/13.7.1.4	200mm diameter Ductile Iron pipe	m	\$ 160.00
B2/13.7.2	<u>Laying in the ground; including all necessary excavation, backfilling, disposal of surplus excavated material, single 250mm dia UPVC pipe sleeves encased in 150mm thick mass concrete surround plus formwork; and all fittings required e.g. bends, tees, flexible and flanged joints, etc.</u>		
B2/13.7.2.1	75mm diameter Ductile Iron pipe	m	\$ 120.00
B2/13.7.2.2	100mm diameter Ductile Iron pipe	m	\$ 155.00
B2/13.7.2.3	150mm diameter Ductile Iron pipe	m	\$ 235.00
B2/13.7.2.4	200mm diameter Ductile Iron pipe	m	\$ 310.00
B2/13.8	<u>Precast concrete (20N/mm<sup>2</sup> at 28 days); finished fair on all faces, fixed in position including excavation, backfilling, disposal of surplus excavated material, bedded and pointed in cement and sand (1:3); inclusive of reflective signage to the approval of the PWD Water Department and as per Superintending Officer instruction and specification.</u> 230mm x 1200mm x 80mm Thick precast concrete marker posts encased in 400mm x 400mm x 400mm mass concrete footing	No.	\$ 50.00
B2/13.9	<u>150mm x 150mm x 300mm Deep grade 25 concrete surface box to pillar type fire hydrant with 2200mm x 1200mm x 600mm deep anchor block under ground with BRC A7 all as per Superintending Officer instruction and specification including supply and driving bakau piles, all excavation, formwork, backfilling and disposal.</u> Fire hydrant chamber	No.	\$ 550.00
B2/13.10	<u>Approved wash out with concrete chamber and base including all piping, fittings and accessories, all excavation, disposal, formwork, connection, etc with overall size, 760mm x 610mm x 900mm deep (internal) constructed all as per industrial standard Civil and Structure detail drawing.</u> Washout chamber	No.	\$ 374.00
B2/13.11	<u>Overall average size 1500mm x 1500mm x 1050mm deep (internal) constructed all as per industrial standard Civil and Structure detail drawing including all excavation, concrete, reinforcement, formwork, backfilling and disposal.</u> Sluice valve chamber	No.	\$ 800.00
B2/13.12	<u>Overall average size 300mm x 430mm x 300mm deep (internal) approval heavy duty plastic valve pit all as per Superintending Officer instruction and specification including all excavation, concrete, reinforcement, formwork, 75mm thick gravel base, 75mm thick loose hard core, backfilling and disposal.</u> Garden tap chamber	No.	\$ 50.00



Item No.	Description	Unit	Rate
B2/13.13	<u>Post pillar type fire hydrant; screw-down pattern; 64mm diameter female screw thread complete with 64mm diameter instantaneous adaptor to BS 750; painted in red colour; 100mm diameter Ductile Iron Double Flange pipe; double flange 90° duckfoot bend; 150mm x 150mm square ductile iron cover; 150mm x 150mm hinge type cast iron surface box encased in grade 25 concrete; 100mm diameter Ductile Iron flange sluice valve; 100mm diameter Ductile Iron Double Flange pipe sluice valve; 100mm diameter Ductile Iron short pieces; double flange 45° elbow; 100mm diameter Ductile Iron flange adaptor; grade 25 concrete with BRC A7 mesh reinforcement; inclusive of all fittings and builder's works in connection, all as per industrial standard Civil and Structure detail drawing.</u> Fire hydrant	No.	\$ 800.00
B2/13.14	<u>Garden tap quick coupling valve complete with valve keys operated valve, all necessary extension stainless pipes (Grade 316L), fittings, gate valves, excavation, backfilling, concrete base chamber, etc. Exterior stand pipe and as per Superintending Officer instruction and specification.</u>		
B2/13.14.1	20mm Diameter quick coupling valve complete with valve keys operated valve	No.	\$ 150.00
B2/13.14.2	32mm Diameter quick coupling valve complete with valve keys operated valve	No.	\$ 200.00
B2/13.15	Approved service surface box with 75mm thick concrete chamber and base including heavy duty standard cast iron cover all fittings, accessories, and all excavation, disposal, formwork, connection; overall size 200mm x 200mm x 175mm depth, constructed all as per Industrial standard Civil and Structure detail drawing.	No.	\$ 32.00
B2/13.16	<u>To supply and install approved heavy duty cast iron service surface box inclusive of all excavation, disposal, complete with 100mm thick Reinforcement concrete slab; constructed all as per industrial standard Civil and Structure detail drawing.</u>		
B2/13.16.1	Heavy duty cast iron service surface box; overall size 152mm x 127mm x 76mm depth	No.	\$ 73.00
B2/13.16.2	Heavy duty cast iron service surface box; overall size 150mm x 150mm x 76mm depth	No.	\$ 87.00
B2/13.17	<b>Water Tank</b>		
B2/13.17.1	<u>Supply and install approved stainless steel (Grade 316) water tank, complete with and including all necessary pipe and fittings, floatless relay, float valve, cat ladder, access door, accessories, all strictly in accordance with the Manufacturer's Instructions and recommendations and all in accordance with Superintending Officer approval.</u>		
B2/13.17.1.1	Domestic water tank; overall size 1420mm diameter x 2360mm high (3,200 Liters)	No.	\$ 1,045.00
B2/13.17.1.2	Domestic water tank; overall size 1420mm diameter x 3174mm high (4,500 Liters)	No.	\$ 1,456.00
B2/13.17.2	<u>Supply and install approved proprietary stainless steel (Grade 316) rectangular water tank, complete and including reinforced concrete structure and plinth, platform c/w ladder, precast concrete piles, approved MS water tank skid base framing with approved paint finished, all necessary excavation, hardcore filling, 350mm wide perimeter drain and hot dip galvanised grating; all strictly in accordance with the Manufacturer's Instructions and recommendations and all in accordance with Superintending Officer approval.</u>		
B2/13.17.2.1	Rectangular water tank; overall size 1000mm x 1000mm x 1200mm high	No.	\$ 460.00
B2/13.17.2.2	Rectangular water tank; 1,600 Litres		\$ 750.00
B2/13.17.2.3	Rectangular water tank; 2,000 Litres		\$ 850.00
B2/13.17.2.4	Rectangular water tank; overall size 5000mm x 5000mm x 2500mm high (50,000 liter)	No.	\$ 22,960.00
B2/13.17.2.5	Rectangular water tank; overall size 6000mm x 6000mm x 2500mm high (72,000 liter)	No.	\$ 34,500.00
B2/13.17.3	<u>Supply and install approved galvanised steel skid base to receive water tank, set on and bolted to concrete stand, all strictly in accordance with the Manufacturer's Instructions and recommendations and all in accordance with Superintending Officer approval.</u>		
B2/13.17.3.1	Steel skid base to support 1420mm diameter x 2360mm high (3,200 Liters) domestic water tank	No.	\$ 133.00
B2/13.17.3.2	Steel skid base to support 1420mm diameter x 3174mm high (4,500 Liters) domestic water tank	No.	\$ 188.00



Item No.	Description	Unit	Rate
B2/13.17.4	<u>Remove with care existing water tank including steel skid base as indicated on the site; remove any debris off site and making good all works disturbed to the satisfaction of the Superintending Officer. (Rate include disposal off site &amp; all charges associated)</u>		
B2/13.17.4.1	Domestic water tank; (1,000 Liters) including steel skid base	No.	\$ 150.00
B2/13.17.4.2	Domestic water tank; (1,600 Liters) including steel skid base	No.	\$ 150.00
B2/13.17.4.3	Domestic water tank; (2,300 Liters) including steel skid base	No.	\$ 150.00
B2/13.17.4.4	Domestic water tank; overall size 1420mm diameter x 2360mm high (3,200 Liters) including steel skid base	No.	\$ 150.00
B2/13.17.4.5	Domestic water tank; overall size 1420mm diameter x 3174mm high (4,500 Liters) including steel skid base	No.	\$ 150.00
B2/13.17.4.6	Rectangular water tank; overall size 5000mm x 5000mm x 2500mm high (50,000 liter)	No.	\$ 3,500.00
B2/13.17.4.7	Rectangular water tank; overall size 6000mm x 6000mm x 2500mm high (72,000 liter)	No.	\$ 4,500.00
B2/13.18	<b><u>Water Tank Fittings</u></b>		
	<u>Allow for labour and materials to fix damaged / missing fittings including accessories; all strictly in accordance with the Superintending Officer approval and stastification.</u>		
B2/13.18.1	<u>Brass ball float valve c/w polythene ball</u>		
B2/13.18.1.1	22mm	No.	\$ 23.00
B2/13.18.1.2	25mm ( 1" )	No.	\$ 27.00
B2/13.18.1.3	28mm	No.	\$ 30.00
B2/13.18.1.4	32mm ( 1¼" )	No.	\$ 35.00
B2/13.18.1.5	50mm ( 2" )	No.	\$ 36.00
B2/13.18.1.6	54mm	No.	\$ 42.00
B2/13.18.1.7	75mm ( 3" )	No.	\$ 50.00
B2/13.18.1.8	100mm ( 4" )	No.	\$ 100.00
B2/13.18.2	<u>Brass ball float valve c/w copper ball</u>		
B2/13.18.2.1.	75mm ( 3" )	No.	\$ 75.00
B2/13.18.2.1.	78mm	No.	\$ 80.00
B2/13.18.2.1.	100mm ( 4" )	No.	\$ 130.00
B2/13.18.3	<u>Allow for labour and materials to fix damaged / missing fittings including accessories; all strictly in accordance with the Superintending Officer approval and stastification.</u> Float arm and float	No.	\$ 14.00
B2/13.19	<b><u>Pipeworks</u></b>		
B2/13.19.1	<u>Allow labour and material to remove existing damaged pipe, remove all debris off-site and make good all works disturbed to the satisfaction of the Superintending Officer.</u>		
B2/13.19.1.1	<u>UPVC pipes;</u>		
B2/13.19.1.1a	15mm diameter pipe	m	\$ 18.00
B2/13.19.1.1b	20mm diameter pipe	m	\$ 18.00
B2/13.19.1.1c	32mm diameter pipe	m	\$ 19.00
B2/13.19.1.1d	50mm diameter pipe	m	\$ 19.00
B2/13.19.1.2	<u>Stainless steel pipes;</u>		
B2/13.19.1.2a	15mm diameter pipe	m	\$ 18.00
B2/13.19.1.2b	20mm diameter pipe	m	\$ 18.00
B2/13.19.1.2c	35mm diameter pipe	m	\$ 19.00
B2/13.19.1.2d	50mm diameter pipe	m	\$ 19.00
B2/13.19.1.2e	80mm diameter pipe	m	\$ 20.00
B2/13.19.1.2f	100mm diameter pipe	m	\$ 20.00
B2/13.19.1.2g	125mm diameter pipe	m	\$ 20.00
B2/13.19.1.3	<u>Copper pipes;</u>		
B2/13.19.1.3a	15mm diameter pipe	m	\$ 18.00
B2/13.19.1.3b	20mm diameter pipe	m	\$ 18.00



Item No.	Description	Unit	Rate
B2/13.19.2	<u>Allow for labour and materials to fix damaged pipe, jointings and fittings; all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.19.2.1	<u>UPVC pipes;</u>		
B2/13.19.2.1a	15mm diameter pipe	m	\$ 13.00
B2/13.19.2.1b	20mm diameter pipe	m	\$ 18.00
B2/13.19.2.1c	32mm diameter pipe	m	\$ 20.00
B2/13.19.2.1d	50mm diameter pipe	m	\$ 33.00
B2/13.19.2.2	<u>Stainless steel pipes;</u>		
B2/13.19.2.2a	15mm diameter pipe	m	\$ 26.00
B2/13.19.2.2b	20mm diameter pipe	m	\$ 48.00
B2/13.19.2.2c	35mm diameter pipe	m	\$ 59.00
B2/13.19.2.2d	50mm diameter pipe	m	\$ 96.00
B2/13.19.2.2e	80mm diameter pipe	m	\$ 148.00
B2/13.19.2.2f	100mm diameter pipe	m	\$ 182.00
B2/13.19.2.2g	125mm diameter pipe	m	\$ 225.00
B2/13.19.2.3	<u>Copper pipes;</u>		
B2/13.19.2.3a	15mm diameter pipe	m	\$ 28.00
B2/13.19.2.3b	20mm diameter pipe	m	\$ 33.00
B2/13.19.3	<u>Allow for labour and materials to fix damaged waste pipe jointings and fittings; all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.19.3.1	32mm diameter pipe soil / waste / ventilation pipe	m	\$ 15.00
B2/13.19.3.2	50mm diameter pipe soil / waste / ventilation pipe	m	\$ 26.00
B2/13.19.3.3	100mm diameter pipe soil / waste / ventilation pipe	m	\$ 39.00
B2/13.19.3.4	150mm diameter pipe soil / waste / ventilation pipe	m	\$ 53.00
B2/13.19.4	<u>Allow for labour and materials to fix damaged MDPE pipe jointings and fittings; all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.19.4.1	125mm diameter pipe	m	\$ 55.00
B2/13.19.4.2	180mm diameter pipe	m	\$ 69.00
B2/13.19.5	<u>Allow for labour and materials to fix damaged Ductile Iron pipe jointings and fittings; all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.19.5.1	75mm diameter pipe	m	\$ 86.00
B2/13.19.5.2	100mm diameter pipe	m	\$ 108.00
B2/13.19.5.3	150mm diameter pipe	m	\$ 152.00
B2/13.20	<u>Pipeworks Connection / Fittings</u>		
B2/13.20.1	<u>Allow for labour and materials to fix damaged / missing fittings including accessories; all strictly in accordance with the Superintending Officer approval and stastification.</u>		
B2/13.20.1.1	<u>Brass gate valve / chrome stop valve;</u>		
B2/13.20.1.1a	15mm diameter	No.	\$ 30.00
B2/13.20.1.1b	22mm diameter	No.	\$ 45.00
B2/13.20.1.1c	28mm diameter	No.	\$ 55.00
B2/13.20.1.1d	35mm diameter	No.	\$ 80.00
B2/13.20.1.1e	54mm diameter	No.	\$ 130.00
B2/13.20.1.2	<u>Extra over brass check valve;</u>		
B2/13.20.1.2a	22mm diameter	No.	\$ 50.00
B2/13.20.1.2b	28mm diameter	No.	\$ 60.00
B2/13.20.1.2c	40mm diameter	No.	\$ 85.00
B2/13.20.1.2d	54mm diameter	No.	\$ 150.00
B2/13.20.1.3	<u>Sluice valve;</u>		
B2/13.20.1.3a	75mm diameter	No.	\$ 350.00
B2/13.20.1.3b	100mm diameter	No.	\$ 400.00
B2/13.20.1.3c	150mm diameter	No.	\$ 650.00



Item No.	Description	Unit	Rate
B2/13.20.1.4	<u>Non-return valve;</u>		
B2/13.20.1.4a	75mm diameter	No.	\$ 380.00
B2/13.20.1.4b	100mm diameter	No.	\$ 450.00
B2/13.20.1.4c	150mm diameter	No.	\$ 700.00
B2/13.20.2	<u>Allow for labour and materials to fix UPVC pipe jointings and fittings; B.S. 4576 Part 1, all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.20.2.1	<u>Tee;</u>		
B2/13.20.2.1a	for 15mm diameter UPVC pipe	No.	\$ 4.00
B2/13.20.2.1b	for 18mm diameter UPVC pipe	No.	\$ 4.00
B2/13.20.2.1c	for 28mm diameter UPVC pipe	No.	\$ 5.00
B2/13.20.2.1d	for 50mm diameter UPVC pipe	No.	\$ 6.00
B2/13.20.2.2	<u>Elbow;</u>		
B2/13.20.2.2a	for 15mm diameter UPVC pipe	No.	\$ 4.00
B2/13.20.2.2b	for 18mm diameter UPVC pipe	No.	\$ 4.00
B2/13.20.2.2c	for 28mm diameter UPVC pipe	No.	\$ 5.00
B2/13.20.2.2d	for 50mm diameter UPVC pipe	No.	\$ 5.00
B2/13.20.2.3	<u>Socket;</u>		
B2/13.20.2.3a	for 15mm diameter UPVC pipe	No.	\$ 4.00
B2/13.20.2.3b	for 18mm diameter UPVC pipe	No.	\$ 4.00
B2/13.20.2.3c	for 28mm diameter UPVC pipe	No.	\$ 5.00
B2/13.20.2.3d	for 50mm diameter UPVC pipe	No.	\$ 5.00
B2/13.20.2.4	<u>Spigot</u>		
B2/13.20.2.4a	for 15mm diameter UPVC pipe	No.	\$ 3.00
B2/13.20.2.4b	for 18mm diameter UPVC pipe	No.	\$ 5.00
B2/13.20.2.4c	for 28mm diameter UPVC pipe	No.	\$ 6.00
B2/13.20.2.4d	for 50mm diameter UPVC pipe	No.	\$ 15.00
B2/13.20.2.5	<u>Ball valve;</u>		
B2/13.20.2.5a	for 15mm diameter UPVC pipe	No.	\$ 6.00
B2/13.20.2.5b	for 18mm diameter UPVC pipe	No.	\$ 8.00
B2/13.20.2.5c	for 28mm diameter UPVC pipe	No.	\$ 9.00
B2/13.20.2.5d	for 50mm diameter UPVC pipe	No.	\$ 20.00
B2/13.20.3	<u>Allow for labour and materials to fix brasswork to comply with B.S. 1010, jointings and fittings; all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.20.3.1	<u>Tee;</u>		
B2/13.20.3.1a	for 15mm diameter stainless steel / copper pipe	No.	\$ 7.00
B2/13.20.3.1b	for 18mm diameter stainless steel / copper pipe	No.	\$ 9.00
B2/13.20.3.1c	for 28mm diameter stainless steel / copper pipe	No.	\$ 11.00
B2/13.20.3.1d	for 50mm diameter stainless steel / copper pipe	No.	\$ 27.00
B2/13.20.3.2	<u>Elbow;</u>		
B2/13.20.3.2a	for 15mm diameter stainless steel / copper pipe	No.	\$ 7.00
B2/13.20.3.2b	for 18mm diameter stainless steel / copper pipe	No.	\$ 9.00
B2/13.20.3.2c	for 28mm diameter stainless steel / copper pipe	No.	\$ 11.00
B2/13.20.3.2d	for 50mm diameter stainless steel / copper pipe	No.	\$ 25.00
B2/13.20.3.3	<u>Socket;</u>		
B2/13.20.3.3a	for 15mm diameter stainless steel / copper pipe	No.	\$ 7.00
B2/13.20.3.3b	for 18mm diameter stainless steel / copper pipe	No.	\$ 8.00
B2/13.20.3.3c	for 28mm diameter stainless steel / copper pipe	No.	\$ 13.00
B2/13.20.3.3d	for 50mm diameter stainless steel / copper pipe	No.	\$ 27.00



Item No.	Description	Unit	Rate
B2/13.20.3.4	<u>Coupling:</u>		
B2/13.20.3.4a	for 15mm diameter stainless steel / copper pipe	No.	\$ 6.00
B2/13.20.3.4b	for 18mm diameter stainless steel / copper pipe	No.	\$ 8.00
B2/13.20.3.4c	for 28mm diameter stainless steel / copper pipe	No.	\$ 12.00
B2/13.20.3.4d	for 50mm diameter stainless steel / copper pipe	No.	\$ 18.00
B2/13.20.3.5	<u>Ball valve:</u>		
B2/13.20.3.5a	for 15mm diameter stainless steel / copper pipe	No.	\$ 13.00
B2/13.20.3.5b	for 18mm diameter stainless steel / copper pipe	No.	\$ 15.00
B2/13.20.3.5c	for 28mm diameter stainless steel / copper pipe	No.	\$ 14.00
B2/13.20.3.5d	for 50mm diameter stainless steel / copper pipe	No.	\$ 18.00
B2/13.20.3.6	<u>Stopcock:</u>		
B2/13.20.3.6a	for 28mm diameter stainless steel / copper pipe	No.	\$ 13.00
B2/13.20.3.6b	Water hammer arrestor	No.	\$ 69.00
B2/13.20.4	<u>Allow for labour and materials to fix UPVC pipes and fittings; B.S. 4660 Part 1; jointing in accordance with the Manufacturer's Instructions</u>		
B2/13.20.4.1	<u>Tee:</u>		
B2/13.20.4.1a	for 50mm diameter soil / waste / ventilation pipe	No.	\$ 15.00
B2/13.20.4.1b	for 75mm diameter soil / waste / ventilation pipe	No.	\$ 17.00
B2/13.20.4.1c	for 100mm diameter soil / waste / ventilation pipe	No.	\$ 20.00
B2/13.20.4.1d	for 150mm diameter soil / waste / ventilation pipe	No.	\$ 25.00
B2/13.20.4.2	<u>Elbow:</u>		
B2/13.20.4.2a	for 50mm diameter soil / waste / ventilation pipe	No.	\$ 15.00
B2/13.20.4.2b	for 75mm diameter soil / waste / ventilation pipe	No.	\$ 17.00
B2/13.20.4.2c	for 100mm diameter soil / waste / ventilation pipe	No.	\$ 20.00
B2/13.20.4.2d	for 150mm diameter soil / waste / ventilation pipe	No.	\$ 25.00
B2/13.20.4.3	<u>Socket:</u>		
B2/13.20.4.3a	for 50mm diameter soil / waste / ventilation pipe	No.	\$ 15.00
B2/13.20.4.3b	for 75mm diameter soil / waste / ventilation pipe	No.	\$ 17.00
B2/13.20.4.3c	for 100mm diameter soil / waste / ventilation pipe	No.	\$ 20.00
B2/13.20.4.3d	for 150mm diameter soil / waste / ventilation pipe	No.	\$ 25.00
B2/13.20.4.4	<u>Spigot:</u>		
B2/13.20.4.4a	for 50mm diameter soil / waste / ventilation pipe	No.	\$ 15.00
B2/13.20.4.4b	for 75mm diameter soil / waste / ventilation pipe	No.	\$ 17.00
B2/13.20.4.4c	for 100mm diameter soil / waste / ventilation pipe	No.	\$ 20.00
B2/13.20.4.4d	for 150mm diameter soil / waste / ventilation pipe	No.	\$ 25.00
B2/13.20.4.5	<u>Tubular 'P' / 'S' trap</u>		
B2/13.20.4.5a	for 32mm diameter pipe soil pipe	No.	\$ 40.00
B2/13.20.4.5b	for 38mm diameter pipe soil pipe	No.	\$ 45.00
B2/13.20.4.6	<u>Bottle 'P' / 'S' trap</u>		
B2/13.20.4.6a	for 32mm diameter pipe soil pipe	No.	\$ 40.00
B2/13.20.4.6b	for 38mm diameter pipe soil pipe	No.	\$ 45.00
B2/13.20.5	<u>Allow for labour and materials to fix fitting to P.E. 100 DN10 SDR 17 (Blue Colour) or approved PWD Water Department's jointings and fittings; all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.20.5.1	<u>Tee:</u>		
B2/13.20.5.1a	for 63mm diameter MDPE pipe	No.	\$ 28.00
B2/13.20.5.1b	for 125mm diameter MDPE pipe	No.	\$ 80.00
B2/13.20.5.1c	for 150mm diameter MDPE pipe	No.	\$ 120.00



Item No.	Description	Unit	Rate
B2/13.20.5.2	<u>Bends:</u>		
B2/13.20.5.2a	for 75mm diameter MDPE pipe	No.	\$ 60.00
B2/13.20.5.2b	for 100mm diameter MDPE pipe	No.	\$ 80.00
B2/13.20.5.2c	for 150mm diameter MDPE pipe	No.	\$ 120.00
B2/13.20.5.3	<u>Elbow:</u>		
B2/13.20.5.3a	for 75mm diameter MDPE pipe	No.	\$ 60.00
B2/13.20.5.3b	for 100mm diameter MDPE pipe	No.	\$ 80.00
B2/13.20.5.3c	for 150mm diameter MDPE pipe	No.	\$ 120.00
B2/13.20.5.4	<u>Ball valve:</u>		
B2/13.20.5.4a	for 75mm diameter MDPE pipe	No.	\$ 350.00
B2/13.20.5.4b	for 100mm diameter MDPE pipe	No.	\$ 450.00
B2/13.20.5.4c	for 150mm diameter MDPE pipe	No.	\$ 700.00
B2/13.20.6	<u>Allow for labour and materials to fix Ductile Iron pipe to BS EN 969 jointings and fittings; all strictly in accordance with the Superintending Officer instruction and specification.</u>		
B2/13.20.6.1	<u>Tee:</u>		
B2/13.20.6.1a	for 75mm diameter Ductile Iron pipe	No.	\$ 90.00
B2/13.20.6.1b	for 100mm diameter Ductile Iron pipe	No.	\$ 130.00
B2/13.20.6.1c	for 150mm diameter Ductile Iron pipe	No.	\$ 180.00
B2/13.20.6.2	<u>Bends:</u>		
B2/13.20.6.2a	for 75mm diameter Ductile Iron pipe	No.	\$ 80.00
B2/13.20.6.2b	for 100mm diameter Ductile Iron pipe	No.	\$ 120.00
B2/13.20.6.2c	for 150mm diameter Ductile Iron pipe	No.	\$ 160.00
B2/13.20.6.3	<u>Elbow:</u>		
B2/13.20.6.3a	for 75mm diameter Ductile Iron pipe	No.	\$ 80.00
B2/13.20.6.3b	for 100mm diameter Ductile Iron pipe	No.	\$ 120.00
B2/13.20.6.3c	for 150mm diameter Ductile Iron pipe	No.	\$ 160.00
B2/13.21	<u>Supply &amp; install pressure reducing valve of sizes:</u>		
B2/13.21.1	25mm dia	No.	\$ 200.00
B2/13.21.2	50mm dia	No.	\$ 450.00
B2/13.22	Supply & install 15mm dia automatic air vent (AAV)	No.	\$ 180.00
B2/13.23	Supply & install 100mm dia pressure gauge (0 to 100 psi);	No.	\$ 250.00
B2/13.24	<u>Supply and Install new Stainless Steel Collar Clamp:</u>		
B2/13.24.1	50mm dia	No.	\$ 200.00
B2/13.24.2	75mm dia	No.	\$ 250.00
B2/13.24.3	100mm dia	No.	\$ 350.00
B2/13.24.4	150mm dia	No.	\$ 450.00
B2/13.24.5	200mm dia	No.	\$ 500.00
B2/13.25	<u>Supply and Install new Stainless Steel Split Collar Clamp:</u>		
B2/13.25.1	50mm dia	No.	\$ 200.00
B2/13.25.2	75mm dia	No.	\$ 250.00
B2/13.25.3	100mm dia	No.	\$ 350.00
B2/13.25.4	150mm dia	No.	\$ 450.00
B2/13.25.5	200mm dia	No.	\$ 500.00
B2/13.26	<u>Supply and install stainless steel tapping saddle of sizes:</u>		
B2/13.26.1	100mm x 25mm dia	No.	\$ 150.00
B2/13.26.2	100mm x 50mm dia	No.	\$ 200.00
B2/13.26.3	150mm x 25mm dia	No.	\$ 250.00
B2/13.26.4	150mm x 50mm dia	No.	\$ 300.00
B2/13.26.5	200mm x 25mm dia	No.	\$ 350.00
B2/13.26.6	200mm x 50mm dia	No.	\$ 400.00



Item No.	Description	Unit	Rate
B2/13.27	Denso tape 100mm x 10 meter length roll	No.	\$ 50.00
B2/13.28	Mastic Paste sealant	Kg	\$ 45.00
B2/13.29	Mosquito proof heavy duty pvc vent cowl complete with puddle flanges, flashing and weather apron, etc to suit 100mm diameter vent pipe; all strictly in accordance with the Superintending Officer approval and stastification.	No.	\$ 65.00
B2/13.30	<b><u>Water Services</u></b>		
B2/13.30.1	<u>Search for; excavate and locate existing water main; provide and insert junction for connecting pipes; including all short lengths; concrete support; breaking concrete as required and making good to all disturbed area.</u>		
B2/13.30.1.1	Connecting existing to 100mm diameter pipe (by shutting down the system)	No.	\$ 1,500.00
B2/13.30.1.2	Connecting existing to 150mm diameter pipe (by shutting down the system)	No.	\$ 1,800.00
B2/13.30.1.3	Connecting existing to 100mm diameter pipe (by hot tapping the system)	No.	\$ 3,000.00
B2/13.30.1.4	Connecting existing to 150mm diameter pipe (by hot tapping the system)	No.	\$ 3,200.00
B2/13.30.2	Colour coding and labelling all pipeworks throughout the installation with one each primer, one primer, one undercoat and two gloss coat of paint, all as described	No.	\$ 500.00
B2/13.30.3	Allow for testing and sterilisation of the whole plumbing and sanitary system to satisfaction of the Superintending Officer.	No.	\$ 2,500.00
B2/13.30.4	Supply and lay High Resistance Detectable (HRD) pipe Marker Mesh	m	\$ 3.00
B2/13.30.5	<u>Extra over for all necessary fittings, sockets, connectors, reducaers, plugs, elbow, tees, union, Nipple, brush and other similar pipe fittings;</u>		
B2/13.30.5.1	<u>Copper / Stainless steel compression joints</u>		
B2/13.30.5.1a	15mm diameter	No.	\$ 20.00
B2/13.30.5.1b	22mm diameter	No.	\$ 24.00
B2/13.30.5.1c	28mm diameter	No.	\$ 30.00
B2/13.30.5.1d	≥ 50mm diameter pipes	No.	\$ 65.00
B2/13.30.5.2	<u>Brass compression joints</u>		
B2/13.30.5.2a	15mm diameter	No.	\$ 14.00
B2/13.30.5.2b	22mm diameter	No.	\$ 16.00
B2/13.30.5.2c	28mm diameter	No.	\$ 20.00
B2/13.30.5.2d	≥ 50mm diameter pipes	No.	\$ 55.00
B2/13.30.5.3	<u>UPVC compression joints</u>		
B2/13.30.5.3a	15mm diameter	No.	\$ 10.00
B2/13.30.5.3b	22mm diameter	No.	\$ 12.00
B2/13.30.5.3c	28mm diameter	No.	\$ 15.00
B2/13.30.5.3d	≥ 50mm diameter pipes	No.	\$ 45.00
B2/14.0	<b><u>GLAZING</u></b>		
B2/14.1	<u>Remove existing, supply and install new glazing complete with fittings / accessories and all necessary works to existing frame;</u>		
B2/14.1.1	<u>Clear sheet glass to B.S 952</u>		
B2/14.1.1.1	6mm thick Glaze to timber with timber breads	m2	\$ 45.00
B2/14.1.1.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 39.00
B2/14.1.2	<u>Light tinted sheet glass to B.S 952</u>		
B2/14.1.2.1	6mm thick Glaze to timber with timber breads	m2	\$ 47.00
B2/14.1.2.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 41.00
B2/14.1.3	<u>Opaque sheet glass to B.S 952</u>		
B2/14.1.3.1	6mm thick Glaze to timber with timber breads	m2	\$ 49.00
B2/14.1.3.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 43.00



Item No.	Description	Unit	Rate
B2/14.1.4	<u>Reinforced sheet glass to B.S 952</u>		
B2/14.1.4.1	6mm thick Glaze to timber with timber breads	m2	\$ 55.00
B2/14.1.4.2	6mm thick Glaze to metal with neoprene gaskets	m2	\$ 49.00
B2/14.2	<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>		
B2/14.2.1	6mm thick Clear glass	m2	\$ 167.00
B2/14.2.2	6mm thick Tinted glass	m2	\$ 170.00
B2/14.2.3	6mm thick Obscured glass	m2	\$ 170.00
B2/14.3	<u>Remove existing and replace with new ± 6mm thick float glass to 150mm wide louvre window frames, to match existing using</u>		
B2/14.3.1	Clear / Obscured glass	No.	\$ 3.00
B2/14.3.2	Tinted glass	No.	\$ 3.50
B2/14.4	<u>Supply and install approved heavy duty film attached to glass surfaces, all strictly in accordance with the Manufacturer's Specification and Instructions.</u>		
B2/14.4.1	Frosted sticker	m2	\$ 1.80
B2/14.4.2	"Huper Optik" solar control film	m2	\$ 6.00
B2/14.4.3	"3M" clear window insulation film	m2	\$ 5.00
B2/14.5	<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>		
B2/14.5.1	Clear / Obscured glass	No.	\$ 25.00
B2/14.5.2	Tinted glass	No.	\$ 33.00
B2/14.5.3	Reflective glass	No.	\$ 56.00
B2/15.0	<b><u>PAINTING WORKS</u></b>		
B2/15.1	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, milliscales 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
B2/15.2	Apply paint to concrete, cement board, gypsum, wood, metal, aluminium surfaces and the like;  (State brand: .....)		
B2/15.2.1	One coat Primer exterior / Plastered	m2	\$ 3.00
B2/15.2.2	One coat finishing for exterior / Plastered	m2	\$ 3.00
B2/15.2.3	One coat weathersheild finishing for exterior / Plastered	m2	\$ 3.50
B2/15.2.4	One coat undercoat for wood & metal	m2	\$ 3.00
B2/15.2.5	One coat finishing for wood & metal	m2	\$ 3.00
B2/15.2.6	One coat Primer for interior / gypsum / plastered	m2	\$ 3.00
B2/15.2.7	One coat low odour finishing for interior / gypsum / plastered	m2	\$ 3.50
B2/15.2.8	One coat finishing for interior / gypsum / plastered	m2	\$ 3.00
B2/15.2.9	One coat finishing for roof	m2	\$ 3.50
B2/15.2.10	Two coats thermoplastic road paint to BS3262 (100mm wide lines)	m	\$ 2.00
B2/15.2.11	Two coats thermoplastic road paint to BS3262 (200mm-300mm girth black & white stripes on concrete curb)	m	\$ 3.00
B2/15.2.12	Two coats thermoplastic road paint to BS3262 (500mm-850mm wide x 4000mm arrow head and tail, straight, turn etc.)	No.	\$ 40.00



Item No.	Description	Unit	Rate
B2/16.0	<b>WATERPROOFING</b>  Notes:  i) TEN (10) YEARS GUARANTEE ON WATERPROOFING SYSTEM WORKS.  ii) 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.  iii) All waterproofing work shall be carried out by MOD registered waterproofing contractor with an KPBO2 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.		
B2/16.1	<b>Waterproofing To Metal Surfaces</b>  (State brand: _____)		
B2/16.1.1	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
B2/16.1.2	To apply one coat of metal primer to cleaned corroded surface all in accordance with the manufacturer's instructions and specifications.	m2	\$ 8.00
B2/16.1.3	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
B2/16.2	<b>Waterproofing (Tanking System) For Toilets, Bathrooms, kitchens, verandahs and the like</b>  (State brand: _____)		
B2/16.2.1	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
B2/16.2.2	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
B2/16.2.3	To lay up to 25mm thick cement screed (1:3 mix) over the waterproofing membrane to falls .	m2	\$ 9.00
B2/16.2.4	Flex-lac PUW waterborne 100% aliphatic clear waterproofing or approved equivalent. (State brand: _____)	m2	\$ 32.00
B2/16.3	<b>Flood Infusion Waterproofing Treatment for Toilets, Bathrooms, Kitchens, Verandahs and the likes</b>  (State brand: _____)		
B2/16.3.1	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



Item No.	Description	Unit	Rate
<b>B2/16.4</b>	<b><u>Waterproofing to Gutter / Flat Roof And The Like</u></b>		
<b>B2/16.4.1</b>	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
<b>B2/16.4.2</b>	To prime bare concrete surface with one coat of elastomeric acrylic waterproofing polymers primer.	m2	\$ 14.00
<b>B2/16.4.3</b>	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
<b>B2/16.4.4</b>	<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>		
<b>B2/16.4.4.1</b>	flat Roof	m2	\$ 33.00
<b>B2/16.4.4.2</b>	flat roof, side and bottom of gutter	m2	\$ 40.00
<b>B2/16.4.4.3</b>	skirting not exceeding 200mm high	m2	\$ 8.00
<b>B2/16.4.5</b>	Flex-lac PUW waterborne 100% aliphatic clear waterproofing or approved equivalent. (State brand: _____)	m2	\$ 32.00
<b>B2/16.4.6</b>	<u>To lay "TORCH ON" type waterproofing membrane all in accordance with the manufacturer's instructions and specification</u>		
<b>B2/16.4.6.1</b>	flat roof, side and bottom of gutter	m2	\$ 40.00
<b>B2/16.4.6.2</b>	skirting not exceeding 200mm high	m2	\$ 9.00
<b>B2/17.0</b>	<b><u>FENCING WORK</u></b>		
	<u>Remove existing, supply, fix and install the following:</u>		
<b>B2/17.1</b>	SWG 8 PVC coated fencing mesh including 3 nos straining wire, clips and other accessories	m2	\$ 14.00
<b>B2/17.2</b>	SWG 12 galvanised fencing mesh including 3 nos straining wore, clips and other accessories	m2	\$ 13.00
<b>B2/17.3</b>	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
<b>B2/17.4</b>	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
<b>B2/17.5</b>	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
<b>B2/17.6</b>	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
<b>B2/17.7</b>	Lionmesh or equivalent fencing panel overall size 2400mm long x 1800mm high with 6.5mm bar and fixing clip complete	No.	\$ 110.00
<b>B2/17.8</b>	Double leaf swing gate size 6400mm wide x 1800mm high including 100mm GI post complete	Set	\$ 2,100.00
<b>B2/17.9</b>	1000mm wide x 1800mm high pedestrian gate including 100mm GI post complete	No.	\$ 350.00
<b>B2/17.10</b>	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
<b>B2/17.11</b>	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



Item No.	Description	Unit	Rate
B2/17.12	Fabricate and install MS 1000mm wide x 1800mm high pedestrian gate including 100mm diameter post	No.	\$ 300.00
B2/18.0	<b><u>ACCESSORIES AND ANCILLARIES</u></b>		
B2/18.1	<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>		
B2/18.1.1	Brass Bib Tap	No.	\$ 14.00
B2/18.1.2	Chrome Pillar Tap; American Standard	No.	\$ 25.00
B2/18.1.3	Chrome Pillar Tap; Armitage Shanks	No.	\$ 20.00
B2/18.1.4	Chrome Plated Goose Neck/Swan Tap (Single hole); American Standard	No.	\$ 40.00
B2/18.1.5	Chrome Plated Goose Neck/Swan Tap (Single hole); Armitage Shanks	No.	\$ 30.00
B2/18.1.6	Chrome Plated Goose Neck/Swan Tap (Single hole); Asahi Acrylic	No.	\$ 25.00
B2/18.1.7	Chrome Plated Goose Neck/Swan Tap mixer (Single hole); American Standard	No.	\$ 100.00
B2/18.1.8	Chrome Plated Goose Neck/Swan Tap mixer (Single hole); Armitage Shanks	No.	\$ 65.00
B2/18.1.9	Chrome Plated Goose Neck/Swan Tap mixer (Single hole); Asahi Acrylic	No.	\$ 48.00
B2/18.1.10	Chrome Plated Goose Neck/Swan Tap mixer (Double hole); American Standard	No.	\$ 200.00
B2/18.1.11	Chrome Plated Goose Neck/Swan Tap mixer (Double hole); Armitage Shanks	No.	\$ 140.00
B2/18.1.12	Chrome Plated Goose Neck/Swan Tap mixer (Double hole); Asahi Acrylic	No.	\$ 65.00
B2/18.2	Supply and fix new : Showy - 2565m - PQC; complete with connection to existing pipe	No.	\$ 38.00
B2/18.3	Supply and fix new : Showy 6272 - Quarter turn single level bib faucet - 140mm; complete with connection to existing pipe	No.	\$ 31.00
B2/18.4	Supply and fix new : Showy - 6051F50 : Quarter turn single lever flexible spout sink faucet; complete with connection to existing pipe	No.	\$ 50.00
B2/18.5	Supply and fix new : Showy - 2988 The Pure C.P brass garden tap; complete with connection to existing pipe	No.	\$ 9.00
B2/18.6	Supply and fix new : Showy 2575HC C.P C/C stop cock; complete with connection to existing pipe	No.	\$ 14.00
B2/18.7	Supply and fix new : Showy 6053 - Quarter turn single level wall sink tap; complete with connection to existing pipe	No.	\$ 35.00
B2/18.8	Supply and fix new : Showy 6051U Quarter turn single level 'U' spout sink faucet; complete with connection to existing pipe	No.	\$ 41.00
B2/18.9	<u>Chrome Pillar / WB tap</u>		
B2/18.9.1	15mm diameter	No.	\$ 15.00
B2/18.9.2	20mm diameter	No.	\$ 30.00
B2/18.9.3	22mm diameter	No.	\$ 45.00
B2/18.10	<u>Chromium water tap/bib tap</u>		
B2/18.10.1	Ditto but remove and replace 15mm "ilife" Art:TH8107 (3) bib cock/tap	No.	\$ 99.00
B2/18.10.2	Ditto but remove and replace 15mm diameter "Toto" T23 B13	No.	\$ 117.00
B2/18.11	<u>Lavatory Faucet (Wash Basin) Tap</u>		
B2/18.11.1	Ditto but remove and replace "ilife" Art:TH8065	No.	\$ 72.00
B2/18.11.2	Ditto but remove and replace 15mm diameter "Grohe" pillar tap : 20 101 OR "American Standard" WF-4604.405	No.	\$ 135.00
B2/18.11.3	Ditto but to remove and replace 15mm diameter, Toto TX603KCS hot and cold.	No.	\$ 113.00
B2/18.11.4	Ditto but to remove and replace 15mm diameter, Toto T205 LCSC	No.	\$ 135.00
B2/18.12	<u>Wash Basin mixer Tap with Pop-Up Waste/Weight Chain</u>		
B2/18.12.1	Ditto but to remove and replace "ilife" D7911D1C	No.	\$ 130.00
B2/18.12.2	Ditto but to remove and replace "TOTO" TX115 LF or "American Standard" wf-3011.201.50	No.	\$ 108.00
B2/18.12.3	Ditto but to remove and replace "Grohe" Euroeco 33 149	No.	\$ 117.00



Item No.	Description	Unit	Rate
B2/18.12.4	Ditto but to remove and replace "Grohe" Baucurve 32805. Chromium Plated Stop Valve (Angle tap)	No.	\$ 180.00
B2/18.12.5	Ditto but to remove and replace 15mm diameter "ilife".	No.	\$ 72.00
B2/18.12.6	Ditto but to remove and replace 15mm diameter "Toto" TX 423 ST1	No.	\$ 108.00
B2/18.12.7	Ditto but to remove and replace 15mm diameter, "Toto" TL 340 CSN or "American Standard".	No.	\$ 135.00
B2/18.13	<u>Chromium Plated Goose Neck or Swan Tap mixer (Single hole)</u>		
B2/18.13.1	Ditto but to remove and replace 15mm diameter "ilife" Art:TH8084 double handle or single handle	No.	\$ 90.00
B2/18.13.2	Ditto but to remove and replace 15mm diameter "ilife" Art:202102C single handle	No.	\$ 90.00
B2/18.13.3	Ditto but to remove and replace 15mm diameter "ilife" Art:202102C single handle mixer	No.	\$ 180.00
B2/18.13.4	Ditto but to remove and replace "Grohe": CLASSIC 31522	No.	\$ 135.00
B2/18.13.5	Ditto but to remove and replace "Grohe": CLASSIC 33202 mixer	No.	\$ 350.00
B2/18.13.6	Ditto but to remove and replace "Toto" TX603KCS	No.	\$ 96.00
B2/18.13.7	Ditto but to remove and replace "American Standard" WF-5607.501.50	No.	\$ 135.00
B2/18.14	<u>Garden Tap</u>		
B2/18.14.1	Ditto but to remove and replace 15mm diameter "Showy" 6082N Blue Handle mini Garden tap with hose union.	No.	\$ 18.00
B2/18.14.2	Ditto but 15mm diameter "ilife" Art:TH8107 (3) tap with hose union.	No.	\$ 72.00
B2/18.14.3	Ditto but to remove and replace "American Standard" WF-4606.405	No.	\$ 135.00
B2/18.14.4	Ditto but to remove and replace "Toto" T26-13	No.	\$ 135.00
B2/18.15	<u>Bath mixer Tap Complete with Telephone Shower</u>		
B2/18.15.1	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
B2/18.15.2	Ditto but to remove and replace 15mm diameter "ilife" 073101C single lever bath mixer with 98 6201C handshower with flexible hose.	No.	\$ 280.00
B2/18.15.3	Ditto but to remove and replace "Grohe": EUROECO 335838 "Single Lever"	No.	\$ 225.00
B2/18.15.4	Ditto but to remove and replace "Grohe": Baucurve 32805 "Single Lever"	No.	\$ 225.00
B2/18.15.5	Ditto but to remove and replace "American Standard" WF-2711.60.50 or "Toto" TX401 SBZ	No.	\$ 225.00
B2/18.15.6	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
B2/18.16	<u>Remove existing flexible hose and replace new with:</u>		
B2/18.16.1	15mm diameter; connection to pipe	No.	\$ 13.00
B2/18.16.2	20mm diameter; connection to pipe	No.	\$ 15.00
B2/18.17	<u>New flushing cistern-all dual flush or water saver types (3/6 litres)</u>		
B2/18.17.1	Ditto but to remove and replace "Toto" or "American Standard" (Ceramic high/low level - white) including all fittings and plumbing works.	No.	\$ 135.00
B2/18.17.2	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
B2/18.18	<u>Tank Fittings for Water Closets Cisterns</u>		
B2/18.18.1	W.C Siphon tank fittings	No.	\$ 50.00
B2/18.18.2	"Armitage Shank" free flow or any other technically approved equivalent	No.	\$ 50.00
B2/18.18.3	"American Standard" TF-1011 or any other technically approved equivalent	No.	\$ 50.00
B2/18.17	<u>Plastic mechanism Dual Flush Type for Water Closets/Flushing Cistern (Tank Fitting)</u>		
B2/18.17.1	Ditto but to remove and replace common / normal type or siphon type or similar fittings	No.	\$ 23.00
B2/18.17.2	Ditto but to remove and replace plastic mechanism for DUAL FLUSH TYPE "Toto" / "American Standard"	No.	\$ 54.00
B2/19.0	<u>Cracked Lines and the Likes</u>		
B2/191.1	Hack and clean all crack line to wall, ceiling, etc. and prepare surfaces to receive mortar	m	\$ 2.00
B2/19.2	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
B2/19.3	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



Item No.	Description	Unit	Rate
B2/19.4	Repair cracks by patch repair with polymer modifies mortar including applying bonding agent to newly hacked surfaces	m	\$ 18.00
B2/19.5	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
B2/19.6	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
B2/19.7	To remove, clean existing sealer, filler or putty prior to receive new filler or sealer.	m	\$ 4.00
B2/19.8	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
B2/19.9	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
B2/19.10	To supply and lay new sealant, to cracks and opening to masonry building generally.	m	\$ 15.00
B2/19.11	To supply and lay new roof asphalt cement to roof blister, cracks, joint and opening generally including warranty.	m	\$ 20.00
B2/19.12	<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>		
B2/19.12.1	grade 20	m2	\$ 15.00
B2/19.12.2	grade 25	m2	\$ 16.00
B2/19.12.3	grade 30	m2	\$ 17.00
B2/19.13	<b><u>Expansion Joints</u></b>		
B2/19.13.1	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
B2/19.13.2	<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>		
B2/19.13.2.1	12.5mm x 12.5mm	m	\$ 25.00
B2/19.13.2.2	24mm x 24mm	m	\$ 28.00
B2/19.13.2.3	30mm x 30mm	m	\$ 30.00
B2/20.0	<b><u>ROADWORKS, PAVING BLOCKS, ROAD SIGNAGES AND INTERNAL/EXTERNAL BUILDING SIGNAGES</u></b>		
B2/20.1	<b><u>Roadworks</u></b>		
B2/20.1.1	<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>		
B2/20.1.1.1	reinforced concrete	m3	\$ 55.00
B2/20.1.1.2	rock	m3	\$ 22.00
B2/20.1.1.3	tarmacadam road surfacing and base courses	m2	\$ 16.00



Item No.	Description	Unit	Rate
B2/20.1.2	<u>Preparing, trimming, etc sub-grade formation to the required levels, gradients, falls or camber to receive road bottoming, pavement or the like</u>	m2	\$ 1.60
B2/20.1.3	<u>Approved free-draining material (uncrushed stone); beds well consolidated, rolling with approved roller</u> 150mm thick including extra labour laying to slopes, falls or chamber; blinding with sand	m2	\$ 12.00
B2/20.1.4	<u>Bitumen tack coat; B.S. 3690; applied at the rate 2m2 - 3m2 per litre</u>		
B2/20.1.4.1	applying on blinded road base surface	m2	\$ 2.00
B2/20.1.4.2	applying on asphaltic concrete base coarse surface	m2	\$ 2.00
B2/20.1.5	<u>Asphaltic concrete base course; on road base; rolling with approved roller</u> 60mm thick after consolidated; laying to slopes, falls and cambers	m2	\$ 27.00
B2/20.1.6	<u>Asphaltic concrete wearing course; rolling with approved roller</u> 40mm thick after consolidated; laying to slopes, falls and cambers	m2	\$ 20.00
B2/20.1.7	Sealing of road pavement cracks with bitumen sand mix (1:2 portion) as directed by S.O	m	\$ 3.00
B2/20.2	<b><u>Road Furniture</u></b>		
B2/20.2.1	Forming asphalt road ramp; including compaction to form required slope profile complete with thermoplastic road paint to satisfaction of the Superintending Officer.	m2	\$ 35.00
B2/20.2.2	<u>Supply and fix approved rubber-coated steel hump complete with connection, all strictly in accordance with the Manufacturer's Specification and Instructions and Superintending Officer approval</u>		
B2/20.2.2.1	Speed hump, 50mm thick x 500mm width (reflective end cap)	m	\$ 30.00
B2/20.2.2.2	Speed hump, 50mm thick x 500mm width (non-reflective end cap)	m	\$ 30.00
B2/20.2.3	<u>Prepare and apply two coats minimum 2.5mm thickness of road marking thermoplastic reflective paint on road surfacing in approved colour and pattern as shown on drawing including all necessary setting out and templates.</u>		
B2/20.2.3.1	Stopline; 100mm wide	m	\$ 2.00
B2/20.2.3.2	Stopline; 300mm wide	m	\$ 3.00
B2/20.2.3.3	Parking line; 100mm wide	m	\$ 4.00
B2/20.2.3.4	Continuous line; 100mm wide	m	\$ 2.00
B2/20.2.3.5	Centre line; 100mm wide	m	\$ 2.00
B2/20.2.3.6	Yellow junction box; 300mm wide	m	\$ 4.00
B2/20.2.3.7	Cross hatching	m	\$ 3.00
B2/20.2.3.8	Single directional arrow mark pointing straight; overall size 500mm x 4000mm	No.	\$ 60.00
B2/20.2.3.9	Single directional arrow mark pointing left or right; overall size 500mm x 4000mm	No.	\$ 60.00
B2/20.2.3.10	Two ways directional arrow mark pointing straight and left or right; overall size 790mm x 4000mm	No.	\$ 60.00
B2/20.2.3.11	Two ways directional arrow mark pointing left and right; overall; size 1400mm x 4000mm	No.	\$ 60.00
B2/20.2.3.12	Road marking thermoplastic type for fire engine parking mark approx. size 12000mm (L) x 3000mm (W) (line width 100mm)	No.	\$ 1,600.00
B2/20.2.3.13	Pedestrian crossing, consists of 19 nos of equal paint each size 1800mm x 300mm, overall size 5600mm x 1800mm	No.	\$ 250.00
B2/20.2.4	<u>Prepare and apply two coats minimum 2.5mm thickness of road marking thermoplastic approved road line paint on road surfacing in approved colour and pattern as shown on drawing including all necessary setting out and templates.</u>		
B2/20.2.4.1	Stopline; 100mm wide	m	\$ 2.00
B2/20.2.4.2	Stopline; 300mm wide	m	\$ 4.00
B2/20.2.4.3	Parking line; 100mm wide	m	\$ 3.00
B2/20.2.4.4	Continuous line; 100mm wide	m	\$ 2.00
B2/20.2.4.5	Centre line; 100mm wide	m	\$ 2.00
B2/20.2.4.6	Yellow junction box; 300mm wide	m	\$ 4.00
B2/20.2.4.7	Cross hatching	m	\$ 2.00
B2/20.2.4.8	Single directional arrow mark pointing straight; overall size 500mm x 4000mm	No.	\$ 50.00
B2/20.2.4.9	Single directional arrow mark pointing left or right; overall size 500mm x 4000mm	No.	\$ 50.00



Item No.	Description	Unit	Rate
B2/20.2.4.10	Two ways directional arrow mark pointing straight and left or right; overall size 790mm x 4000mm	No.	\$ 50.00
B2/20.2.4.11	Two ways directional arrow mark pointing left and right; overall; size 1400mm x 4000mm	No.	\$ 50.00
B2/20.2.4.12	Road marking thermoplastic type for fire engine parking mark approx. size 12000mm (L) x 3000mm (W) (line width 100mm)	No.	\$ 1,500.00
B2/20.2.4.13	Pedestrian crossing, consists of 19 nos of equal paint each size 1800mm x 300mm, overall size 5600mm x 1800mm	No.	\$ 250.00
B2/20.2.5	<u>Supply and install the following standard size reflective warning directional signs with and including 100mm diameter galvanised iron pipe post cast into and including concrete footing and all excavation, formwork, disposal and painting post to approved specified color all as per complying to Road Department Regulations.</u>		
B2/20.2.5.1	STOP / "BERHENTI" sign, overall signage size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.2	NO LEFT TURN / "NO RIGHT TURN" sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.3	NO U-TURN sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.4	U-TURN sign, size 900mm x 600mm	No.	\$ 350.00
B2/20.2.5.5	NO WAITING sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.6	NO ENTRY sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.7	SPEED LIMIT sign, size 600mm diameter	No.	\$ 350.00
B2/20.2.5.8	END OF SPEED LIMIT sign, size 600mm diameter	No.	\$ 350.00
B2/20.2.5.9	GIVE WAY sign, size 600mm diameter	No.	\$ 350.00
B2/20.2.5.10	ONE WAY STREET sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.11	KEEP LEFT sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.12	KEEP EITHER SIDE" sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.13	BUS STOP" sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.14	MAXIMUM HEIGHT CLEARANCE sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.15	NO PARKING sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.16	PARKING AREA sign, size 900mm x 900mm	No.	\$ 350.00
B2/20.2.5.17	Signage for fire engine access sign approx. size 2000mm x 1000mm	No.	\$ 865.00
B2/20.2.5.18	Caution sign; overall size, 2000mm (L) x 1000mm (H) inclusive of wording "DILARANG MELETAKKAN KEDENDERAAN ATAU BARANG BARANGAN" / "PARKING OR PLACING GOODS ARE PROHIBITED" sign	No.	\$ 865.00
B2/20.2.5.19	OCCUPANCY LIMIT' (maximun occupancy) sign, sizes 355mm x 255mm	No.	\$ 40.00
B2/20.2.5.20	REVERSE PARKING ONLY sign, size 450mm x 300mm	No.	\$ 59.00
B2/20.2.6	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
B2/20.2.7	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
B2/20.2.8	<u>Approved heavy-duty Grade 316 Stainless Steel Removeable Bollard, stain-finished complete approved reflector stripes, inclusive of all necessary fixing accessories and fix in accordance to the manufacturer requirement and to satisfaction of the Superintending Officer.</u> 150mm diameter stainless steel bollard, 700mm high	No.	\$ 120.00
B2/20.2.9	<u>Approved heavy-duty ultra-violet resistance PVC Removeable Bollard, complete with approved reflector stripes, inclusive of all necessary fixing accessories and fixed in accordance to the manufacturer's requirement and to satisfaction of the Superintending Officer.</u> 150mm diameter PVC bollard, 700mm high	No.	\$ 21.00
B2/20.3	<b><u>Painting Works</u></b>		
B2/20.3.1	Prepare and apply two coats of approved road reflective paint to general surfaces of road kerb in black and white alternately in 600mm length, exceeding 500mm but not exceeding 600mm girth	m	\$ 2.00
B2/20.4	<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>		
B2/20.4.1	"D" type	m2	\$ 100.00
B2/20.4.2	"U" type	m2	\$ 122.00
B2/20.4.3	"Y" type	m2	\$ 100.00



Item No.	Description	Unit	Rate
B2/20.4.4	"Shell" type	m2	\$ 32.00
B2/20.4.5	"Penguin" type	m2	\$ 105.00
B2/21.0	<b>DRAINLAYER</b>		
B2/21.1	<b>Sewer Line Pipeworks</b>		
B2/21.1.1	<u>Vitrified Clay pipes and fittings; to BS 65 and BS 540; spigot and flexible joints; including cutting where required for, providing temporary stops, softboard at joints; including all flexible connection and mechanical joint to pipe and from manhole.</u>		
B2/21.1.1.1	100mm diameter pipe, laid in trench to fall	m	\$ 61.00
B2/21.1.1.2	150mm diameter pipe, laid in trench to fall	m	\$ 74.00
B2/21.1.1.3	200mm diameter pipe, laid in trench to fall	m	\$ 99.00
B2/21.1.2	<u>Ductile Iron pipe to BS 4772 with external coating to BS 4146 &amp; internal aluminium cement lining joined with and including approved joints and laid in trench all in accordance with manufacturer's instruction.</u>		
B2/21.1.2.1	100mm diameter pipe, laying in trench to fall including concrete Grade 15 anchor thrust block where necessary	m	\$ 73.00
B2/21.1.2.2	150mm diameter pipe, laying in trench to fall including concrete Grade 15 anchor thrust block where necessary	m	\$ 94.00
B2/21.1.2.3	200mm diameter pipe, laying in trench to fall including concrete Grade 15 anchor thrust block where necessary	m	\$ 126.00
B2/21.1.3	<u>Coated ductile iron pipes and fittings to BS EN 545 : 2002 / ISO 2531 : 1998 or IS 8329 : 2000, Class K-9 with integral cement lining or polyurethane lining as specified ; push-on rubber 'O' ring socket fittings for underground installations; flange and flexible joints buried underground protected with 'Denso Mastic' and wrapped around with 'Denso Tape' or other equal and approved protection system.</u>		
B2/21.1.3.1	100mm diameter pipe, laying in trench to fall including concrete Grade 15 anchor thrust block where necessary	m	\$ 92.00
B2/21.1.3.2	150mm diameter pipe, laying in trench to fall including concrete Grade 15 anchor thrust block where necessary	m	\$ 118.00
B2/21.1.3.3	200mm diameter pipe, laying in trench to fall including concrete Grade 15 anchor thrust block where necessary	m	\$ 158.00
B2/21.1.4	<u>UPVC pipes and fittings; BS 4660; jointing in accordance with the Manufacturer's Instructions.</u>		
B2/21.1.4.1	100mm diameter pipe, laid in trench to fall	m	\$ 22.00
B2/21.1.4.2	150mm diameter pipe, laid in trench to fall	m	\$ 36.00
B2/21.2	<b>Pipe Bedding</b>		
B2/21.2.1	<u>Pipe bedding and backfilling consisting of 50mm thick Grade 15 lean concrete, Grade 30 reinforced concrete bed with all necessary reinforcement, formwork and backfilled with 750mm thick well compacted sand and complete with well compacted selected materials, all as per Superintending Officer instructions.</u>		
B2/21.2.1.1	100mm diameter pipe, laid in trench to fall	m	\$ 32.00
B2/21.2.1.2	150mm diameter pipe, laid in trench to fall	m	\$ 36.00
B2/21.2.2	<u>Pipe bedding and backfilling under road pavement consisting of 50mm thick Grade 15 lean concrete, grade 30 reinforced concrete bed with all necessary reinforcement, formwork and backfilled with 750mm thick well compacted sand and complete with well compacted selected materials, all as per Superintending Officer instructions.</u>		
B2/21.2.2.1	100mm diameter pipe, laid in trench to fall	m	\$ 32.00
B2/21.2.2.2	150mm diameter pipe, laid in trench to fall	m	\$ 36.00



Item No.	Description	Unit	Rate
B2/21.3	<b>Manhole</b>		
B2/21.3.1	<u>Rectangular manhole internal size 900mm x 760mm, complete with sulphate resistance Grade 30, 150mm thick walls, 200mm thick base and 150mm thick cover slab, on lean concrete blinding, alumina cement and sand (1:3) benching and rendering to exposed surfaces including all necessary excavation, reinforcement, formwork, disposal, backfilling and approved iron step to BS 1247 coated with polypropylene copolymer etc, all as per Superintending Officer instructions</u>		
B2/21.3.1.1	Average depth 600mm - 900mm deep to invert	No.	\$ 530.00
B2/21.3.1.2	Average depth 900mm - 1200mm deep to invert	No.	\$ 700.00
B2/21.3.2	<u>Rectangular manhole internal size 900mm x 760mm, complete with sulphate resistance Grade 30, 200mm thick walls, 200mm thick base and 150mm thick cover slab, on lean concrete blinding, precast sulphate resistance concrete chamber ring encased in concrete surround, alumina cement and sand (1:3) benching and rendering to exposed surfaces including all necessary excavation, reinforcement, formwork, disposal and approved cast iron step etc, all as per Superintending Officer instructions.</u>		
B2/21.3.2.1	Average depth 600mm - 900mm deep to invert	No.	\$ 565.00
B2/21.3.2.2	Average depth 900mm - 1200mm deep to invert	No.	\$ 780.00
B2/21.3.3	<u>Circular internal chamber size 1200mm diameter, complete with sulphate resistance Grade 30, 150mm thick walls, 200mm thick base and 150mm thick cover slab, on lean concrete blinding, alumina cement and sand (1:3) benching and rendering to exposed surfaces including all necessary excavation, reinforcement, formwork, disposal, backfilling and approved iron step to BS 1247 coated with polypropylene copolymer etc, all as per Superintending Officer instructions.</u>		
B2/21.3.3.1	Average depth 600mm - 900mm deep to invert	No.	\$ 1,400.00
B2/21.3.3.2	Average depth 900mm - 1200mm deep to invert	No.	\$ 1,800.00
B2/21.3.4	<u>Manholes; one brick sides; 20mm cement mortar (1:3) external rendering; 20mm cement and sand (1:2) internal rendering; 225 concrete bed on 75mm concrete (1:3:6) binding; 180mm concrete cover slab reinforced with two layers of B. R. C. No. A6 fabric reinforcement; on brick thick surround to opening three courses high for cover and framing (measured separately); concrete benching to channels rendered in cement and sand (1:2); galvanised malleable cast iron step to BS 1247 staggered built-in to wall at 300mm centres.</u>  <u>1220 x 760mm internal size.</u>		
B2/21.3.4.1	Average depth 600mm - 900mm deep to invert; with vitrified clay 150mm half round straight main channel; two 100mm three quarter section branch channels	No.	\$ 380.00
B2/21.3.4.2	Average depth 900mm - 1200mm deep to invert; with vitrified clay 150mm half round straight main channel; two 150mm three quarter section branch channels	No.	\$ 510.00
B2/21.4	<b>Grease Trap</b>		
B2/21.4.1	<u>Grease trap internal chamber size 1800mm diameter, complete with sulphate resistance Grade 30 concrete base and cover slab, on lean concrete blinding, 150mm thick walls, 150mm thick base and 100mm thick slab cover, on lean concrete blinding, stainless steel strainer bucket, alumina cement and sand (1:3) benching and rendering to exposed surfaces including all necessary excavation, reinforcement, formwork, disposal, approved iron step to BS 1247 coated with polypropylene copolymer, all heavy duty approved manhole covers etc, all as per Superintending Officer instructions.</u>		
B2/21.4.1.1	Average depth 600mm - 900mm deep to invert	No.	\$ 3,000.00
B2/21.4.1.2	Average depth 900mm - 1200mm deep to invert	No.	\$ 3,850.00
B2/21.5	<b>Backdrop</b>		
B2/21.5.1	<u>Plain concrete sulphate resistance Grade 30 backdrop complete with and including vitrified clay, 90 degree square junction, 90 degree long bend, short piece, concrete surround, excavation, backfilling and cartaway, all as per Superintending Officer instructions.</u>		
B2/21.5.1.1	Backdrop for 150mm diameter vitrified clay pipe	No.	\$ 900.00



Item No.	Description	Unit	Rate
B2/21.6	Chamber		
B2/21.6.1	<u>Supply, delivery and construct reinforced sulphate resistance concrete Grade 30 neutralising chamber, secondary chamber and outlet, including excavation, disposal, backfilling, concrete, reinforcement, formwork, rendering, screeding, approved neutralising fill of limestones &amp; bicarbonate, approved charcoal faggots fill, retaining boulder of varies sizes, pipes amd fittings, heavy duty manhole covers, aggregates, testing, seeding, all as per Superintending Officer instructions.</u>		
B2/21.6.1.1	Neutralising chamber; overall size 1050mm x 4650mm x 2375mm deep	No.	\$ 2,800.00
B2/21.6.2	Sluice Valve Chamber; overall average size 1500mm x 1500mm x 1050mm deep (internal) constructed all as per Engineer's detail drawing including all excavation, concrete, reinforcement, formwork, backfilling and disposal	No.	\$ 1,560.00
B2/21.7	Heavy Duty Covers and Traps		
B2/21.7.1	<u>Heavy duty, Grade D400 ductile iron frame and cover to BS EN 124; 600mm diameter circular frame and cover including cement mortar (1:3) bedding and backing and two coats of coal tar epoxy paint as per Superintending Officer specification.</u>		
B2/21.7.1.1	Manhole cover; 600mm diameter	No.	\$ 146.00
B2/21.7.1.2	Septic tank cover; 600mm diameter	No.	\$ 146.00
B2/21.7.1.3	Grease trap cover; 600mm diameter	No.	\$ 146.00
B2/21.7.1.4	Nuetralising chamber cover; 600mm diameter	No.	\$ 146.00
B2/21.7.2	<u>Heavy duty, Grade D400 ductile iron frame and cover to BS EN 124; 450mm x 600mm double triangular frame and cover including cement mortar (1:3) bedding and backing and two coats of coal tar epoxy paint as per Superintending Officer specification</u>		
B2/21.7.2.1	Manhole cover; 600mm diameter	No.	\$ 245.00
B2/21.7.2.2	Septic tank cover; 600mm diameter	No.	\$ 245.00
B2/21.7.2.3	Grease trap cover; 600mm diameter	No.	\$ 245.00
B2/21.7.2.4	Nuetralising chamber cover; 600mm diameter	No.	\$ 245.00
B2/21.7.3	<u>Heavy duty hot dipped galvanised mild steel gratings; including angles, intersections and ends; setting and hinges on and including 70 x 70 x 10mm thick mild steel angle frames bedded in cement mortar (1:3); welded with R10 dowel bar cast into rebate of box channel infill with 50mm high x 12mm thick at 40mm centre, all as per Superintending Office instructions.</u>		
B2/21.7.3.1	600mm x 600mm concrete sump	No.	\$ 180.00
B2/21.7.3.2	675mm x 675mm concrete sump	No.	\$ 280.00
B2/21.8	Medium Duty Covers		
B2/21.8.1	<u>Medium duty, Grade B125 ductile iron frame and cover to BS EN124; 600mm diameter circular frame and cover including cement mortar (1:3) bedding and backing and two coats of coal tar epoxy paint as per Superintending Officer specification.</u>		
B2/21.8.1.1	Manhole cover; 600mm diameter	No.	\$ 123.00
B2/21.8.1.2	Septic tank cover; 600mm diameter	No.	\$ 123.00
B2/21.8.1.3	Grease trap cover; 600mm diameter	No.	\$ 123.00
B2/21.8.1.4	Nuetralising chamber cover; 600mm diameter	No.	\$ 123.00
B2/21.8.2	<u>Medium duty, Grade B125 ductile Iron frame and cover to BS EN124; 450mm x 600mm double triangular frame and cover including cement mortar (1:3) bedding and backing and two coats of coal tar epoxy paint as per Superintending Officer specification</u>		
B2/21.8.2.1	Manhole cover; 600mm diameter	No.	\$ 107.00
B2/21.8.2.2	Septic tank cover; 600mm diameter	No.	\$ 107.00
B2/21.8.2.3	Grease trap cover; 600mm diameter	No.	\$ 107.00
B2/21.8.2.4	Nuetralising chamber cover; 600mm diameter	No.	\$ 107.00
B2/21.8.3	<u>Medium Duty, Coated cast iron rectangular single seal cover and frame; BS 497 Grade C; weighing 210kg; bedding frame in cement mortar (1:3); sealing in grease and fine sand.</u>		
B2/21.8.3.1	Manhole cover; 450mm x 600mm rectangular single seal cover	No.	\$ 102.00
B2/21.8.3.2	Septic tank cover; 450mm x 600mm rectangular single seal cover	No.	\$ 102.00
B2/21.8.3.3	Grease trap cover; 450mm x 600mm rectangular single seal cover	No.	\$ 102.00
B2/21.8.3.4	Nuetralising chamber cover; 450mm x 600mm rectangular single seal cover	No.	\$ 102.00



Item No.	Description	Unit	Rate
B2/21.9	<b>Light Duty Covers</b>		
B2/21.9.1	<u>Light duty, Grade A15 ductile iron frame and cover to BS EN 124; 600mm diameter circular frame and cover including cement mortar (1:3) bedding and backing and two coats of coal tar epoxy paint as per Superintending Officer specification</u>		
B2/21.9.1.1	Manhole cover; 600mm diameter	No.	\$ 99.00
B2/21.9.1.2	Septic tank cover; 600mm diameter	No.	\$ 99.00
B2/21.9.1.3	Grease trap cover; 600mm diameter	No.	\$ 99.00
B2/21.9.1.4	Nuutralising chamber cover; 600mm diameter	No.	\$ 99.00
B2/21.9.2	<u>Light duty, Grade A15 ductile iron frame and cover to BS EN 124; 450mm x 600mm rectangular frame and cover including cement mortar (1:3) bedding and backing and two coats of coal tar epoxy paint as per Superintending Officer specification.</u>		
B2/21.9.2.1	Manhole cover; 600mm diameter	No.	\$ 63.00
B2/21.9.2.2	Septic tank cover; 600mm diameter	No.	\$ 63.00
B2/21.9.2.3	Grease trap cover; 600mm diameter	No.	\$ 63.00
B2/21.9.2.4	Nuutralising chamber cover; 600mm diameter	No.	\$ 63.00
B2/21.10	<b>Gully Tap Cover</b>		
B2/21.10.1	<u>Supply and install approved gully trap cover, complete with all necessary connections as per Superintending Officer instructions</u>		
B2/21.10.1.1	8" x 8" gully trap cover	No.	\$ 15.00
B2/21.11	<b>Flap Valve</b>		
B2/21.11.1	<u>Supply and install approved ductile iron flap valve, complete with all necessary connections as per Superintending Officer instructions.</u>		
B2/21.11.1.1	6" D.I flap valve	No.	\$ 55.00
B2/21.11.1.2	10" D.I flap valve	No.	\$ 130.00
B2/21.12	<u>Allow for labour and material for connection of new sewer pipes to existing manholes complete with coring / cutting of existing drain and make good all to the satification of the Superintending Officer and approval of the Local Authorities.</u>		
B2/21.12.1	100mm diameter	No.	\$ 500.00
B2/21.12.2	150mm diameter	No.	\$ 500.00
B2/21.13	<u>Allow for labour and material for connection of new sewer pipes to existing septic tank complete with coring / cutting of existing drain and make good all to the satification of the Superintending Officer and approval of the Local Authorities.</u>		
B2/21.13.1	100mm diameter	No.	\$ 1,000.00
B2/21.13.2	150mm diameter	No.	\$ 1,000.00
B2/21.13	<u>Allow for labour and materials to fix Vitrified Clay pipe to BS EN295 jointings and fittings; all strictly in accordance with the satisfaction of the Superintending Officer.</u>		
B2/21.13.1	<u>Tea:</u>		
B2/21.13.1.1	for 75mm diameter Vitrified Clay pipe	No.	\$ 40.00
B2/21.13.1.2	for 100mm diameter Vitrified Clay pipe	No.	\$ 49.00
B2/21.13.1.3	for 150mm diameter Vitrified Clay pipe	No.	\$ 66.00
B2/21.13.2	<u>Bend:</u>		
B2/21.13.2.1	for 75mm diameter Vitrified Clay pipe	No.	\$ 40.00
B2/21.13.2.2	for 100mm diameter Vitrified Clay pipe	No.	\$ 49.00
B2/21.13.2.3	for 150mm diameter Vitrified Clay pipe	No.	\$ 66.00
B2/21.13.3	<u>Elbow:</u>		
B2/21.13.3.1	for 75mm diameter Vitrified Clay pipe	No.	\$ 29.00
B2/21.13.3.2	for 100mm diameter Vitrified Clay pipe	No.	\$ 33.00
B2/21.13.3.3	for 150mm diameter Vitrified Clay pipe	No.	\$ 43.00



Item No.	Description	Unit	Rate
B2/21.14	<u>Allow for labour and materials for Vitrified Clay pipe fitting to BS 65 and S 540, all strictly in accordance with the satisfaction of the Superintending Officer.</u>		
B2/21.14.1	<u>For 100mm diameter Vitrified Clay pipe</u>		
B2/21.14.1.1	Spigot	No.	\$ 70.00
B2/21.14.1.2	Socketed	No.	\$ 70.00
B2/21.14.1.3	Jointing with rubber ring flexible joint	No.	\$ 30.00
B2/21.14.1.4	Extra for pipe bend	No.	\$ 67.00
B2/21.14.1.5	Extra for junction	No.	\$ 109.00
B2/21.14.2	<u>For 150mm diameter Vitrified Clay pipe</u>		
B2/21.14.2.1	Spigot	No.	\$ 105.00
B2/21.14.2.2	Socketed	No.	\$ 105.00
B2/21.14.2.3	Jointing with rubber ring flexible joint	No.	\$ 45.00
B2/21.14.2.4	Extra for pipe bend	No.	\$ 90.00
B2/21.14.2.5	Extra for junction	No.	\$ 140.00
B2/21.14.3	<u>For 200mm diameter Vitrified Clay pipe</u>		
B2/21.14.3.1	Spigot	No.	\$ 140.00
B2/21.14.3.2	Socketed	No.	\$ 140.00
B2/21.14.3.3	Jointing with rubber ring flexible joint	No.	\$ 60.00
B2/21.14.3.4	Extra for pipe bend	No.	\$ 120.00
B2/21.14.3.5	Extra for junction	No.	\$ 190.00
B2/21.15	<u>Allow for labour and materials for Ductile Iron pipe fitting to BS 4772 with external coating to BS 4146, all strictly in accordance with the satisfaction of the Superintending Officer.</u>		
B2/21.15.1	<u>For 100mm diameter Ductile Iron pipe</u>		
B2/21.15.1.1	Spigot	No.	\$ 70.00
B2/21.15.1.2	Socketed	No.	\$ 70.00
B2/21.15.1.3	Jointing with rubber ring flexible joint	No.	\$ 30.00
B2/21.15.1.4	Extra for pipe bend	No.	\$ 67.00
B2/21.15.1.5	Extra for junction	No.	\$ 109.00
B2/21.15.2	<u>For 150mm diameter Ductile Iron pipe</u>		
B2/21.15.2.1	Spigot	No.	\$ 340.00
B2/21.15.2.2	Socketed	No.	\$ 340.00
B2/21.15.2.3	Jointing with rubber ring flexible joint	No.	\$ 70.00
B2/21.15.2.4	Extra for pipe bend	No.	\$ 286.00
B2/21.15.2.5	Extra for junction	No.	\$ 448.00
B2/21.15.3	<u>For 200mm diameter Ductile Iron pipe</u>		
B2/21.15.3.1	Spigot	No.	\$ 340.00
B2/21.15.3.2	Socketed	No.	\$ 340.00
B2/21.15.3.3	Jointing with rubber ring flexible joint	No.	\$ 70.00
B2/21.15.3.4	Extra for pipe bend	No.	\$ 286.00
B2/21.15.3.5	Extra for junction	No.	\$ 448.00
B2/21.16	<u>Allow for labour and materials for UPVC pipe fitting to BS 4660, all strictly in accordance with the satisfaction of the Superintending Officer.</u>		
B2/21.16.1	<u>For 100mm diameter UPVC pipe</u>		
B2/21.16.1.1	Spigot	No.	\$ 19.00
B2/21.16.1.2	Socketed	No.	\$ 19.00
B2/21.16.1.3	Jointing with rubber ring flexible joint	No.	\$ 6.00
B2/21.16.1.4	Extra for pipe bend	No.	\$ 17.00
B2/21.16.1.5	Extra for junction	No.	\$ 24.00
B2/21.16.2	<u>For 150mm diameter UPVC pipe</u>		
B2/21.16.2.1	Spigot	No.	\$ 46.00
B2/21.16.2.2	Socketed	No.	\$ 46.00
B2/21.16.2.3	Jointing with rubber ring flexible joint	No.	\$ 6.00



Item No.	Description	Unit	Rate
B2/12.16.2.4	Extra for pipe bend	No.	\$ 40.00
B2/12.16.2.5	Extra for junction	No.	\$ 61.00
<b>B2/12.17</b>	<b>Covers and Traps</b>		
<b>B2/12.17.1</b>	<u>Allow labour and material to take off and remove existing cover and frame off-site to the satisfaction of the Superintending Officer.</u>		
B2/12.17.1.1	Existing manhole cover (any size / shape)	No.	\$ 14.00
B2/12.17.1.2	Existing septic tank cover (any size / shape)	No.	\$ 14.00
B2/12.17.1.3	Existing grease trap cover (any size / shape)	No.	\$ 14.00
B2/12.17.1.4	Existing neutralising chamber cover (any size / shape)	No.	\$ 14.00
B2/12.17.1.5	Existing gully trap cover (any size / shape)	No.	\$ 14.00
<b>B2/12.17.2</b>	<u>Allow labour and material to take off and refit existing cover and frame off-site and make good all works disturbed to the satisfaction of the Superintending Officer.</u>		
B2/12.17.2.1	Existing manhole cover (any size / shape)	No.	\$ 27.00
B2/12.17.2.2	Existing septic tank cover (any size / shape)	No.	\$ 27.00
B2/12.17.2.3	Existing grease trap cover (any size / shape)	No.	\$ 27.00
B2/12.17.2.4	Existing neutralising chamber cover (any size / shape)	No.	\$ 27.00
B2/12.17.2.5	Existing gully trap cover (any size / shape)	No.	\$ 27.00
<b>B2/12.18</b>	<b>Testing And Commissioning</b>		
<b>B2/12.18.1</b>	<u>Upon completion of the whole foul drainage system, clean away all debris and clean thoroughly with water to the satisfaction of the Superintending Officer including paying all charges incurred.</u>	No.	\$ 250.00
<b>B2/12.18.2</b>	<u>Testing the installation as the work proceeds and on completion to the satisfaction of the Superintending Officer and approval of the Local Authorities</u>	No.	\$ 350.00
<b>B2/22.0</b>	<b>GENERAL SERVICES</b>		
<b>B2/22.1</b>	<b>Cleaning Water Tank</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>		
B2/22.1.1	Not exceeding 2300 litres (1.2m x 1.2m x 1.2m)	No.	\$ 80.00
B2/22.1.2	Ditto but not exceeding 4000 litres (1m x 2m x 2m)	No.	\$ 100.00
B2/22.1.3	Ditto but not exceeding 8000 litres (2m x 2m x 2m)	No.	\$ 200.00
B2/22.1.4	Ditto but no exceeding 50,000 litres (5m x 5m x 2.5m)	No.	\$ 300.00
B2/22.1.5	Ditto but not exceeding 72,000 litres (6m x 6m x 2.5m)	No.	\$ 350.00
<b>B2/22.2</b>	<b>Miscellaneous Maintenance Works Clean, Desludged and Unblock Clogged Sanitary System</b>		
	<u>Supply labour, plants, tools, equipment, vehicles and other necessary to clean, desludge and unblock the following clogged sanitary plumbing system and fittings:</u>		
B2/22.2.1	manhole (any size)	No.	\$ 300.00
B2/22.2.2	Septic tank (any size)	No.	\$ 600.00
B2/22.2.3	Grease trap (any size)	No.	\$ 425.00
B2/22.2.4	Gully trap (any size)	No.	\$ 50.00
B2/22.2.5	Floor trap (any size)	No.	\$ 30.00
B2/22.2.6	Toilet bowl (any size)	No.	\$ 40.00
B2/22.2.7	Urinal bowl (any size)	No.	\$ 40.00
B2/22.2.8	Wash hand basin (any size)	No.	\$ 30.00
B2/22.2.9	Kitchen sink (any size)	No.	\$ 30.00
B2/22.2.10	150mm - 100mm diameter pipe	m	\$ 10.00
B2/22.2.11	100mm - 75mm diameter pipe	m	\$ 8.00
B2/22.2.12	75mm - 50mm diameter pipe	m	\$ 5.00



Item No.	Description	Unit	Rate
B2/22.3	<b>Temporary Hiab Crane, Safety Signs &amp; Hoarding</b>		
B2/22.3.1	<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>		
B2/22.3.1.1	Normal Hiab	Hour	\$ 90.00
B2/22.3.1.2	Crane with Long Boom (915 tonnes / 20 tonnes / 25tonnes)	Hour	\$ 200.00
B2/22.3.2	<u>Construct and install hoarding:</u>		
B2/22.3.2.1	Safety hoarding; less than 2.5m high, metal cladding including timber/metal support, bracing and all other necessary works	m	\$ 40.00
B2/22.3.2.2	Safety hoarding; 2.5m - 4m high, metal cladding including timber/metal support, bracing and all other necessary works	m	\$ 80.00
B2/22.3.3	<u>Supply and install:</u>		
B2/22.3.3.1	Safety barricades, safety cones, signboard, safety netting or any relevant acceptable safety measures	Lot	\$ 50.00
B2/22.3.3.2	Heavy duty green canvas inclusive of ropes, pegs and installation	m2	\$ 6.00
B2/22.3.3.3	Barrier warning tapes (Red and white colour)	m	\$ 0.10
B2/22.4	<b>General Conservancy &amp; Cleaning Works</b>		
B2/22.4.1	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
B2/22.4.2	<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>		
B2/22.4.2.1	driveway, apron	m2	\$ 0.80
B2/22.4.2.2	perimeter drain	m	\$ 1.00
B2/22.5	<b>Clear &amp; Cutting</b>		
B2/22.5.1	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	\$ 1.40
B2/22.5.2	<u>Cut down large trees or fallen trees including grubbing up roots and filling voids with imported fills; and dispose off site</u>		
B2/22.5.2.1	< 150mm Ø	No.	\$ 250.00
B2/22.5.2.2	150mm - 300mm Ø	No.	\$ 400.00
B2/22.5.2.3	> 300mm Ø	No.	\$ 650.00
B2/22.6	<b>Grass Cutting Works</b>		
	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	m2	0.20



Item No.	Description	Unit	Rate
B2/22.7	<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.		
B2/22.7.1	<b><u>Anti-Termites treatment Works</u></b>		
B2/22.7.1.1	<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
B2/22.7.1.2	<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
B2/22.7.1.3	<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
B2/22.7.1.4	<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
B2/22.7.2	<b><u>Hornet's Hive Removal</u></b>		
B2/22.7.2.1	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
B2/22.7.3	<b><u>Rodent Control</u></b>		
B2/22.7.3.1	<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 adour. After such treatment, a maintenance programmes will be undertaken as stated in item 3.2.	Time	\$ 800.00
B2/22.7.3.2	<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 hermorrhage 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



Item No.	Description	Unit	Rate
<p><b>B2/22.8</b></p> <p><b>Temporary Scaffolding</b></p> <p><b>Note:</b> Provide, maintain and remove when directed by the S.O. and make good all temporary scaffolding complete with safety cover net, staging, planked footways, guard-rails, toe boards, rigld clamp, swivel clamp, cross bracing, diagonal brace, sill, base plate and the like and to whatever height as may required for the use of the workmen in accordance of the S.O. and Safety, Health and Environment National Authority (SHENA).</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 Safety, Health and Environment National Authority (SHENA), "Guidelines For The Safe Use Of Scaffolding", Ref No.: IGN 01/2020 Rev 2.</p> <p>Provide for any modification and/or re-erection to the foregoing or scaffolding which may become necessary.</p>			
<p><b>B2/22.8.1</b></p>	<p><u>To provide scaffolding according to site condition required. Scaffolding methodology to be used on site firstly must be submitted to O.J.C / S.O for approval before installation to be carried out.</u></p>	Time	\$ 150.00
<p><b>B2/22.8.1.1</b></p>	<p>mobile scaffolding</p>	m3	\$ 4.00
<p><b>B2/22.8.1.2</b></p>	<p>A or H frame/tubular pipe scaffolding</p>		



Item No.	Description	Unit	Rate
B3	<u>BILL NO. 3 - ELECTRICAL WORKS</u>		
B3/G	<p><u>GENERAL REQUIREMENT</u></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>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, switthes, 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
B3/1.0	<u>SUPPLY OF NON FULL TIME ELECTRICAL WORKERS</u>  All prices in this bill 1.0 are flat and not included in the discount		
B3/1.1	<u>PREVENTIVE MAINTENANCE &amp; SERVICE, FULL TIME STANDBY, OPERATE, ATTEND BREAKDOWN AND ON CALL</u>  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 & services for all the systems & areas as specified on site for 24 Hours basis (Including Friday, Sunday, Public Holidays)  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.  Work will be cover routine maintenance Such as breakdown (24hrs basis), troubleshooting & 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.  Note: Contractors shall provide standby teams for any requirements above for special events, functions, etc for the contract period of 36 Months and any requirement by DIC  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 DIC  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 will be covering high and low area (unlimited usage).	Monthly	Inclusive
B3/1.2	<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>		
B3/1.2.1	Electrical Technicians (Gang A - for 1 person)	hour	\$ 5.00
B3/1.2.2	Electrical Tradesman (Gang A - for 1 person)	hour	\$ 5.00
B3/1.2.3	Electrical Technicians (Gang B- for 1 person)	hour	\$ 5.00
B3/1.2.4	Electrical Tradesman (Gang B- for 1 person)	hour	\$ 5.00
B3/1.2.5	Electrical Technicians (Gang C - for 1 person)	hour	\$ 5.00
B3/1.2.6	Electrical Tradesman (Gang C - for 1 person)	hour	\$ 5.00



Item No.	Description	Unit	Rate
B3/2.0	<b>SWITCHES</b>		
	<u>To supply, replace, install c/w connection and termination.</u>		
	<u>As approved Equivalent to DES and Best Quality</u>		
B3/2.1	1 gang 1 way 5A switch	No.	\$ 5.00
B3/2.2	2 gang 1 way 5A switch	No.	\$ 10.00
B3/2.3	3 gang 1 way 5A switch	No.	\$ 18.00
B3/2.4	4 gang 1 way 5A switch	No.	\$ 20.00
B3/2.5	5 gang 1 way 5A switch	No.	\$ 25.00
B3/2.6	1 gang 2 way 5A switch	No.	\$ 8.00
B3/2.7	2 gang 2 way 5A switch	No.	\$ 12.00
B3/2.8	Surface 3" x 3" blank cover plate	No.	\$ 2.00
B3/2.9	Surface 3" x 6" blank cover plate	No.	\$ 3.00
B3/2.10	Surface 3" x 3" mounting box	No.	\$ 2.00
B3/2.11	Surface 3" x 6" mounting box	No.	\$ 3.00
B3/2.12	1 gang 1 way weatherproof switch	No.	\$ 100.00
B3/2.13	2 gang 1 way weatherproof switch	No.	\$ 150.00
B3/2.14	Ceiling fan regulator	No.	\$ 45.00
B3/2.15	5A Ceiling Rose	No.	\$ 6.00
B3/2.16	Fan Hook	No.	\$ 20.00
B3/2.17	Heavy Duty Junction box c/w silicon/ gasket	No.	\$ 45.00
B3/2.18	500W Dimmer Switch, 600W 16 Rotary Dimmer	No.	\$ 24.00
B3/2.19	1000W Dimmer Switch, 1000W 16 Rotary Dimmer	No.	\$ 39.00
B3/2.20	2000W Dimmer Switch	No.	\$ 50.00
B3/2.21	<b>Switch - Gold Color Type (Cover &amp; Switch)</b>		
B3/2.21.1	<u>6A 1 Gang to 3 Gang Switch</u>		
B3/2.21.1.1	1 Gang Switch Gold Plate	No.	\$ 25.00
B3/2.21.1.2	2 Gang Switch Gold Plate	No.	\$ 29.00
B3/2.21.1.3	3 Gang Switch Gold Plate	No.	\$ 33.00
B3/2.21.2	<u>6A 4 Gang to 5 Gang Switch</u>		
B3/2.21.2.1	Switch 20A Gold Plate	No.	\$ 40.00
B3/2.21.2.3	20A Water Heater c/w pilot Lamp Switch	No.	\$ 30.00
B3/2.21.3	<u>500W to 15000W Dimmer Switch</u>		
B3/2.21.3.1	500W Rotary Dimmer c/w Gold Plate	No.	\$ 73.00
B3/2.21.3.2	1500W Rotary Dimmer c/w Gold Plate	No.	\$ 94.00
B3/3.0	<b>SWITCH SOCKET OUTLET (APPROVED TYPE ONLY)</b>		
	<u>To supply and replace faulty part c/w connection and termination</u>		
B3/3.1	1x13A switch socket outlet	No.	\$ 5.20
B3/3.2	1 x 13A metalclad switch socket outlet	No.	\$ 13.00
B3/3.3	2 x 13A switch socket outlet	No.	\$ 9.75
B3/3.4	2 x 13A metalclad switch socket outlet	No.	\$ 20.00
B3/3.5	1 x 13A Weatherproof Switch socket Outlet	No.	\$ 36.00
B3/3.6	2 x 13A Weatherproof Switch Socket Outlet	No.	\$ 49.00
B3/3.7	1x15A switch socket outlet	No.	\$ 15.00
B3/3.8	1 x 15A metalclad switch socket outlet	No.	\$ 30.00
B3/3.9	20A double pole switch	No.	\$ 28.00
B3/3.10	20A metalclad switch socket outlet	No.	\$ 45.00
B3/3.11	20A water heater switch	No.	\$ 28.00
B3/3.12	13A Fuse Connection Unit	No.	\$ 25.00
B3/3.13	45A Cooker Control Unit	No.	\$ 100.00
B3/3.14	20A DP Isolator	No.	\$ 17.00



Item No.	Description	Unit	Rate
B3/3.15	32A DP Isolator	No.	\$ 22.00
B3/3.16	20A SPN Isolator	No.	\$ 85.00
B3/3.17	30A SPN Isolator	No.	\$ 150.00
B3/3.18	20A TPN Isolator	No.	\$ 150.00
B3/3.19	32A / 35A TPN Isolator	No.	\$ 200.00
B3/3.20	55A TPN Isolator	No.	\$ 300.00
B3/3.21	13A 3 Pin Plug Top	No.	\$ 5.00
B3/3.22	15A 3 Pin Plug Top	No.	\$ 5.00
B3/3.23	1G TV outlet	No.	\$ 5.00
B3/3.24	1G Telephone Outlet	No.	\$ 7.40
B3/3.25	1G Data Outlet Cat.6	No.	\$ 10.80
B3/3.26	Doorbell Switch	No.	\$ 4.80
B3/4.0	<b><u>GENERAL LIGHTING POINT &amp; POWER POINT</u></b>		
B3/4.1	<u>Supply, lay, terminate, testing and commissioning of lighting wiring point using 2 x 1.5mm<sup>2</sup> PVC cable + 1.5mm<sup>2</sup> PVC cable CPC in conduit / casing c/w switch</u>		
B3/4.1.01	One lighting point controlled by one lighting switch.	No.	\$ 45.00
B3/4.1.02	Each additional lighting point to above item.	No.	\$ 30.00
B3/4.1.03	One lighting point controlled by 2 nos. 2-way switches.	No.	\$ 55.00
B3/4.1.04	Each additional lighting point to above item.	No.	\$ 40.00
B3/4.2	Wiring Fan point using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing c/w 5A switch, fan hook when necessary	No.	\$ 45.00
B3/4.3	Wiring emergency lighting point using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing	No.	\$ 30.00
B3/4.4	Wiring Keluar Sign point using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing	No.	\$ 30.00
B3/4.5	Wiring Exhaust fan/wall fan using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing c/w 5A switch	No.	\$ 45.00
B3/4.6	Wiring heavy duty wall fan & exhaust fan using 3 x 2.5mm <sup>2</sup> PVC cable in PVC conduit / casing c/w 20A switch	No.	\$ 100.00
B3/4.7	Wiring indoor / outdoor floodlight point using 3 x 2.5mm <sup>2</sup> PVC cable in conduit / casing	No.	\$ 80.00
B3/4.8	Wiring high bay point using 3 x 2.5mm <sup>2</sup> PVC cable in conduit / casing	No.	\$ 100.00
B3/4.9	Wiring Lighting point with photocell using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing	No.	\$ 140.00
B3/4.10	Wiring Lighting point with timer using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing	No.	\$ 140.00
B3/4.11	Wiring power point using 3 x 2.5mm <sup>2</sup> PVC cable in PVC conduit / casing c/w 1 x 13A S.S.O	No.	\$ 70.00
B3/4.12	Wiring power point using 3 x 2.5mm <sup>2</sup> PVC cable in PVC conduit / casing c/w 2 x 13A S.S.O	No.	\$ 80.00
B3/4.13	Wiring a/c point using 3 x 4mm <sup>2</sup> PVC cable in PVC conduit / casing c/w 20A DP switch	No.	\$ 200.00
B3/4.14	Wiring Cooker Point using 3 x 6mm <sup>2</sup> PVC cable in PVC conduit / casing c/w cooker unit	No.	\$ 300.00
B3/4.15	Wiring 20A SPN isolator point using 3 x 4mm <sup>2</sup> PVC cable in PVC conduit / casing c/w 20A SPN isolator	No.	\$ 300.00
B3/4.16	Wiring 32A/35A TPN isolator point using 5 x 4mm <sup>2</sup> PVC cable in PVC conduit / casing c/w 30A/35A TPN isolator	No.	\$ 450.00
B3/4.17	Wiring 32A SPN isolator point using 3 x 6mm <sup>2</sup> PVC cable in PVC conduit / casing c/w 32A SPN isolator	No.	\$ 400.00
B3/4.18	Wiring power point using 3 x 2.5mm <sup>2</sup> PVC cable in conduit / casing c/w 1 x 13A S.S.O weatherproof	No.	\$ 200.00



Item No.	Description	Unit	Rate
B3/4.19	Wiring power point using 3 x 2.5mm <sup>2</sup> PVC cable in conduit / casing c/w 2 x 13A S.S.O weatherproof	No.	\$ 230.00
B3/4.20	Wiring lighting point using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing c/w 5A weatherproof switch	No.	\$ 120.00
B3/4.21	Wiring lighting point using 3 x 1.5mm <sup>2</sup> PVC cable in conduit / casing c/w 2Gang- 5A weatherproof switch	No.	\$ 160.00
B3/4.22	Wiring water heater point using 3 x 4mm <sup>2</sup> PVC cable in conduit/casing c/w heater switch and 13A fuse connection unit.	No.	\$ 230.00
B3/4.23	Wiring water pump point using 3 x 2.5mm <sup>2</sup> PVC cable in conduit / casing c/w 20 DP switch	No.	\$ 200.00
B3/4.24	Wiring water pump point using 3 x 2.5mm <sup>2</sup> PVC cable in conduit / casing c/w 20A SPN weatherproof isolator	No.	\$ 250.00
B3/4.25	Wiring 3 phase water pump using 5 x 6mm <sup>2</sup> PVC cable in conduit / casing c/w 35A TPN weatherproof isolator	No.	\$ 600.00
B3/4.26	Wiring telephone point c/w 2 pair cat-5 cable in PVC conduit / casing c/w telephone outlet.	No.	\$ 120.00
B3/4.27	Wiring telephone point c/w 4 pair cat-5 cable in PVC conduit / casing c/w telephone outlet.	No.	\$ 170.00
B3/4.28	Wiring telephone point c/w 6 pair cat-5 cable in PVC conduit / casing c/w telephone outlet.	No.	\$ 200.00
B3/4.29	Wiring TV point c/w RG59 TV Cable in PVC conduit/casing c/w TV outlet	No.	\$ 200.00
B3/4.30	Wiring bell	No.	\$ 45.00
B3/4.31	Wiring emergency button using 2 x 1.5mm <sup>2</sup> PVC cable in PVC casing / conduit c/w emergency push button, contactor and other necessary accessories	No.	\$ 300.00
B3/4.32	Supply and installation of 2C/2.00mm <sup>2</sup> Twin Flat waterproof Cable for decorative lightings	Mtr	\$ 4.00
B3/4.33	<u>To supply and install PVC Insulated Cable for the following sizes:</u>		
B3/4.33.1	1C/1.5mm <sup>2</sup>	Mtr	\$ 1.00
B3/4.33.2	1C/2.5mm <sup>2</sup>	Mtr	\$ 1.50
B3/4.33.3	1C/4.0mm <sup>2</sup>	Mtr	\$ 2.00
B3/4.33.4	1C/6.0mm <sup>2</sup>	Mtr	\$ 2.50
B3/5.0	<b><u>TO CHECK, SERVICE AND REPLACE FAULTY PART ACCESSORIES OF LIGHT FITTING / FAN / OTHERS</u></b>		
B3/5.1	<u>Clear ordinary 240V inside frosted or incandescent lamp with E27 or B22 and candle lamp.</u>		
B3/5.1.1	15W	No.	\$ 6.00
B3/5.1.2	25W	No.	\$ 6.00
B3/5.1.3	40W	No.	\$ 6.00
B3/5.1.4	60W	No.	\$ 6.00
B3/5.1.5	75W	No.	\$ 8.00
B3/5.1.6	100W	No.	\$ 8.00
B3/5.2	<u>Clear ordinary 240V inside frosted or incandescent lamp with E14 base candle lamp</u>		
B3/5.2.1	15W	No.	\$ 10.00
B3/5.2.2	25W	No.	\$ 10.00
B3/5.2.3	40W	No.	\$ 10.00
B3/5.3	<u>12V halogen bulb with 2 pin cable</u>		
B3/5.3.1	20W	No.	\$ 4.50
B3/5.3.2	50W	No.	\$ 12.00
B3/5.4	<u>Colour bulbs 240V 50Hz with E27 or B22 Base</u>		
B3/5.4.1	5W	No.	\$ 3.00
B3/5.4.2	15W	No.	\$ 4.00



Item No.	Description	Unit	Rate
B3/5.5	<u>LED Colour bulb with E27 or B22 base</u>		
B3/5.5.1	1W - 3W	No.	\$ 2.50
B3/5.5.2	4W - 5W	No.	\$ 5.00
B3/5.5.3	6W - 10W	No.	\$ 7.00
B3/5.6	<u>LED light bulb c/w necessary accessories and modification if require</u>		
B3/5.6.1	1W LED bulb with E27 or B22 base	No.	\$ 1.80
B3/5.6.2	3W-4W LED bulb with E27 or B22 base	No.	\$ 3.00
B3/5.6.3	8W LED bulb with E27 or B22 base	No.	\$ 8.00
B3/5.6.4	8W 2 pin LED bulb	No.	\$ 8.00
B3/5.6.5	15W 2 pin LED bulb	No.	\$ 15.00
B3/5.6.6	9W LED bulb (any type tube / stick etc)	No.	\$ 10.00
B3/5.6.7	10W LED bulb (any type tube / stick etc)	No.	\$ 11.00
B3/5.6.8	12W LED bulb (any type tube / stick etc)	No.	\$ 15.00
B3/5.6.9	15W - 20W LED bulb (any type tube / stick etc)	No.	\$ 25.00
B3/5.6.10	23W - 25W LED bulb (any type tube / stick etc)	No.	\$ 30.00
B3/5.7	<u>Reflector lamp 240V R50 type with E14 base</u>		
B3/5.7.1	25W	No.	\$ 11.00
B3/5.7.2	40W	No.	\$ 12.00
B3/5.8	<u>R63 type with E27 or B22 base</u>		
B3/5.8.1	40W	No.	\$ 10.00
B3/5.8.2	60W	No.	\$ 10.00
B3/5.8.3	75W	No.	\$ 11.00
B3/5.8.4	100W	No.	\$ 12.50
B3/5.9	<u>PAR 38 spot and pressed glass reflector lamp 240V 50Hz with E27 base</u>		
B3/5.9.1	13W	No.	\$ 19.00
B3/5.9.2	60W	No.	\$ 28.00
B3/5.9.3	80W	No.	\$ 60.00
B3/5.9.4	120W	No.	\$ 70.00
B3/5.10	<u>Tungsten double end type halogen lamp 240V</u>		
B3/5.10.1	70W	No.	\$ 32.00
B3/5.10.2	100W	No.	\$ 35.00
B3/5.10.3	150W	No.	\$ 45.00
B3/5.10.4	300W	No.	\$ 55.00
B3/5.11	<u>2 Pin PLC daylight / warm white compact lamp</u>		
B3/5.11.1	9W	No.	\$ 15.00
B3/5.11.2	11W	No.	\$ 15.00
B3/5.11.3	13W	No.	\$ 16.00
B3/5.11.4	18W	No.	\$ 20.00
B3/5.11.5	26W	No.	\$ 30.00
B3/5.12	<u>PLC daylight / warm white compact lamp with 4 pin base</u>		
B3/5.12.1	13W	No.	\$ 15.00
B3/5.12.2	18W	No.	\$ 20.00
B3/5.12.3	26W	No.	\$ 30.00
B3/5.12.4	42W	No.	\$ 35.00
B3/5.13	<u>Fluorescent tube 240v 50HZ</u>		
B3/5.13.1	18W	No.	\$ 9.00
B3/5.13.2	36W	No.	\$ 9.00
B3/5.13.3	65W	No.	\$ 10.00
B3/5.14	<u>LED fluorescent tube 240V 50HZ</u>		
B3/5.14.1	8W-9W	No.	\$ 23.00
B3/5.14.2	13 -18W	No.	\$ 25.00
B3/5.15	18-65W fluorescent S10 starter	No.	\$ 3.50



Item No.	Description	Unit	Rate
B3/5.16	18-65W fluorescent ballast 240V 50HZ	No.	\$ 15.00
B3/5.17	T5 14 - 28W fluorescent tube	No.	\$ 20.00
B3/5.18	T5 14 - 28W fluorescent ballast	No.	\$ 35.00
B3/5.19	Electronic Transformer for halogen lamp input : 240V 50HZ/60HZ Output : 12V 20-50W	No.	\$ 50.00
B3/5.20	<u>PLC 240V 50HZ ballast</u>		
B3/5.20.1	11W	No.	\$ 10.00
B3/5.20.2	13W	No.	\$ 12.00
B3/5.20.3	18W	No.	\$ 15.00
B3/5.20.4	26W	No.	\$ 20.00
B3/5.21	Fluorescent lamp holder for compact, lamp 240V , 50 HZ	No.	\$ 10.00
B3/5.22	Fluorescent starter holder for compact, lamp 240V , 50 HZ	No.	\$ 10.00
B3/5.23	E27 lamp holder base	No.	\$ 10.00
B3/5.24	E40 lamp holder base	No.	\$ 20.00
B3/5.25	B22 lamp holder base	No.	\$ 10.00
B3/5.26	2 pin PLC holder	No.	\$ 10.00
B3/5.27	4 pin PLC holder	No.	\$ 12.00
B3/5.28	2 Pin 50W halogen holder	No.	\$ 10.00
B3/5.29	<u>E27/B22 energy effective prismatic SL lamp 240V 50HZ</u>		
B3/5.29.1	9W	No.	\$ 30.00
B3/5.29.2	13W	No.	\$ 40.00
B3/5.29.3	18W	No.	\$ 45.00
B3/5.29.4	26W	No.	\$ 50.00
B3/5.30	<u>E27/B22 energy saver bulb cool daylight / warm white lamp 240V 50HZ</u>		
B3/5.30.1	9W	No.	\$ 20.00
B3/5.30.2	11W	No.	\$ 20.00
B3/5.30.3	13W	No.	\$ 20.00
B3/5.30.4	18W	No.	\$ 30.00
B3/5.30.5	23W	No.	\$ 35.00
B3/5.30.6	35W	No.	\$ 50.00
B3/5.30.7	55W	No.	\$ 60.00
B3/5.31	16W 2D lamp with 2 pin cap and built in starter switch	No.	\$ 30.00
B3/5.32	28W 2D with 4 pin cap	No.	\$ 35.00
B3/5.33	Ballast for 16W 2D lamp	No.	\$ 18.00
B3/5.34	Ballast for 28W 2D lamp	No.	\$ 23.00
B3/5.35	Capacitor for 16W/28W 2D lamp	No.	\$ 18.00
B3/5.36	Starter for 16/28W 2D lamp	No.	\$ 8.00
B3/5.37	Lamp Holder for 16/28W 2D lamp	No.	\$ 15.00



Item No.	Description	Unit	Rate
B3/5.38	<u>Circular fluorescent tube</u>		
B3/5.38.1	22W	No.	\$ 18.00
B3/5.38.2	32W	No.	\$ 25.00
B3/5.38.3	40W	No.	\$ 25.00
B3/5.39	Circular fluorescent tube holder	No.	\$ 12.00
B3/5.40	<u>High pressure SON/T lamp 240V, 50HZ</u>		
B3/5.40.1	70W	No.	\$ 48.00
B3/5.40.2	150W	No.	\$ 55.00
B3/5.40.3	250W	No.	\$ 70.00
B3/5.40.4	400W	No.	\$ 85.00
B3/5.41	<u>Metal halide lamp 240V, 50HZ</u>		
B3/5.41.1	70W	No.	\$ 45.00
B3/5.41.2	150W	No.	\$ 60.00
B3/5.41.3	250W	No.	\$ 70.00
B3/5.41.4	400W	No.	\$ 80.00
B3/5.41.5	1000W	No.	\$ 250.00
B3/5.41.6	2000W	No.	\$ 350.00
B3/5.42	<u>High mercury lamp 240V, 50HZ</u>		
B3/5.42.1	150W	No.	\$ 60.00
B3/5.42.2	250W	No.	\$ 80.00
B3/5.42.3	100W	No.	\$ 100.00
B3/5.43	<u>Ignitor for high pressure lamp and metal halide lamp</u>		
B3/5.43.1	70W - 400W	No.	\$ 28.00
B3/5.43.2	1000W	No.	\$ 85.00
B3/5.43.3	2000W	No.	\$ 150.00
B3/5.44	<u>Ballast for high pressure lamp</u>		
B3/5.44.1	70W	No.	\$ 50.00
B3/5.44.2	150W	No.	\$ 60.00
B3/5.44.3	250W	No.	\$ 90.00
B3/5.44.4	400W	No.	\$ 100.00
B3/5.45	<u>Ballast for metal halide lamp</u>		
B3/5.45.1	70W	No.	\$ 50.00
B3/5.45.2	150W	No.	\$ 60.00
B3/5.45.3	250W	No.	\$ 90.00
B3/5.45.4	400W	No.	\$ 100.00
B3/5.45.5	1000W	No.	\$ 250.00
B3/5.45.6	2000W	No.	\$ 350.00
B3/5.46	15UF Capacitor for 70W floodlight	No.	\$ 38.00
B3/5.47	20UF Capacitor for 150W floodlight	No.	\$ 45.00
B3/5.48	25UF Capacitor for 250W floodlight	No.	\$ 48.00
B3/5.49	32UF Capacitor for 400W floodlight	No.	\$ 50.00
B3/5.50	50 - 100UF Capacitor for 1000W floodlight	No.	\$ 100.00
B3/5.51	50-100UF Capacitor for 2000W floodlight	No.	\$ 200.00
B3/5.52	1 tube electronic ballast	No.	\$ 35.00
B3/5.53	2 tube electronic ballast	No.	\$ 50.00
B3/5.54	3 tube electronic ballast	No.	\$ 70.00



Item No.	Description	Unit	Rate
B3/5.55	4 tube electronic ballast	No.	\$ 100.00
B3/5.56	1.8UF - 3UF fan capacitor	No.	\$ 10.00
B3/5.57	<u>Decorative &amp; Other Type of Bulb</u>		
B3/5.57.1	LED twin Rope Light x 100 metres	Roll	\$ 260.00
B3/5.57.2	LED twin Rope light per meter	Mtr	\$ 3.00
B3/6.0	<u>To supply and install PVC/SWA/PVC , XLPE/SWA/PVC Cable for the following sizes</u>		
B3/6.1	2C/1.5mm <sup>2</sup>	Mtr	\$ 10.00
B3/6.2	2C/2.5mm <sup>2</sup>	Mtr	\$ 15.00
B3/6.3	2C/4mm <sup>2</sup>	Mtr	\$ 18.00
B3/6.4	2C/6mm <sup>2</sup>	Mtr	\$ 20.00
B3/6.5	2C/10mm <sup>2</sup>	Mtr	\$ 22.00
B3/6.6	2C/16mm <sup>2</sup>	Mtr	\$ 25.00
B3/6.7	2C/25mm <sup>2</sup>	Mtr	\$ 30.00
B3/6.8	2C/35mm <sup>2</sup>	Mtr	\$ 33.00
B3/6.9	4C/2.5mm <sup>2</sup>	Mtr	\$ 16.00
B3/6.1	4C/4mm <sup>2</sup>	Mtr	\$ 19.00
B3/6.11	4C/6mm <sup>2</sup>	Mtr	\$ 21.00
B3/6.12	4C/10mm <sup>2</sup>	Mtr	\$ 27.00
B3/6.13	4C/16mm <sup>2</sup>	Mtr	\$ 36.00
B3/6.14	4C/25mm <sup>2</sup>	Mtr	\$ 48.00
B3/6.15	4C/35mm <sup>2</sup>	Mtr	\$ 60.00
B3/6.16	4C/50mm <sup>2</sup>	Mtr	\$ 80.00
B3/6.17	4C/70mm <sup>2</sup>	Mtr	\$ 90.00
B3/6.18	4C/95mm <sup>2</sup>	Mtr	\$ 120.00
B3/6.19	4C/120mm <sup>2</sup>	Mtr	\$ 145.00
B3/6.20	4C/150mm <sup>2</sup>	Mtr	\$ 170.00
B3/6.21	4C/185mm <sup>2</sup>	Mtr	\$ 220.00
B3/6.22	4C/240mm <sup>2</sup>	Mtr	\$ 295.00
B3/6.23	1C/300mm <sup>2</sup>	Mtr	\$ 115.00
B3/6.24	1C/400mm <sup>2</sup>	Mtr	\$ 160.00
B3/6.25	1C/500mm <sup>2</sup>	Mtr	\$ 200.00
B3/6.26	<u>To supply and install XLPE/AWA/PVC cable for the following sizes:</u>		
B3/6.26.1	1C/300mm <sup>2</sup>	Mtr	\$ 30.00
B3/6.26.2	1C/400m <sup>2</sup>	Mtr	\$ 180.00
B3/6.26.3	1C/500m <sup>2</sup>	Mtr	\$ 220.00
B3/6.27	<u>To supply and install LT straight through joint PVC or XLPE armoured cable for the following sizes:-</u>		
B3/6.27.1	Up to 25mm <sup>2</sup> /2C	No.	\$ 150.00
B3/6.27.2	Up to 25mm <sup>2</sup> /4C	No.	\$ 180.00
B3/6.27.3	35 to 70mm <sup>2</sup> /4C	No.	\$ 250.00
B3/6.27.4	95 to 150mm <sup>2</sup> /4C	No.	\$ 800.00
B3/6.27.5	185 to 300mm <sup>2</sup> /4C	No.	\$ 1,000.00
B3/6.27.6	300 to 500mm <sup>2</sup> /1C	No.	\$ 1,300.00
B3/6.28	To hack and break existing pavement c/w encased mass concrete surround	Mtr	\$ 120.00
B3/6.29	To cut and digging existing pavement	Mtr	\$ 100.00
B3/6.30	<u>To Provide UPVC pipe sleeves</u>		
B3/6.30.1	50mm <sup>2</sup> dia	Mtr	\$ 40.00
B3/6.30.2	100mm <sup>2</sup> dia. Ditto	Mtr	\$ 78.00
B3/6.30.3	150mm <sup>2</sup> dia. Ditto	Mtr	\$ 90.00



Item No.	Description	Unit	Rate
B3/6.31	Excavation of cable trench approx. 750mm wide x 750mm deep of soft ground c/w backfilling and making good	Mtr	\$ 15.00
B3/6.32.4	2 x 1C/35mm <sup>2</sup> + 25mm <sup>2</sup> ECC cable	Mtr	\$ 30.00
B3/6.32.5	2 x 1C/50mm <sup>2</sup> + 35mm <sup>2</sup> ECC cable	Mtr	\$ 40.00
B3/6.32.6	4 x 1C/10mm <sup>2</sup> + 10mm <sup>2</sup> ECC cable	Mtr	\$ 30.00
B3/6.32.7	4 x 1C/16mm <sup>2</sup> + 10mm <sup>2</sup> ECC cable	Mtr	\$ 40.00
B3/6.32.8	4 x 1C/25mm <sup>2</sup> + 16mm <sup>2</sup> ECC cable	Mtr	\$ 52.00
B3/6.32.9	4 x 1C/35mm <sup>2</sup> + 25mm <sup>2</sup> ECC cable	Mtr	\$ 64.00
B3/6.32.10	4 x 1C/50mm <sup>2</sup> + 35mm <sup>2</sup> ECC cable	Mtr	\$ 85.00
B3/6.32.11	4 x 1C/70mm <sup>2</sup> + 50mm <sup>2</sup> ECC cable	Mtr	\$ 95.00
B3/6.32.12	4 x 1C/95mm <sup>2</sup> + 70mm <sup>2</sup> ECC cable	Mtr	\$ 130.00
B3/6.32.13	4 x 1C/35mm <sup>2</sup> + 95mm <sup>2</sup> ECC cable	Mtr	\$ 150.00
B3/6.33	<u>Supply and installation of PVC Insulated (GREEN) Earth Wire</u>		
B3/6.33.1	1 x 16mm <sup>2</sup>	Mtr	\$ 10.00
B3/6.33.2	1 x 25mm <sup>2</sup>	Mtr	\$ 15.00
B3/6.33.3	1 x 35mm <sup>2</sup>	Mtr	\$ 20.00
B3/6.33.4	1 x 50mm <sup>2</sup>	Mtr	\$ 25.00
B3/6.33.5	1 x 70mm <sup>2</sup>	Mtr	\$ 35.00
B3/6.33.6	1 x 95mm <sup>2</sup>	Mtr	\$ 45.00
B3/6.33.7	1 x 120mm <sup>2</sup>	Mtr	\$ 60.00
B3/6.34	<u>Supply and installation of metal trunking / PVC trunking c/w bracket support</u>		
B3/6.34.1	50mm x 25mm	Mtr	\$ 25.00
B3/6.34.2	50mm x 50mm	Mtr	\$ 26.00
B3/6.34.3	75mm x 50mm	Mtr	\$ 30.00
B3/6.34.4	100mm x 50mm	Mtr	\$ 35.00
B3/6.34.5	100mm x 75mm	Mtr	\$ 40.00
B3/6.34.6	100mm x 100mm	Mtr	\$ 48.00
B3/6.34.7	75mm x 150mm	Mtr	\$ 60.00
B3/6.35	<u>Supply and installation of cable tray c/w tray earth link and other accessories c/w bracket support</u>		
B3/6.35.1	50 mm	Mtr	\$ 10.00
B3/6.35.2	75 mm	Mtr	\$ 18.00
B3/6.35.3	100 mm	Mtr	\$ 25.00
B3/6.35.4	150 mm	Mtr	\$ 33.00
B3/6.35.5	200 mm	Mtr	\$ 40.00
B3/6.35.6	250 mm	Mtr	\$ 52.00
B3/6.36	Disconnect and dismantle and remove existing, underground cable trunking, cable tray	Mtr	\$ 15.00
B3/6.37	To check, rectify, mega faulty of cable	Lot	\$ 450.00
B3/7.0	<u>Lightning Protection System</u>		
B3/7.1	Supply and install main 'Earth' electrode 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.		
B3/7.1.1	16mm OD x 1800mm(L)	Lot	\$ 400.00
B3/7.1.2	25mm OD x 1800mm(L)	Lot	\$ 450.00
B3/7.2	Supply and install UPVC cover plate flat with embossed raised lettering c/w interlocking device 'DANGER LV CABLE'	No.	\$ 2.80
B3/7.3	<u>Supply and install of Air Terminal - annealed copper rod of tapered tip</u>		
B3/7.3.1	Length: 300mm	No.	\$ 165.00
B3/7.3.2	Length: 500mm	No.	\$ 185.00
B3/7.4	Supply and install Air Terminal Base	No.	\$ 45.00
B3/7.5	Supply and install Tape Saddle	No.	\$ 5.00



Item No.	Description	Unit	Rate
B3/7.6	Supply and install Circular Conductor Saddle	No.	\$ 6.00
B3/7.7	Supply and install Circular Conductor Saddle	No.	\$ 6.00
B3/7.8	Supply and install Tape Clip	No.	\$ 5.00
B3/7.9	Supply and install Square Tape Joint	No.	\$ 6.00
B3/7.10	To supply and install 25mm(W) x 3mm(T) Copper Tape surface-run on wall or roof c/w gunmetal DC clips at intervals not exceeding 500mm and all mounting accessories.	m.	\$ 32.00
B3/7.11	To supply and install 25mm(W) x 3mm(T) Copper Tape laid in conduit surface-run on wall.	m.	\$ 35.00
B3/7.12	To supply and install 25mm(W) x 3mm(T) Copper Tape laid in conduit concealed in wall or column.	m.	\$ 36.00
B3/7.13	To supply and install 25mm(W) x 3mm(T) Copper Tape laid underground interconnecting earth pits.	m.	\$ 32.00
B3/7.14	To supply and install Round Test Clamp	No.	\$ 38.00
B3/7.15	Earth test joint clamp in wall recessed c/w oblong clamp, cover plate, label and high UV resistance junction box.	No.	\$ 59.00
B3/7.16	<u>To supply and install Round Test Clamp Earth Inspection Chamber c/w Cover with Label.</u>	No.	\$ 98.00
B3/7.16.1	Hot-Dipped Galvanized Type	No.	\$ 128.00
B3/7.16.2	Concrete Type	No.	\$ 75.00
B3/7.16.3	Polymer Type	No.	\$ 75.00
B3/7.17	<u>To supply and install Earthing Clamps</u>	No.	\$ 35.00
B3/7.17.1	Rod to Tape Clamp	No.	\$ 35.00
B3/7.17.2	A-Clamp	No.	\$ 35.00
B3/7.18	To supply and install Ground Rod to Cable Clamp	No.	\$ 35.00
B3/7.19	To supply and install U-Clamp Connector	No.	\$ 35.00
B3/7.20	<u>To supply and install Earth Rods</u>	No.	\$ 58.00
B3/7.20.1	16mm OD x 1800mm(L)	No.	\$ 75.00
B3/7.20.2	25mm OD x 1800mm(L)	No.	\$ 75.00
B3/7.21	<u>To supply and install Coupling</u>	No.	\$ 25.00
B3/7.21.1	16mm OD	No.	\$ 35.00
B3/7.21.2	25mm OD	No.	\$ 35.00
B3/7.22	To join copper conductors via Cadweld	No.	\$ 162.00
B3/8.0	<u>Components, Parts and Accessories for Main Switchboard, Sub-Switchboard and Distribution Board</u>		
B3/8.1	<u>Air Circuit Breaker (ACB)</u>		
	<u>Supply, install, testing and commissioning of ACB.</u>		
B3/8.1.1	800 Amp TPN	No.	\$ 8,400.00
B3/8.1.2	1000 Amp TPN	No.	\$ 8,950.00
B3/8.1.3	1200 Amp TPN	No.	\$ 9,850.00
B3/8.1.4	1600 Amp TPN	No.	\$ 11,500.00
B3/8.1.5	25000 Amp TPN	No.	\$ 23,800.00
B3/8.1.6	800 Amp 4P	No.	\$ 8,800.00
B3/8.1.7	1000 Amp 4P	No.	\$ 9,350.00
B3/8.1.8	1200 Amp 4P	No.	\$ 10,350.00
B3/8.1.9	1600 Amp 4P	No.	\$ 12,500.00
B3/8.1.10	25000 Amp T4P	No.	\$ 24,900.00



Item No.	Description	Unit	Rate
B3/8.2	<b><u>Moulded Case Circuit Breaker (MCCB)</u></b>		
	<u>Supply, install, testing and commissioning of MCCB Type B / Type C</u>		
B3/8.2.1	40 Amp SP	No.	\$ 150.00
B3/8.2.2	63 Amp SP	No.	\$ 160.00
B3/8.2.3	80 Amp SP	No.	\$ 180.00
B3/8.2.4	100 Amp SP	No.	\$ 200.00
B3/8.2.5	40 Amp SPN	No.	\$ 160.00
B3/8.2.6	63 Amp SPN	No.	\$ 170.00
B3/8.2.7	80 Amp SPN	No.	\$ 190.00
B3/8.2.8	100 Amp SPN	No.	\$ 210.00
B3/8.2.9	40 Amp DP	No.	\$ 180.00
B3/8.2.10	63 Amp DP	No.	\$ 190.00
B3/8.2.11	80 Amp DP	No.	\$ 200.00
B3/8.2.12	100 Amp DP	No.	\$ 220.00
B3/8.2.13	40 Amp TP	No.	\$ 200.00
B3/8.2.14	63 Amp TP	No.	\$ 230.00
B3/8.2.15	80 Amp TP	No.	\$ 260.00
B3/8.2.16	100 Amp TP	No.	\$ 300.00
B3/8.2.17	125 Amp TP	No.	\$ 330.00
B3/8.2.18	150 Amp TP	No.	\$ 380.00
B3/8.2.19	250 Amp TP	No.	\$ 420.00
B3/8.2.20	350 Amp TP	No.	\$ 680.00
B3/8.2.21	400 Amp TP	No.	\$ 880.00
B3/8.2.22	600 Amp TP	No.	\$ 1,000.00
B3/8.2.23	800 Amp TP	No.	\$ 1,200.00
B3/8.2.24	40 Amp TPN	No.	\$ 220.00
B3/8.2.25	63 Amp TPN	No.	\$ 250.00
B3/8.2.26	80 Amp TPN	No.	\$ 280.00
B3/8.2.27	100 Amp TPN	No.	\$ 320.00
B3/8.2.28	125 Amp TPN	No.	\$ 350.00
B3/8.2.29	150 Amp TPN	No.	\$ 400.00
B3/8.2.30	250 Amp TPN	No.	\$ 450.00
B3/8.2.31	350 Amp TPN	No.	\$ 720.00
B3/8.2.32	400 Amp TPN	No.	\$ 920.00
B3/8.2.33	600 Amp TPN	No.	\$ 1,100.00
B3/8.2.34	800 Amp TPN	No.	\$ 1,300.00
B3/8.2.35	40 Amp 4P	No.	\$ 250.00
B3/8.2.36	63 Amp 4P	No.	\$ 280.00
B3/8.2.37	80 Amp 4P	No.	\$ 320.00
B3/8.2.38	100 Amp 4P	No.	\$ 350.00
B3/8.2.39	125 Amp 4P	No.	\$ 370.00
B3/8.2.40	150 Amp 4P	No.	\$ 430.00
B3/8.2.41	250 Amp 4P	No.	\$ 495.00
B3/8.2.42	350 Amp 4P	No.	\$ 780.00
B3/8.2.43	400 Amp 4P	No.	\$ 980.00
B3/8.2.44	600 Amp 4P	No.	\$ 1,200.00
B3/8.2.45	800 Amp 4P	No.	\$ 1,400.00
B3/8.3	<b><u>Residual Current Devices (RCD)</u></b>		
	<u>Supply, install, testing and commissioning of RCD</u>		
B3/8.3.1	32 Amp DP 100mA	No.	\$ 72.00
B3/8.3.2	40 Amp DP 100mA	No.	\$ 72.00
B3/8.3.3	63 Amp DP 100mA	No.	\$ 96.00
B3/8.3.4	80 Amp DP 100mA	No.	\$ 120.00
B3/8.3.5	100 Amp DP 100mA	No.	\$ 156.00



Item No.	Description	Unit	Rate
B3/8.3.6	32 Amp DP 30mA	No.	\$ 72.00
B3/8.3.7	40 Amp DP 30mA	No.	\$ 72.00
B3/8.3.8	63 Amp DP 30mA	No.	\$ 96.00
B3/8.3.9	80 Amp DP 30mA	No.	\$ 120.00
B3/8.3.10	100 Amp DP 30mA	No.	\$ 156.00
B3/8.3.11	32 Amp 4P 100mA	No.	\$ 96.00
B3/8.3.12	40 Amp 4P 100mA	No.	\$ 96.00
B3/8.3.13	63 Amp 4P 100mA	No.	\$ 120.00
B3/8.3.14	80 Amp 4P 100mA	No.	\$ 144.00
B3/8.3.15	100 Amp 4P 100mA	No.	\$ 180.00
B3/8.3.16	32 Amp 4P 30mA	No.	\$ 96.00
B3/8.3.17	40 Amp 4P 30mA	No.	\$ 96.00
B3/8.3.18	63 Amp 4P 30mA	No.	\$ 120.00
B3/8.3.19	80 Amp 4P 30mA	No.	\$ 144.00
B3/8.3.20	100 Amp 4P 30mA	No.	\$ 180.00
B3/8.4	<b>Automatic Transfer Switches (ATS)</b>		
	<u>Supply, install, testing and commissioning of the following automatic transfer switch c/w manual bypass.</u>		
B3/8.4.1	63 Amp 4P	No.	\$ 3,024.00
B3/8.4.2	100 Amp 4P	No.	\$ 3,024.00
B3/8.4.3	125 Amp 4P	No.	\$ 3,024.00
B3/8.4.4	150 Amp 4P	No.	\$ 3,300.00
B3/8.4.5	250 Amp 4P	No.	\$ 4,116.00
B3/8.4.6	350 Amp 4P	No.	\$ 6,924.00
B3/8.4.7	400 Amp 4P	No.	\$ 6,924.00
B3/8.4.8	600 Amp 4P	No.	\$ 8,160.00
B3/8.4.9	800 Amp 4P	No.	\$ 9,264.00
B3/8.4.10	1000 Amp 4P	No.	\$ 10,236.00
B3/8.4.11	1200 Amp 4P	No.	\$ 10,236.00
B3/8.4.12	1600 Amp 4P	No.	\$ 11,226.00
B3/8.5	<b>Earth Leakage Relays (ELR)</b>		
	<u>Supply, install, testing and commissioning of the following adjustable electronic earth leakage relay c/w zero sequence current transformer (ZCT) and all necessary wiring.</u>		
B3/8.5.1	For 100 Amp TPN / 4P circuit breaker	No.	\$ 420.00
B3/8.5.2	For 125 Amp TPN / 4P circuit breaker	No.	\$ 420.00
B3/8.5.3	For 150 Amp TPN / 4P circuit breaker	No.	\$ 420.00
B3/8.5.4	For 250 Amp TPN / 4P circuit breaker	No.	\$ 576.00
B3/8.5.5	For 350 Amp TPN / 4P circuit breaker	No.	\$ 816.00
B3/8.6	<u>Supply, install, testing and commissioning of the following zero sequence current transformer (ZCT) for ELR including all necessary wiring.</u>		
B3/8.6.1	ZCT Inner Diameter: 40mm	No.	\$ 660.00
B3/8.6.2	ZCT Inner Diameter: 60mm	No.	\$ 780.00
B3/8.6.3	ZCT Inner Diameter: 80mm	No.	\$ 900.00
B3/8.6.4	ZCT Inner Diameter: 120mm	No.	\$ 1,140.00
B3/8.6.5	ZCT Inner Diameter: 160mm	No.	\$ 1,380.00
B3/8.6.6	ZCT Inner Diameter: 210mm	No.	\$ 1,620.00
B3/8.6.7	ZCT Inner Diameter: 300mm	No.	\$ 2,388.00
B3/8.7	<b>Earth Fault Relays (EFR)</b>		
	<u>Supply, install, testing and commissioning of the following earth fault relay c/w current transformers and all necessary wiring.</u>		
B3/8.7.1	For 400 Amp TPN / 4P circuit breaker	No.	\$ 660.00
B3/8.7.2	For 600 Amp TPN / 4P circuit breaker	No.	\$ 780.00
B3/8.7.3	For 800 Amp TPN / 4P circuit breaker	No.	\$ 900.00
B3/8.7.4	For 1000 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.7.5	For 1200 Amp TPN / 4P circuit breaker	No.	\$ 1,380.00



Item No.	Description	Unit	Rate
B3/8.7.6	For 1600 Amp TPN / 4P circuit breaker	No.	\$ 1,620.00
B3/8.7.7	For 2500 Amp TPN / 4P circuit breaker	No.	\$ 2,388.00
B3/8.8	<b><u>Overcurrent Relays (OCR)</u></b>		
	<u>Supply, install, testing and commissioning of the following overcurrent relay c/w current transformers and all necessary wiring.</u>		
B3/8.8.1	For 400 Amp TPN / 4P circuit breaker	No.	\$ 900.00
B3/8.8.2	For 600 Amp TPN / 4P circuit breaker	No.	\$ 1,020.00
B3/8.8.3	For 800 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.8.4	For 1000 Amp TPN / 4P circuit breaker	No.	\$ 1,380.00
B3/8.8.5	For 1200 Amp TPN / 4P circuit breaker	No.	\$ 1,620.00
B3/8.8.6	For 1600 Amp TPN / 4P circuit breaker	No.	\$ 1,860.00
B3/8.8.7	For 2500 Amp TPN / 4P circuit breaker	No.	\$ 2,628.00
B3/8.9	<b><u>Digital Power Meters (DPM)</u></b>		
	<u>Supply, install, testing and commissioning of the following digital power meter c/w current transformers, fuses / MCBs and all necessary wiring.</u>		
B3/8.9.1	For 100 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.9.2	For 125 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.9.3	For 150 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.9.4	For 250 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.9.5	For 350 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.9.6	For 400 Amp TPN / 4P circuit breaker	No.	\$ 1,140.00
B3/8.9.7	For 600 Amp TPN / 4P circuit breaker	No.	\$ 1,260.00
B3/8.9.8	For 800 Amp TPN / 4P circuit breaker	No.	\$ 1,380.00
B3/8.9.9	For 1000 Amp TPN / 4P circuit breaker	No.	\$ 1,620.00
B3/8.9.10	For 1200 Amp TPN / 4P circuit breaker	No.	\$ 1,860.00
B3/8.9.11	For 1600 Amp TPN / 4P circuit breaker	No.	\$ 2,100.00
B3/8.9.12	For 2500 Amp TPN / 4P circuit breaker	No.	\$ 2,868.00
B3/8.10	Supply, install, testing and commissioning of 0Vac - 500Vac Analogue Panel Voltmeter.	No.	\$ 96.00
B3/8.11	<b><u>Supply, install, testing and commissioning of Analogue Panel Ammeter</u></b>		
B3/8.11.1	Ammeter Reading: 0 Amp - 100 Amp	No.	\$ 96.00
B3/8.11.2	Ammeter Reading: 0 Amp - 125 Amp	No.	\$ 96.00
B3/8.11.3	Ammeter Reading: 0 Amp - 150 Amp	No.	\$ 96.00
B3/8.11.4	Ammeter Reading: 0 Amp - 250 Amp	No.	\$ 96.00
B3/8.11.5	Ammeter Reading: 0 Amp - 400 Amp	No.	\$ 96.00
B3/8.11.6	Ammeter Reading: 0 Amp - 600 Amp	No.	\$ 96.00
B3/8.11.7	Ammeter Reading: 0 Amp - 800 Amp	No.	\$ 96.00
B3/8.11.8	Ammeter Reading: 0 Amp - 1000 Amp	No.	\$ 96.00
B3/8.11.9	Ammeter Reading: 0 Amp - 120 Amp	No.	\$ 96.00
B3/8.11.10	Ammeter Reading: 0 Amp - 1600 Amp	No.	\$ 96.00
B3/8.11.11	Ammeter Reading: 0 Amp - 2500 Amp	No.	\$ 96.00
B3/8.12	<b><u>Supply, install, testing and commissioning of the following current transformer for earth fault relay, overcurrent relay, digital power meter and ammeter including all necessary wiring.</u></b>		
B3/8.12.1	CT Ratio: 100 / 5A	No.	\$ 72.00
B3/8.12.2	CT Ratio: 125 / 5A	No.	\$ 84.00
B3/8.12.3	CT Ratio: 150 / 5A	No.	\$ 84.00
B3/8.12.4	CT Ratio: 250 / 5A	No.	\$ 108.00
B3/8.12.5	CT Ratio: 350 / 5A	No.	\$ 132.00
B3/8.12.6	CT Ratio: 400 / 5A	No.	\$ 132.00
B3/8.12.7	CT Ratio: 600 / 5A	No.	\$ 156.00
B3/8.12.8	CT Ratio: 800 / 5A	No.	\$ 192.00
B3/8.12.9	CT Ratio: 1000 / 5A	No.	\$ 216.00
B3/8.12.10	CT Ratio: 1200 / 5A	No.	\$ 252.00
B3/8.12.11	CT Ratio: 1600 / 5A	No.	\$ 288.00
B3/8.12.12	CT Ratio: 2500 / 5A	No.	\$ 372.00



Item No.	Description	Unit	Rate
<b>B3/8.13</b>	<u>Supply, install, testing and commissioning of HRC fuse / Cut-out fuse as per DES specification.</u>		
<b>B3/8.13.1</b>	<u>High Rupturing Capacity (HRC) Fuse</u>		
<b>B3/8.13.1.1</b>	up to 10 Amp	No.	\$ 24.00
<b>B3/8.13.2.1</b>	up to 20 Amp	No.	\$ 24.00
<b>B3/8.13.1.2</b>	up to 40 Amp	No.	\$ 46.00
<b>B3/8.13.2.2</b>	up to 60 Amp	No.	\$ 70.00
<b>B3/8.13.2</b>	<u>Cut-Out Fuse</u>		
<b>B3/8.13.2.1</b>	Single Phase, non-hygroscopic ABS moulding case c/w integral 10A mcb, 2-way cable entry cable terminating terminals.	No.	\$ 42.00
<b>B3/8.13.2.2</b>	Three Phase, non-hygroscopic ABS moulding case c/w integral 10Amcb, 2-way cable entry cable terminating terminals.	No.	\$ 240.00
<b>B3/8.14</b>	<u>Contactors</u>		
<b>B3/8.14.1</b>	<u>Supply, install, testing and commissioning of single phase contactor.</u>		
<b>B3/8.14.1.1</b>	up to 10 Amp 1 Pole	No.	\$ 48.00
<b>B3/8.14.1.2</b>	up to 20 Amp 1 Pole	No.	\$ 48.00
<b>B3/8.14.1.3</b>	up to 25 Amp 1 Pole	No.	\$ 72.00
<b>B3/8.14.1.4</b>	up to 25 Amp 2 Pole	No.	\$ 72.00
<b>B3/8.14.1.5</b>	up to 40 Amp 1 Pole	No.	\$ 84.00
<b>B3/8.14.2</b>	<u>Supply, install, testing and commissioning of three phase contactor.</u>		
<b>B3/8.14.2.1</b>	up to 25 Amp 3 Pole	No.	\$ 48.00
<b>B3/8.14.2.2</b>	up to 25 Amp 4 Pole	No.	\$ 48.00
<b>B3/8.14.2.3</b>	up to 40 Amp 2 Pole	No.	\$ 84.00
<b>B3/8.14.2.4</b>	up to 40 Amp 3 Pole	No.	\$ 84.00
<b>B3/8.14.2.5</b>	up to 40 Amp 4 Pole	No.	\$ 84.00
<b>B3/8.14.2.6</b>	up to 63 Amp 2 Pole	No.	\$ 108.00
<b>B3/8.14.2.7</b>	up to 63 Amp 3 Pole	No.	\$ 108.00
<b>B3/8.14.2.8</b>	up to 63 Amp 4 Pole	No.	\$ 108.00
<b>B3/8.15</b>	Supply, install, testing and commissioning of by-pass switch.	No.	\$ 72.00
<b>B3/8.16</b>	Supply, install, testing and commissioning of selector switch.	No.	\$ 120.00
<b>B3/8.17</b>	<u>Photocell</u>		
	<u>Supply, install, testing and commissioning of photocell</u>		
<b>B3/8.17.1</b>	6 Amp Photocell.	No.	\$ 144.00
<b>B3/8.17.2</b>	10 Amp Photocell.	No.	\$ 144.00
<b>B3/8.18</b>	<u>Timer</u>		
	<u>Supply, install, testing and commissioning of 7 days 24 hours timer with spring reserve.</u>		
<b>B3/8.18.1</b>	up to 16 Amp	No.	\$ 156.00
<b>B3/8.18.2</b>	up to 32 Amp	No.	\$ 156.00
<b>B3/8.19</b>	Supply, install, testing and commissioning of LED indicator lamp	No.	\$ 24.00
<b>B3/8.20</b>	Supply, install, testing and commissioning of LED indicator lamp holder.	No.	\$ 24.00
<b>B3/8.21</b>	Supply and install of indicator LED indicator lamp cover.	No.	\$ 24.00
<b>B3/8.22</b>	<u>Supply, install, testing and commissioning of Neutral terminal:-</u>		
<b>B3/8.22.1</b>	Neutral terminal for switch fuse 30 Amp	No.	\$ 24.00
<b>B3/8.22.2</b>	Neutral terminal for switch fuse 60 Amp	No.	\$ 24.00
<b>B3/8.22.3</b>	Neutral terminal for switch fuse 100 Amp	No.	\$ 36.00
<b>B3/8.23</b>	<u>Supply, install, testing and commissioning of metalclad cutouts:-</u>		
<b>B3/8.23.1</b>	30 Amp / 32Amp SPN	No.	\$ 96.00
<b>B3/8.23.2</b>	60 Amp / 63 Amp SPN	No.	\$ 144.00
<b>B3/8.23.3</b>	100 Amp SPN	No.	\$ 144.00
<b>B3/8.23.4</b>	30 Amp / 32Amp TPN	No.	\$ 168.00
<b>B3/8.23.5</b>	60 Amp / 63 Amp TPN	No.	\$ 168.00
<b>B3/8.23.6</b>	100 Amp TPN	No.	\$ 168.00



Item No.	Description	Unit	Rate
<b>B3/8.24</b>	<u>Supply, install, testing and commissioning of fuse holder only, ceramic porcelain or thermoplastic, rewirable or cartridge type:-</u>		
B3/8.24.1	30 Amp / 32 Amp, 500V	No.	\$ 48.00
B3/8.24.2	60 Amp / 63 Amp, 500V	No.	\$ 72.00
B3/8.24.3	100 Amp, 500V	No.	\$ 132.00
B3/8.24.4	200 Amp, 500V	No.	\$ 336.00
<b>B3/8.25</b>	<u>Supply, install, testing and commissioning of fuse base only, ceramic porcelain or thermoplastic:-</u>		
B3/8.25.1	30 Amp / 32 Amp, 500V	No.	\$ 48.00
B3/8.25.2	60 Amp / 63 Amp, 500V	No.	\$ 72.00
B3/8.25.3	100 Amp, 500V	No.	\$ 132.00
B3/8.25.4	200 Amp, 500V	No.	\$ 336.00
<b>B3/8.26</b>	<u>Supply, install, testing and commissioning of Neutral links:-</u>		
B3/8.26.1	20 Amp – 30 Amp	No.	\$ 48.00
B3/8.26.2	60 Amp	No.	\$ 72.00
<b>B3/8.27</b>	<u>Supply, install, testing and commissioning of HRC cartridge fuses to IEC 60269-1, with off-set tags or central tags of rating:-</u>		
B3/8.27.1	6 Amp / 10 Amp / 20 Amp	No.	\$ 24.00
B3/8.27.2	25 Amp / 32 Amp	No.	\$ 24.00
B3/8.27.3	40 Amp / 50 Amp / 63 Amp	No.	\$ 45.60
B3/8.27.4	80 Amp / 100 Amp	No.	\$ 57.60
B3/8.27.5	125 Amp / 160 Amp / 200 Amp	No.	\$ 81.60
B3/8.27.6	250 Amp / 315 Amp	No.	\$ 103.20
B3/8.27.7	350 Amp / 400 Amp	No.	\$ 103.20
B3/8.27.8	450 Amp / 500 Amp	No.	\$ 114.00
B3/8.27.9	630 Amp	No.	\$ 132.00
B3/8.27.10	800 Amp	No.	\$ 216.00
<b>B3/8.28</b>	Supply, install, testing and commissioning of cartridge fuse links to IEC 60269-1 suitable for 13 Amp plug-tops, 2 Amp (yellow), 3 Amp (blue), 5 Amp (red), 10 Amp (black) and 13 Amp (brown).	No.	\$ 24.00
<b>B3/8.29</b>	100 Amp SP fork type insulated copper busbar	No.	\$ 144.00
<b>B3/8.30</b>	60 Amp Single Phase cut-outs c/w fuse links (BS88) and 1 No. Neutral link.	No.	\$ 79.20
<b>B3/8.31</b>	60 Amp 3 Phase cut-outs c/w fuse links (BS88) and 1 No. Neutral link.	No.	\$ 144.00
<b>B3/8.32</b>	<u>Supply and install porcelain supports for busbar c/w bolts, nuts and washers.</u>		
B3/8.32.1	10 BM 73mm x 35mm x 60mm	No.	\$ 48.00
B3/8.32.2	10 BMD 73mm x 35mm x 79mm	No.	\$ 54.00
B3/8.32.3	10 BML 95mm x 51mm x 79mm	No.	\$ 78.00
<b>B3/8.33</b>	<u>Supply, install, testing and commissioning of Ironclad weatherproof fireman's switch locked switch and switch fuse – 250V AC/DC.</u>		
B3/8.33.1	15 Amp 215 AF DP	No.	\$ 145.00
B3/8.33.2	30 Amp 230 AF DP	No.	\$ 198.00
B3/8.33.3	Fireman's switch name-plate 2 FNP	No.	\$ 40.00
B3/8.33.4	15 Amp 215 AS DP locked switch	No.	\$ 140.00
B3/8.33.5	15 Amp 215 KSN SPN switch fuse	No.	\$ 183.00
B3/8.33.6	15 Amp 215 KS DP switch	No.	\$ 168.00
<b>B3/8.34</b>	<u>Supply and install of cable lug c/w insulating sleeve for cable with the following size:-</u>		
B3/8.34.1	1 core 1.5mm <sup>2</sup>	No.	\$ 5.00
B3/8.34.2	1 core 2.5mm <sup>2</sup>	No.	\$ 7.00
B3/8.34.3	1 core 4mm <sup>2</sup>	No.	\$ 9.00
B3/8.34.4	1 core 6mm <sup>2</sup>	No.	\$ 15.00
B3/8.34.5	1 core 10mm <sup>2</sup>	No.	\$ 20.00
B3/8.34.6	1 core 16mm <sup>2</sup>	No.	\$ 25.00
B3/8.34.7	1 core 25mm <sup>2</sup>	No.	\$ 30.00
B3/8.34.8	1 core 35mm <sup>2</sup>	No.	\$ 40.00
B3/8.34.9	1 core 50mm <sup>2</sup>	No.	\$ 55.00



Item No.	Description	Unit	Rate
B3/8.34.10	1 core 70mm <sup>2</sup>	No.	\$ 60.00
B3/8.34.11	1 core 95mm <sup>2</sup>	No.	\$ 70.00
B3/8.34.12	1 core 120mm <sup>2</sup>	No.	\$ 78.00
B3/8.34.13	1 core 150mm <sup>2</sup>	No.	\$ 85.00
B3/8.34.14	1 core 185mm <sup>2</sup>	No.	\$ 95.00
B3/8.34.15	1 core 240mm <sup>2</sup>	No.	\$ 100.00
B3/8.34.16	1 core 300mm <sup>2</sup>	No.	\$ 130.00
B3/8.34.17	1 core 400mm <sup>2</sup>	No.	\$ 135.00
B3/8.34.18	1 core 500mm <sup>2</sup>	No.	\$ 145.00
B3/8.34.19	1 core 630mm <sup>2</sup>	No.	\$ 230.00
B3/8.34.20	1 core 800mm <sup>2</sup>	No.	\$ 300.00
B3/8.34.21	1 core 1000mm <sup>2</sup>	No.	\$ 400.00
B3/8.35	<u>Supply and install of the following metalclad distribution boards c/w neutral bar, earth bar, cover, but without MCB and RCD.</u>		
B3/8.35.1	<u>Single Phase</u>		
B3/8.35.1.1	6 ways SPN	No.	\$ 150.00
B3/8.35.1.2	7 ways SPN	No.	\$ 150.00
B3/8.35.1.3	8 ways SPN	No.	\$ 150.00
B3/8.35.1.4	9 ways SPN	No.	\$ 150.00
B3/8.35.1.5	10 ways SPN	No.	\$ 150.00
B3/8.35.1.6	11 ways SPN	No.	\$ 150.00
B3/8.35.1.7	12 ways SPN	No.	\$ 150.00
B3/8.35.1.8	13 ways SPN	No.	\$ 150.00
B3/8.35.1.9	14 ways SPN	No.	\$ 150.00
B3/8.35.1.10	15 ways SPN	No.	\$ 150.00
B3/8.35.1.11	16 ways SPN	No.	\$ 150.00
B3/8.35.1.12	17 ways SPN	No.	\$ 150.00
B3/8.35.1.13	18 ways SPN	No.	\$ 150.00
B3/8.35.2	<u>Three Phase</u>		
B3/8.35.2.1	3 x 6 ways SPN	No.	\$ 150.00
B3/8.35.2.2	3 x 7 ways SPN	No.	\$ 150.00
B3/8.35.2.3	3 x 8 ways SPN	No.	\$ 150.00
B3/8.35.2.4	3 x 9 ways SPN	No.	\$ 150.00
B3/8.35.2.5	3 x 10 ways SPN	No.	\$ 150.00
B3/8.35.2.6	3 x 11 ways SPN	No.	\$ 165.00
B3/8.35.2.7	3 x 12 ways SPN	No.	\$ 165.00
B3/8.35.2.8	3 x 13 ways SPN	No.	\$ 165.00
B3/8.35.2.9	3 x 14 ways SPN	No.	\$ 165.00
B3/8.35.2.10	3 x 15 ways SPN	No.	\$ 165.00
B3/8.35.2.11	3 x 16 ways SPN	No.	\$ 165.00
B3/8.35.2.12	3 x 17 ways SPN	No.	\$ 165.00
B3/8.35.2.13	3 x 18 ways SPN	No.	\$ 165.00
B3/8.35.2.14	6 ways TPN	No.	\$ 150.00
B3/8.35.2.15	7 ways TPN	No.	\$ 150.00
B3/8.35.2.16	8 ways TPN	No.	\$ 150.00
B3/8.35.2.17	9 ways TPN	No.	\$ 150.00
B3/8.35.2.18	10 ways TPN	No.	\$ 150.00
B3/8.35.2.19	11 ways TPN	No.	\$ 165.00
B3/8.35.2.20	12 ways TPN	No.	\$ 165.00
B3/8.35.2.21	13 ways TPN	No.	\$ 165.00
B3/8.35.2.22	14 ways TPN	No.	\$ 165.00
B3/8.35.2.23	15 ways TPN	No.	\$ 165.00
B3/8.35.2.24	16 ways TPN	No.	\$ 165.00
B3/8.35.2.25	17 ways TPN	No.	\$ 165.00
B3/8.35.2.26	18 ways TPN	No.	\$ 165.00



Item No.	Description	Unit	Rate
B3/8.36	<b>Distribution Boards</b>		
	<u>Supply, install, testing and commissioning of metalclad distribution boards fitted with the following circuit breakers and residual current devices c/w neutral bar, earth bar, combined busbar, cover and all necessary wiring as per DES standards and requirements.</u>		
B3/8.36.1	<b>Single Phase</b>		
B3/8.36.1.1	1 x 40 Amp 10kA SP MCB, 1 x 40 Amp 30mA DP RCD, 6 ways SP MCBs.	No.	\$ 350.00
B3/8.36.1.2	1 x 40 Amp 10kA SP MCB, 1 x 40 Amp 30mA DP RCD, 7 ways SP MCBs.	No.	\$ 360.00
B3/8.36.1.3	1 x 40 Amp 10kA SP MCB, 1 x 40 Amp 30mA DP RCD, 8 ways SP MCBs.	No.	\$ 370.00
B3/8.36.1.4	1 x 40 Amp 10kA SP MCB, 1 x 40 Amp 30mA DP RCD, 9 ways SP MCBs.	No.	\$ 380.00
B3/8.36.1.5	1 x 40 Amp 10kA SP MCB, 1 x 40 Amp 30mA DP RCD, 10 ways SP MCBs.	No.	\$ 390.00
B3/8.36.1.6	1 x 40 Amp 10kA SP MCB, 1 x 40 Amp 30mA DP RCD, 11 ways SP MCBs.	No.	\$ 400.00
B3/8.36.1.7	1 x 40 Amp 10kA SP MCB, 1 x 40 Amp 30mA DP RCD, 12 ways SP MCBs.	No.	\$ 420.00
B3/8.36.1.8	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 6 ways SP MCBs.	No.	\$ 400.00
B3/8.36.1.9	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 7 ways SP MCBs.	No.	\$ 410.00
B3/8.36.1.10	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 8 ways SP MCBs.	No.	\$ 420.00
B3/8.36.1.11	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 9 ways SP MCBs.	No.	\$ 440.00
B3/8.36.1.12	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 10 ways SP MCBs.	No.	\$ 450.00
B3/8.36.1.13	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 11 ways SP MCBs.	No.	\$ 460.00
B3/8.36.1.14	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 12 ways SP MCBs.	No.	\$ 470.00
B3/8.36.1.15	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 13 ways SP MCBs.	No.	\$ 480.00
B3/8.36.1.16	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 14 ways SP MCBs.	No.	\$ 490.00
B3/8.36.1.17	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 15 ways SP MCBs.	No.	\$ 520.00
B3/8.36.1.18	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 16 ways SP MCBs.	No.	\$ 550.00
B3/8.36.1.19	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 17 ways SP MCBs.	No.	\$ 580.00
B3/8.36.1.20	1 x 63 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 18 ways SP MCBs.	No.	\$ 610.00
B3/8.36.1.21	1 x 80 Amp 10kA SP MCB, 1 x 80 Amp 30mA DP RCD, 6 ways MCBs.	No.	\$ 450.00
B3/8.36.1.22	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 7 ways SP MCBs.	No.	\$ 460.00
B3/8.36.1.23	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 8 ways SP MCBs.	No.	\$ 470.00
B3/8.36.1.24	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 9 ways SP MCBs.	No.	\$ 490.00
B3/8.36.1.25	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 10 ways SP MCBs.	No.	\$ 500.00
B3/8.36.1.26	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 11 ways SP MCBs.	No.	\$ 510.00
B3/8.36.1.27	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 12 ways SP MCBs.	No.	\$ 520.00
B3/8.36.1.28	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 13 ways SP MCBs.	No.	\$ 530.00
B3/8.36.1.29	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 14 ways SP MCBs.	No.	\$ 540.00
B3/8.36.1.30	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 15 ways SP MCBs.	No.	\$ 550.00
B3/8.36.1.31	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 16 ways SP MCBs.	No.	\$ 560.00
B3/8.36.1.32	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 17 ways SP MCBs.	No.	\$ 580.00
B3/8.36.1.33	1 x 80 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 18 ways SP MCBs.	No.	\$ 600.00
B3/8.36.1.34	1 x 100 Amp 10kA SP MCB, 1 x 80 Amp 30mA DP RCD, 6 ways MCBs.	No.	\$ 450.00
B3/8.36.1.35	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 7 ways SP MCBs.	No.	\$ 510.00
B3/8.36.1.36	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 8 ways SP MCBs.	No.	\$ 520.00
B3/8.36.1.37	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 9 ways SP MCBs.	No.	\$ 530.00
B3/8.36.1.38	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 10 ways SP MCBs.	No.	\$ 540.00
B3/8.36.1.39	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 11 ways SP MCBs.	No.	\$ 550.00
B3/8.36.1.40	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 12 ways SP MCBs.	No.	\$ 560.00
B3/8.36.1.41	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 13 ways SP MCBs.	No.	\$ 580.00
B3/8.36.1.42	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 14 ways SP MCBs.	No.	\$ 600.00
B3/8.36.1.43	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 15 ways SP MCBs.	No.	\$ 620.00
B3/8.36.1.44	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 16 ways SP MCBs.	No.	\$ 640.00
B3/8.36.1.45	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 17 ways SP MCBs.	No.	\$ 660.00
B3/8.36.1.46	1 x 100 Amp 10kA SP MCB, 1 x 63 Amp 30mA DP RCD, 18 ways SP MCBs.	No.	\$ 680.00
B3/8.36.2	<b>Three Phase</b>		
B3/8.36.2.1	1 x 40 Amp 10kA TPN MCB, 3 x 40 Amp 30mA DP RCD, 3 x 2 ways MCBs.	No.	\$ 600.00
B3/8.36.2.2	1 x 40 Amp 10kA TPN MCB, 3 x 40 Amp 30mA DP RCD, 3 x 3 ways MCBs.	No.	\$ 630.00
B3/8.36.2.3	1 x 40 Amp 10kA TPN MCB, 3 x 40 Amp 30mA DP RCD, 3 x 4 ways MCBs.	No.	\$ 680.00
B3/8.36.2.4	1 x 40 Amp 10kA TPN MCB, 3 x 40 Amp 30mA DP RCD, 3 x 5 ways MCBs.	No.	\$ 720.00





Item No.	Description	Unit	Rate
B3/8.36.2.64	1 x 40 Amp 10kA TPN MCB, 1 x 40 Amp 30mA 4P RCD, 7 ways MCBs.	No.	\$ 570.00
B3/8.36.2.65	1 x 40 Amp 10kA TPN MCB, 1 x 40 Amp 30mA 4P RCD, 8 ways MCBs.	No.	\$ 590.00
B3/8.36.2.66	1 x 40 Amp 10kA TPN MCB, 1 x 40 Amp 30mA 4P RCD, 9 ways MCBs.	No.	\$ 620.00
B3/8.36.2.67	1 x 40 Amp 10kA TPN MCB, 1 x 40 Amp 30mA 4P RCD, 10 ways MCBs.	No.	\$ 640.00
B3/8.36.2.68	1 x 40 Amp 10kA TPN MCB, 1 x 40 Amp 30mA 4P RCD, 11 ways MCBs.	No.	\$ 680.00
B3/8.36.2.69	1 x 40 Amp 10kA TPN MCB, 1 x 40 Amp 30mA 4P RCD, 12 ways MCBs.	No.	\$ 750.00
B3/8.36.2.70	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 6 ways MCBs.	No.	\$ 620.00
B3/8.36.2.71	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 7 ways MCBs.	No.	\$ 640.00
B3/8.36.2.72	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 8 ways MCBs.	No.	\$ 660.00
B3/8.36.2.73	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 9 ways MCBs.	No.	\$ 680.00
B3/8.36.2.74	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 10 ways MCBs.	No.	\$ 700.00
B3/8.36.2.75	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 11 ways MCBs.	No.	\$ 720.00
B3/8.36.2.76	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 12 ways MCBs.	No.	\$ 780.00
B3/8.36.2.77	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 13 ways MCBs.	No.	\$ 820.00
B3/8.36.2.78	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 14 ways MCBs.	No.	\$ 820.00
B3/8.36.2.79	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 15 ways MCBs.	No.	\$ 840.00
B3/8.36.2.80	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 16 ways MCBs.	No.	\$ 860.00
B3/8.36.2.81	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 17 ways MCBs.	No.	\$ 880.00
B3/8.36.2.82	1 x 63 Amp 10kA TPN MCB, 1 x 63 Amp 30mA 4P RCD, 18 ways MCBs.	No.	\$ 920.00
B3/8.36.2.83	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 6 ways MCBs.	No.	\$ 680.00
B3/8.36.2.84	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 7 ways MCBs.	No.	\$ 700.00
B3/8.36.2.85	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 8 ways MCBs.	No.	\$ 720.00
B3/8.36.2.86	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 9 ways MCBs.	No.	\$ 740.00
B3/8.36.2.87	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 10 ways MCBs.	No.	\$ 780.00
B3/8.36.2.88	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 11 ways MCBs.	No.	\$ 820.00
B3/8.36.2.89	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 12 ways MCBs.	No.	\$ 840.00
B3/8.36.2.90	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 13 ways MCBs.	No.	\$ 880.00
B3/8.36.2.91	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 14 ways MCBs.	No.	\$ 920.00
B3/8.36.2.92	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 15 ways MCBs.	No.	\$ 960.00
B3/8.36.2.93	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 16 ways MCBs.	No.	\$ 1,000.00
B3/8.36.2.94	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 17 ways MCBs.	No.	\$ 1,050.00
B3/8.36.2.95	1 x 80 Amp 10kA TPN MCB, 1 x 80 Amp 30mA 4P RCD, 18 ways MCBs.	No.	\$ 1,080.00
B3/8.36.2.96	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 6 ways MCBs.	No.	\$ 720.00
B3/8.36.2.97	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 7 ways MCBs.	No.	\$ 750.00
B3/8.36.2.98	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 8 ways MCBs.	No.	\$ 770.00
B3/8.36.2.99	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 9 ways MCBs.	No.	\$ 790.00
B3/8.36.2.100	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 10 ways MCBs.	No.	\$ 820.00
B3/8.36.2.101	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 11 ways MCBs.	No.	\$ 850.00
B3/8.36.2.102	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 12 ways MCBs.	No.	\$ 880.00
B3/8.36.2.103	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 13 ways MCBs.	No.	\$ 910.00
B3/8.36.2.104	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 14 ways MCBs.	No.	\$ 960.00
B3/8.36.2.105	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 15 ways MCBs.	No.	\$ 1,010.00
B3/8.36.2.106	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 16 ways MCBs.	No.	\$ 1,060.00
B3/8.36.2.107	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 17 ways MCBs.	No.	\$ 1,100.00
B3/8.36.2.108	1 x 100 Amp 10kA TPN MCB, 1 x 100 Amp 30mA 4P RCD, 18 ways MCBs.	No.	\$ 1,150.00
B3/8.37	<u>TPN MCCB in metal enclosure Distribution Board c/w 3 x RCD / 30MA and MCB's, timer, photocell, contactor, 2A fuse</u>		
B3/8.37.1	40A TPN MCCB - 18 ways	No.	\$ 850.00
B3/8.37.2	63A TPN MCCB - 18 ways	No.	\$ 1,500.00
B3/8.37.3	63A TPN MCCB - 24 ways	No.	\$ 2,000.00
B3/8.37.4	63A TPN MCCB - 36 ways	No.	\$ 2,200.00
B3/8.37.5	40A TPN MCCB - 24 ways	No.	\$ 1,300.00
B3/8.37.6	100A TPN MCCB - 24 ways	No.	\$ 3,300.00
B3/8.37.7	100A TPN MCCB - 36 ways	No.	\$ 3,500.00
B3/8.37.8	40A SPN MCCB - 10 ways	No.	\$ 680.00
B3/8.37.9	63A SPN MCCB - 10 ways	No.	\$ 950.00
B3/8.37.10	40A SPN MCCB - 12 ways	No.	\$ 1,000.00
B3/8.37.11	63A SPN MCCB - 12 ways	No.	\$ 1,200.00



Item No.	Description	Unit	Rate
B3/8.38	Single Phase Prepaid Meter liase with DES	No.	\$ 500.00
B3/8.39	<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>		
B3/8.39.1	For ACB less than 1600A	No.	\$ 14,000.00
B3/8.39.2	For ACB more than 1800A	No.	\$ 20,000.00
B3/8.40	Padlock and chain for main switch room / transformer room	No.	\$ 150.00
B3/8.41	Standard Electrical Safety Signages	No.	\$ 150.00



Item No.	Description	Unit	Rate
B3/9.0	<p><b><u>MAIN SWITCHBOARD MAINTENANCE / BREAKDOWN / RECTIFICATION</u></b></p> <p><b>* IMPORTANT NOTE</b></p> <p><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></p>		
B3/9.1	<p><b><u>To attend breakdown and on call basis</u></b></p> <p>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</p> <p>The Scope of works will include as below:</p> <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
B3/9.2	<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 chassis, 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	\$ 500.00
B3/9.3	<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>		
B3/9.3.1	up To 150A	No.	\$ 300.00
B3/9.3.2	200A - 400A	No.	\$ 400.00
B3/9.3.3	400A - 800A	No.	\$ 500.00
B3/9.3.4	800A - 1200A	No.	\$ 1,500.00
B3/9.3.5	1200A - 1600A	No.	\$ 2,500.00
B3/9.3.6	1600A and above	No.	\$ 5,000.00
B3/9.4	<u>Temporary Emergency Cable</u>		
B3/9.4.1	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
B3/9.4.2	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
B3/9.5	<u>Main Switchboard Housekeeping</u>		
B3/9.5.1	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
B3/9.6	To conduct periodic inspection and testing on the existing distribution board, 5 years interval, as per DES standards and requirements as stated in Electrical Installation Requirements 2011 - First Edition (EIR).	No.	\$ 200.00



Item No.	Description	Unit	Rate
B3/10.0	<b>SUPPLY, DELIVERY AND INSTALL OF LIGHT FITTING, FANS &amp; OTHERS</b>		
	<u>Supply, delivery and install as follows:</u>		
B3/10.1	<u>Fluorescent surface batten fitting c/w day light tube, 240V 50HZ ballast, capacitor, starter etc.</u>		
B3/10.1.1	1 x 18W	No.	\$ 30.00
B3/10.1.2	1 x 36W	No.	\$ 35.00
B3/10.1.3	1 x 65W	No.	\$ 100.00
B3/10.2	<u>LED Light surface batten fitting c/w daylight / warmlight / Coloured LED tube</u>		
B3/10.2.1	1 x 8W	No.	\$ 35.00
B3/10.2.2	1 x 16W	No.	\$ 36.00
B3/10.2.3	2 x 16W	No.	\$ 51.00
B3/10.3	<u>Fluorescent surface batten fitting c/w daylight / warmlight / Coloured tube, 240V 50Hz, ballast, capacitor, starter etc</u>		
B3/10.3.1	2 x 18W	No.	\$ 48.00
B3/10.3.2	2 x 36W	No.	\$ 55.00
B3/10.3.3	2 x 65W	No.	\$ 130.00
B3/10.4	<u>Metal reflector surface fluorescent batten fitting c/w daylight / warmlight / coloured tube, 240V 50Hz, ballast, capacitor, starter etc</u>		
B3/10.4.1	1 x 18W	No.	\$ 38.00
B3/10.4.2	1 x 36W	No.	\$ 45.00
B3/10.4.3	2 x 18W	No.	\$ 65.00
B3/10.4.4	2 x 36W	No.	\$ 70.00
B3/10.4.5	3 x 36W	No.	\$ 120.00
B3/10.4.6	4 x 36W	No.	\$ 150.00
B3/10.5	<u>Surface mirror louver type fluorescent fitting c/w daylight / warmlight / coloured tube, 240V 50Hz, ballast, capacitor starter etc.</u>		
B3/10.5.1	2 x 18W	No.	\$ 80.00
B3/10.5.2	3 x 18W	No.	\$ 140.00
B3/10.5.3	4 x 18W	No.	\$ 180.00
B3/10.5.4	2 x 36W	No.	\$ 135.00
B3/10.5.5	3 x 36W	No.	\$ 160.00
B3/10.5.6	4 x 36W	No.	\$ 180.00
B3/10.6	<u>Recessed type fluorescent fitting c/w daylight / warmlight / coloured tube, 240V 50Hz, ballast, capacitor, starter etc</u>		
B3/10.6.1	2 x 18W	No.	\$ 90.00
B3/10.6.2	3 x 18W	No.	\$ 140.00
B3/10.6.3	4 x 18W	No.	\$ 188.00
B3/10.6.4	2 x 36W	No.	\$ 135.00
B3/10.6.5	3 x 36W	No.	\$ 160.00
B3/10.6.6	4 x 36W	No.	\$ 180.00
B3/10.7	<u>Surface IP54 weatherproof fluorescent fitting c/w daylight / warmlight / coloured tube, 240V 50Hz ballast, capacitor, starter etc.</u>		
B3/10.7.1	1 x 18W	No.	\$ 65.00
B3/10.7.2	2 x 18W	No.	\$ 100.00
B3/10.7.3	1 x 36W	No.	\$ 80.00
B3/10.7.4	2 x 26W	No.	\$ 120.00
B3/10.8	<u>Flourescent Tube Bare Light Fittings (T5 Type)</u>		
B3/10.8.1	1 x 28W Batten Fitting C/w Tube	No.	\$ 16.00
B3/10.8.2	1 x 13W Batten Fitting C/w Tube	No.	\$ 15.00
B3/10.8.3	2 x 28W Batten Fitting C/w Tube	No.	\$ 23.00
B3/10.8.4	2 x 13W Batten Fitting C/w Tube	No.	\$ 21.00
B3/10.8.5	3 x 28W Mirror Louver Fitting	No.	\$ 87.00



Item No.	Description	Unit	Rate
B3/10.9	<u>Flourescent tube batten type or standard diffuser type light fittings or mirror reflector (complete set) - T5 type of fittings</u>		
B3/10.9.1	1 x 28W Batten diffuser fitting c/w tube	No.	\$ 25.00
B3/10.9.2	1 x 13W Batten diffuser fitting c/w tube	No.	\$ 23.00
B3/10.9.3	2 x 28W Batten diffuser fitting c/w tube	No.	\$ 33.00
B3/10.9.4	2 x 13W Batten diffuser fitting c/w tube	No.	\$ 30.00
B3/10.10	<u>Flourescent Tube Prismatic Light Fittings - T5 type of fittings</u>		
B3/10.10.1	2 x 28W 1FT x4FT Surface Prismatic c/w tube	No.	\$ 60.00
B3/10.10.2	2 x 13W 1FT x 2FT Surface Prismatic c/w tube	No.	\$ 57.00
B3/10.11	<u>Flourescent Tube Recessed Light Fittings - T5 type of fittings</u>		
B3/10.11.1	2 x 28W 1 FT x 4FT Recessed mirror louver c/w tube	No.	\$ 70.00
B3/10.11.2	3 x 28W 2 FT x 4FT Recessed mirror louver c/w tube	No.	\$ 87.00
B3/10.11.3	4 x 28W 2FT x 4FT Recessed mirror louver c/w tube	No.	\$ 143.00
B3/10.11.4	3 x 13W 2FT x 2FT Recessed mirror louver c/w tube	No.	\$ 66.00
B3/10.11.5	4 x 13W 1 FT x 4FT Recessed mirror louver c/w tube	No.	\$ 75.00
B3/10.12	<u>Standard LED Weatherproof Fittings - T5 Type of fittings</u>		
B3/10.12.1	1 x 18W c/w tube	No.	\$ 30.00
B3/10.12.2	2 x 18W c/w tube	No.	\$ 35.00
B3/10.13	<u>LED Tube Bare Light Fittings (T8 Type)</u>		
B3/10.13.1	1 x 28W Batten Fitting c/w Tube	No.	\$ 40.00
B3/10.13.2	1 x 18W Batten Fitting c/w Tube	No.	\$ 38.00
B3/10.13.3	1 x 9W Batten Fitting c/w Tube	No.	\$ 35.00
B3/10.13.4	2 x 28W Batten Fitting c/w Tube	No.	\$ 55.00
B3/10.13.5	2 x 18W Batten Fitting c/w Tube	No.	\$ 52.00
B3/10.13.6	3 x 28W Mirror Louver Fitting	No.	\$ 87.00
B3/10.14	<u>LED Tube Prismatic Light Fittings - T8 type of fittings</u>		
B3/10.14.1	2 x 28W 1FT x4FT Surface Prismatic c/w tube	No.	\$ 60.00
B3/10.14.2	2 x 13W 1FT x 2FT Surface Prismatic c/w tube	No.	\$ 57.00
B3/10.15	<u>Standard LED Weatherproof Fittings c/w LED tube - T8 Type of fittings</u>		
B3/10.15.1	1 x 9W	No.	\$ 20.00
B3/10.15.2	2 x 9W	No.	\$ 25.00
B3/10.15.3	1 x 18W	No.	\$ 25.00
B3/10.15.4	2 x 18W	No.	\$ 30.00
B3/10.16	<u>LED Mirror Louver Fitting (recessed / Mounted) c/w LED tube - T8 type of fittings</u>		
B3/10.16.1	2 x 9W	No.	\$ 80.00
B3/10.16.2	3 x 9W	No.	\$ 140.00
B3/10.16.3	4 x 9W	No.	\$ 180.00
B3/10.16.4	2 x 18W	No.	\$ 135.00
B3/10.16.5	3 x 18W	No.	\$ 160.00
B3/10.16.6	4 x 18W	No.	\$ 180.00
B3/10.17	<u>LED Panel Light type (recessed / Mounted) c/w LED tube - T8 type of fittings</u>		
B3/10.17.1	2 x 9W	No.	\$ 80.00
B3/10.17.2	3 x 9W	No.	\$ 130.00
B3/10.17.3	2 x 18W	No.	\$ 135.00
B3/10.17.4	3 x 18W	No.	\$ 160.00
B3/10.18	<u>High bay fitting with polycarbonate reflector, 240V 50Hz mercury bulbs, control gear, ignitor, capacitor and chain</u>		
B3/10.18.1	150W	No.	\$ 350.00
B3/10.18.2	250W	No.	\$ 460.00
B3/10.18.3	400W	No.	\$ 550.00



Item No.	Description	Unit	Rate
B3/10.19	<u>High bay fitting with polycarbonate reflector, 240V, 50Hz metal halide lamp, control gear, ignitor, capacitor and chain</u>		
B3/10.19.1	150W	No.	\$ 380.00
B3/10.19.2	250W	No.	\$ 450.00
B3/10.19.3	400W	No.	\$ 520.00
B3/10.20	<u>SON/T Floodlight fitting IP54 c/w 70W lamp, ignitor, ballast, capacitor 240V 50Hz etc.</u>		
B3/10.20.1	70W	No.	\$ 250.00
B3/10.20.2	150W	No.	\$ 350.00
B3/10.20.3	250W	No.	\$ 480.00
B3/10.20.4	400W	No.	\$ 540.00
B3/10.20.5	1000W	No.	\$ 610.00
B3/10.21	<u>Metal Halide lamp</u>		
B3/10.21.1	70W	No.	\$ 250.00
B3/10.21.2	150W	No.	\$ 380.00
B3/10.21.3	250W	No.	\$ 490.00
B3/10.21.4	400W	No.	\$ 550.00
B3/10.22	<u>Surface circular fluorescent fitting c/w 22W circular tube, 240V 50Hz ballast, capacitor, starter</u>		
B3/10.22.1	1 x 22W	No.	\$ 60.00
B3/10.22.2	1 x 32W	No.	\$ 85.00
B3/10.22.3	1 x 40W	No.	\$ 100.00
B3/10.23	<u>Ceiling mounted surface round type fitting E27 c/w 60W GLS lamp</u>		
B3/10.23.1	40W	No.	\$ 85.00
B3/10.23.2	60W	No.	\$ 90.00
B3/10.23.3	80W	No.	\$ 100.00
B3/10.23.4	100W	No.	\$ 140.00
B3/10.24	<u>Wall mounted surface type c/w GLS lamp E27</u>		
B3/10.24.1	40W	No.	\$ 100.00
B3/10.24.2	60W	No.	\$ 120.00
B3/10.24.3	80W	No.	\$ 160.00
B3/10.24.4	100W	No.	\$ 200.00
B3/10.25	<u>Ceiling mounted/wall mounted prismatic bulkhead fitting 240V 50Hz, ballast, lamp starter etc.</u>		
B3/10.25.1	1 x 60W	No.	\$ 65.00
B3/10.25.2	1 x 80W	No.	\$ 75.00
B3/10.25.3	1 x 100W	No.	\$ 85.00
B3/10.25.4	1 x 120W	No.	\$ 90.00
B3/10.25.5	PAR 38 type spotlight fitting c/w 80W lamp 240V 50Hz	No.	\$ 80.00
B3/10.25.6	PAR 38 type spotlight fitting c/w 120W lamp 240V 50Hz	No.	\$ 110.00
B3/10.26	<u>Obstruction light mounted on roof / high level IP54 cast aluminium alloy, aviation. Red/Yellow glass 240V 50Hz lamp with bayonet base</u>		
B3/10.26.1	Below 40m height	No.	\$ 700.00
B3/10.26.2	Above 40m height	No.	\$ 2,800.00
B3/10.27	<u>Supply and install hot-dipped galvanized pole c/w mounting flanges, bolts &amp; nuts and necessary accessories.</u>		
B3/10.27.1	Height: 1000mm	No.	\$ 348.00
B3/10.27.2	Height: 1500mm	No.	\$ 372.00
B3/10.28	<u>Keluar Sign Fitting</u>		
B3/10.28.1	1 x 8W	No.	\$ 120.00
B3/10.28.2	2 x 8W	No.	\$ 140.00



Item No.	Description	Unit	Rate
B3/10.29	<u>PLC downlight fitting c/w 2 pin lamp</u>		
B3/10.29.1	1 x 13W	No.	\$ 60.00
B3/10.29.2	1 x 18W	No.	\$ 75.00
B3/10.29.3	1 x 26W	No.	\$ 90.00
B3/10.29.4	2 x 9W	No.	\$ 70.00
B3/10.29.5	2 x 13W	No.	\$ 100.00
B3/10.29.6	2 x 18W	No.	\$ 110.00
B3/10.29.7	2 x 26W	No.	\$ 120.00
B3/10.30	<u>Down light fitting c/w E27 energy saving lamp</u>		
B3/10.30.1	1 x 13W	No.	\$ 30.00
B3/10.30.2	1 x 18W	No.	\$ 38.00
B3/10.30.3	1 x 26W	No.	\$ 40.00
B3/10.30.4	2 x 18W	No.	\$ 60.00
B3/10.31	<u>LED Downlight (recessed mounted Round / Square)</u>		
B3/10.31.1	6W - 8W	No.	\$ 20.00
B3/10.31.2	12W - 18W	No.	\$ 40.00
B3/10.31.3	21W - 24W	No.	\$ 50.00
B3/10.32	<u>PLC surface circular / wall fitting c/w lamp 240V 50 Hz ballast etc.</u>		
B3/10.32.1	2 x 9W	No.	\$ 78.00
B3/10.32.2	2 x 11W	No.	\$ 90.00
B3/10.32.3	2 x 18W	No.	\$ 110.00
B3/10.32.4	1 x 50W Halogen downlight c/w 12V transformer, 50W halogen lamp etc.	No.	\$ 100.00
B3/10.33	<u>LED floodlight Die Cast Aluminium finished c/w control box</u>		
B3/10.33.1	10W	No.	\$ 40.00
B3/10.33.2	20W	No.	\$ 80.00
B3/10.33.3	40W	No.	\$ 150.00
B3/10.33.4	60W	No.	\$ 220.00
B3/10.33.5	90W - 150W	No.	\$ 350.00
B3/10.33.6	180W - 200W	No.	\$ 420.00
B3/10.33.7	220W - 300W	No.	\$ 500.00
B3/10.34	1.5m (56/60inch) dia. ceiling fan c/w regulator including rod modification as instructed by S.O	No.	\$ 105.00
B3/10.35	22" stand fan	No.	\$ 180.00
B3/10.36	25 inch dia. Industrial wall fan	No.	\$ 180.00
B3/10.37	16 inch dia. wall fan	No.	\$ 100.00
B3/10.38	20 inch dia. wall fan	No.	\$ 160.00
B3/10.39	16 inch dia. Auto fan	No.	\$ 100.00
B3/10.40	<u>Glass mounted exhaust fan c/w cutting glass</u>		
B3/10.40.1	6 inch dia.	No.	\$ 90.00
B3/9.40.2	8 inch dia.	No.	\$ 120.00
B3/10.41	<u>Wall mounted exhaust fan</u>		
B3/10.41.1	6 inch dia.	No.	\$ 100.00
B3/10.41.2	8 inch dia.	No.	\$ 130.00
B3/10.41.3	10 inch dia.	No.	\$ 150.00
B3/10.41.4	12 inch dia.	No.	\$ 190.00
B3/10.41.5	16 inch dia.	No.	\$ 250.00



Item No.	Description	Unit	Rate
B3/10.42	<u>Heavy duty exhaust fan c/w auto shutte</u>		
B3/10.42.1	18 inch	No.	\$ 650.00
B3/10.42.2	20 inch	No.	\$ 750.00
B3/10.43	<u>Ceiling Mounted Duct Type Exhaust Fan c/w necessary duct works to existing duct and connector</u>		
B3/10.43.1	4 inch	No.	\$ 150.00
B3/10.43.2	6 - 8 inch	No.	\$ 180.00
B3/10.43.3	9 - 10 inch	No.	\$ 350.00
B3/10.44	6 inch dia. Electric school bell 240V 50Hz	No.	\$ 250.00
B3/10.45	<u>Water heater c/w connection with valve, tap, pipe etc.</u>		
B3/10.45.1	15 litres	No.	\$ 200.00
B3/10.45.2	30 litre 2.5 kw 240V	No.	\$ 240.00
B3/10.45.3	25 litres 3 KW 240V	No.	\$ 286.00
B3/10.45.4	50 litres 2.5 KW 240V	No.	\$ 347.00
B3/10.45.5	50 litres 3 KW 240V	No.	\$ 377.00
B3/10.45.6	75 litres 3 KW	No.	\$ 462.00
B3/10.45.7	100 Litres 9 KW	No.	\$ 520.00
B3/10.45.8	120 Litres 11 KW	No.	\$ 850.00
B3/10.46	Instant water heater 3KW, 240V c/w connection with valve, tap, pipe etc.	No.	\$ 350.00
B3/10.47	Door bell with transformer 240V / 4, 8, 12 volt	No.	\$ 120.00
B3/10.48	Door bell with 1.5V battery operation	No.	\$ 110.00
B3/10.49	<u>SON/T street lighting lantern c/w lamp, IP54, 240V 50Hz, Ignitor, ballast, capacitor etc.</u>		
B3/10.49.1	70W Ditto	No.	\$ 138.00
B3/10.49.2	150W Ditto	No.	\$ 450.00
B3/10.49.3	250W Ditto	No.	\$ 550.00
B3/10.50	90W LED Street lighting weatherproof outdoor type c/w 90W LED Light and driver etc.	No.	\$ 460.00
B3/10.51	<u>Compound lighting globe, IP54 240V 50Hz, c/w lamp, ballast, ignitor</u>		
B3/10.51.1	70W	No.	\$ 480.00
B3/10.51.2	150W	No.	\$ 600.00
B3/10.52	<u>LED Compound Lighting globe, IP54 c/w E27 bulb holder and LED bulb</u>		
B3/10.52.1	8 inch	No.	\$ 60.00
B3/10.52.2	10 inch	No.	\$ 76.00
B3/10.52.3	12 inch	No.	\$ 100.00
B3/10.52.4	16 inch	No.	\$ 200.00
B3/10.52.5	20 inch	No.	\$ 300.00
B3/10.53	<u>Ducted Exhaust Fan</u>		
B3/10.53.1	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
B3/10.54	Stainless Steel bracket for UPVC pipe c/w rod, bolt and nut	Mtr	\$ 450.00
B3/10.55	<u>Solar LED Floodlight fitting c/w accessories</u>		
B3/10.55.1	100W	No.	\$ 110.00
B3/10.55.2	200W	No.	\$ 150.00
B3/10.55.3	300W	No.	\$ 170.00
B3/10.55.4	400W	No.	\$ 190.00
B3/10.55.5	500W	No.	\$ 210.00



Item No.	Description	Unit	Rate
B3/10.56	<u>Solar LED Streetlight fitting</u>		
B3/10.56.1	20W	No.	\$ 21.00
B3/10.56.2	40W	No.	\$ 33.00
B3/10.56.3	90W	No.	\$ 40.00
B3/10.56.4	120W	No.	\$ 55.00
B3/10.56.5	200W	No.	\$ 100.00
B3/10.56.6	300W	No.	\$ 130.00
B3/10.56.7	400W	No.	\$ 180.00
B3/10.56.8	Bracket kit / accessories c/w modification	No.	\$ 7.00
B3/10.57	<u>Emergency Light</u>		
B3/10.57.1	LED Self-contained Emergency Light c/w accessories	No.	\$ 170.00
B3/10.57.2	LED Self-contained Twin Head Emergency Light c/w accessories	No.	\$ 280.00
B3/10.58	<u>Lighting Column</u> To Supply and install hot-dipped galvanized steel octagonal cross section lighting column, flangemounting type base c/w galvanized steel anchor bolts, nuts and necessary accessories. Similar to Lysight / Galvapole / Ningbo or approved equivalent c/w reinforced concrete foundation which suit to the lighting column		
B3/10.58.1	Height: 4000mm	No.	\$ 570.00
B3/10.58.2	Height: 5000mm	No.	\$ 602.00
B3/10.58.3	Height: 6000mm	No.	\$ 634.00
B3/10.58.4	Height: 8000mm	No.	\$ 831.00
B3/10.58.5	Height: 10000mm	No.	\$ 1,078.00
B3/10.58.6	Height: 12000mm	No.	\$ 1,197.00
B3/10.59	<u>Wall light fittings c/w E14 bulb holder and LED bulb</u>		
B3/10.59.1	1 x 40W	No.	\$ 45.20
B3/10.59.2	1 x 60W	No.	\$ 70.00
B3/10.59.3	2 x 60W	No.	\$ 80.50
B3/10.60	<u>Wall light fittings c/w E27 bulb holder and LED bulb</u>		
B3/10.60.1	2 x 60W	No.	\$ 93.70
B3/10.60.2	1 x 100W	No.	\$ 97.70
B3/10.60.3	2 x 100W	No.	\$ 117.50
B3/10.60.4	3 x 100W	No.	\$ 120.10
B3/10.61	<u>wall mounted vandal resistant light fitting, UV stabilised impact-resistant, flame-retardant polycarbonate body &amp; lens c/w 70W MH / HPS lamp / 42W TC-T lamp all as per cat nos. LA70MH / LA70S / LA80MV</u>	No.	\$ 291.50
B3/10.62	<u>Electric insect killer fitting c/w light tubes</u>		
B3/10.62.1	2 x 10W	No.	\$ 352.00
B3/10.62.2	2 x 15W	No.	\$ 462.00
B3/10.62.3	2 x 20W	No.	\$ 550.00
B3/10.63	<u>Underwater Light Fitting</u>		
B3/10.63.1	Underwater spot light c/w PAR38 24 V bulb	No.	\$ 308.00
B3/10.63.2	220/240 output 24V 400 VA transformer	No.	\$ 275.00
B3/10.64	Supply, install, testing and commissioning of automatic hand dryer.	No.	\$ 351.00



Item No.	Description	Unit	Rate
B3/11.0	<b>WATER PUMP SYSTEM</b>		
B3/11.1	<u>Supply, install, testing and commissioning of water booster pump c/w motor (efficiency class = IE3 and above), mounting skid, all necessary accessories and connection to service pipe.</u>		
B3/11.1.1	Pump Capacity: 0.75 kW ,Supply Voltage: 230V 50Hz (Single Phase)	No.	\$ 800.00
B3/11.1.2	Pump Capacity: 1.1 kW, Supply Voltage: 230V 50Hz (Single Phase)	No.	\$ 1,000.00
B3/11.2	<u>Supply, install, testing and commissioning of vertical multistage centrifugal water booster pump c/w motor (efficiency class = IE3 and above), mounting skid, all necessary accessories and connection to service pipe.</u>		
B3/11.2.1	Pump Capacity: upto 3 kW Supply Voltage: 400V 50Hz (Three Phase)	No.	\$ 1,300.00
B3/11.2.2	Pump Capacity: from 3 kW upto 4 kW Supply Voltage: 400V 50Hz (Three Phase)	No.	\$ 2,500.00
B3/11.2.3	Pump Capacity: from 4 kW upto 5 kW Supply Voltage: 400V 50Hz (Three Phase)	No.	\$ 3,200.00
B3/11.2.4	Pump Capacity: 30 litre/s @ 9m(H) Supply Voltage: 400V 50Hz (Three Phase)	No.	\$ 10,000.00
B3/11.2.5	Pump Capacity: 13m <sup>3</sup> /hr @ 40m(H)	No.	\$ 3,000.00
B3/11.2.6	Pump Capacity: 65m <sup>3</sup> /hr @ 25m(H)	No.	\$ 4,000.00
B3/11.3	<u>Supply, install, testing and commissioning of heavy duty submersible pump c/w motor (efficiency class = IE3 and above) with built-in overload protector, stainless steel and cast iron construction or as offered good brand type, insulation Class F, maximum liquid temperature 50°C, self-cleaning Vortex system impeller, supplied with 10m H07 RNF cable conforming to current regulations, free passage to 20mm solids and all necessary accessories.</u>		
B3/11.3.1	Pump Capacity: 80 litre/min Output Connection: 32 mmØ or to manufacturer's requirements. Supply Voltage: 230V 50Hz (Single Phase) Motor Capacity: 0.3 HP	No.	\$ 2,800.00
B3/11.3.2	Pump Capacity: 120 litre/min Output Connection: 32 mmØ or to manufacturer's requirements. Supply Voltage: 400V 50Hz (Three Phase) Motor Capacity: 1.0 HP	No.	\$ 4,000.00
B3/11.4	<u>Supply, install, testing and commissioning of heavy duty submersible pump, IP68, c/w motor (efficiency class = IE3 and above) with built-in overload protector, stainless steel and cast iron construction or as offered good brand type, insulation Class F, maximum liquid temperature 50°C, self-cleaning Vortex system impeller, supplied with 10m H07 RNF cable conforming to current regulations and all necessary accessories. (for desulphing and emptying well works)</u>		
B3/11.4.1	Supply Voltage: 220V 50Hz (Single Phase) Motor Capacity: 1.5 kW / 2.0 HP Speed: 2850 RPM	No.	\$ 5,000.00
B3/11.5	<u>Supply, install, testing and commissioning of pressure tank, working pressure of 10 bar, c/w all necessary accessories and connection to service pipe.</u>		
B3/11.5.1	100 Litres	No.	\$ 850.00
B3/11.5.2	300 Litres	No.	\$ 1,400.00
B3/11.5.3	400 Litres	No.	\$ 1,600.00
B3/11.5.4	500 Litres	No.	\$ 1,929.00
B3/11.5.5	750 Litres	No.	\$ 2,500.00
B3/11.5.6	1000 Litres	No.	\$ 3,500.00
B3/11.6	<u>Supply, install, testing and commissioning of pump control panel c/w Variable Frequency Drive, PLC, soft starters, Ammeter, Voltmeter, selector switches, LED indicating lights and all necessary accessories.</u>		
B3/11.6.1	For 2 Pumps (1 Duty & 1 Standby)	No.	\$ 3,500.00
B3/11.6.2	For 3 Pumps (2 Duty & 1 Standby)	No.	\$ 4,500.00
B3/11.6.3	For 4 Pumps (2 Duty & 2 Standby) / (3 Duty & 1 Standby)	No.	\$ 7,500.00
B3/11.7	<u>Supply, install, testing and commissioning of the following parts and associated accessories.</u>		
B3/11.7.1	20 - 25UF pump capacitor	No.	\$ 100.00
B3/11.7.2	Pump handle	No.	\$ 345.00
B3/11.7.3	Pump gasket	No.	\$ 345.00



Item No.	Description	Unit	Rate
B3/11.8	<u>Bearing / Pillow Block Bearing / Bush Bearing</u>		
B3/11.8.1	upto 25mm ID each	No.	\$ 280.00
B3/11.8.2	upto 38mm ID each.	No.	\$ 280.00
B3/11.8.3	upto 50mm ID each.	No.	\$ 400.00
B3/11.8.4	upto 65mm ID each.	No.	\$ 630.00
B3/11.8.5	upto 75mm ID each.	No.	\$ 745.00
B3/11.9	Re-lathe / re-machine of Bearing Core - both end each.	No.	\$ 403.00
B3/11.10	Re-lathe / re-machine of centre shaft of pump shafting.	No.	\$ 575.00
B3/11.11	<u>Pump mechanical seal</u>		
B3/11.11.1	upto 25mm ID each	No.	\$ 219.00
B3/11.11.2	upto 38mm ID each.	No.	\$ 265.00
B3/11.11.3	upto 50mm ID each.	No.	\$ 334.00
B3/11.11.4	upto 65mm ID each.	No.	\$ 403.00
B3/11.11.5	upto 75mm ID each.	No.	\$ 564.00
B3/11.12	<u>Pump O-Ring</u>		
B3/11.12.1	upto 75mm ID each	No.	\$ 150.00
B3/11.12.2	upto 100mm ID each.	No.	\$ 173.00
B3/11.12.3	upto 150mm ID each.	No.	\$ 219.00
B3/11.12.4	upto 180mm ID each.	No.	\$ 334.00
B3/11.12.5	upto 250mm ID each.	No.	\$ 449.00
B3/11.13	PLC c/w necessary works including programming	No.	\$ 1,000.00
B3/11.14	Pump Pressure controller c/w necessary works	No.	\$ 400.00
B3/11.15	Pump Pressure switch c/w necessary works	No.	\$ 175.00
B3/11.16	Pump Pressure gauge c/w necessary works	No.	\$ 90.00
B3/11.17	Float sensor switch, hanger, weatherproof box c/w connection works	No.	\$ 200.00
B3/11.18	Water level sensor c/w necessary works	No.	\$ 600.00
B3/11.19	<u>Pump coupling set</u>		
B3/11.19.1	upto 32mm OD each.	No.	\$ 173.00
B3/11.19.2	upto 50mm OD each.	No.	\$ 173.00
B3/11.19.3	upto 65mm OD each.	No.	\$ 173.00
B3/11.19.4	upto 80mm OD each.	No.	\$ 288.00
B3/11.20	<u>Rubber bush</u>		
B3/11.20.1	upto 25mm ID each	No.	\$ 100.00
B3/11.20.2	upto 38mm ID each.	No.	\$ 100.00
B3/11.20.3	upto 50mm ID each.	No.	\$ 100.00
B3/11.20.4	upto 65mm ID each.	No.	\$ 100.00
B3/11.20.5	upto 75mm ID each.	No.	\$ 200.00
B3/11.21	<u>Motor bearing</u>		
B3/11.21.1	upto 25mm ID each.	No.	\$ 200.00
B3/11.21.2	upto 50mm ID each.	No.	\$ 500.00
B3/11.21.3	upto 75mm ID each.	No.	\$ 700.00
B3/11.21.4	upto 100mm ID each.	No.	\$ 900.00
B3/11.22	<u>Soft starter c/w cable connection</u>		
B3/11.22.1	upto 10kW pump's motor.	No.	\$ 460.00
B3/11.22.2	upto 20kW pump's motor	No.	\$ 863.00
B3/11.22.3	upto 30kW pump's motor	No.	\$ 1,093.00
B3/11.24	Water pump housing zinc cover	No.	\$ 200.00



Item No.	Description	Unit	Rate
B3/11.25	Auto / Manual Selector switch c/w connection works	No.	\$ 100.00
B3/11.26	Water Pump instrumentation c/w revolving light	No.	\$ 1,000.00
B3/11.27	One way valve c/w necessary works required	No.	\$ 230.00
B3/11.28	LED revolving light	No.	\$ 104.00
B3/12.0	<b>OTHERS</b>		
B3/12.1	<u>To dismantle and remove old fitting transported from site to designated storage area / re-position, re-install back c/w connection and termination as per instructed by S.O</u>		
B3/12.1.1	Floodlight	No.	\$ 80.00
B3/12.1.2	Compound light / street lighting lantern	No.	\$ 130.00
B3/12.1.3	High Bay Fitting	No.	\$ 100.00
B3/12.1.4	Ceiling Fan	No.	\$ 15.00
B3/12.1.5	All Surface / recessed type fluorescent fitting	No.	\$ 20.00
B3/12.1.6	Recessed type downlight	No.	\$ 15.00
B3/12.1.7	Wall fan / Auto fan	No.	\$ 15.00
B3/12.1.8	Exhaust fan / industrial fan	No.	\$ 20.00
B3/12.1.9	Electric School bell	No.	\$ 20.00
B3/12.1.10	Water heater	No.	\$ 50.00
B3/12.1.11	TV atenna	No.	\$ 200.00
B3/12.1.12	Compound / Street lighting pole less than 8m high	No.	\$ 250.00
B3/12.1.13	HDG Street lighting pole more than 8m high (include crane work)	No.	\$ 500.00
B3/12.1.14	Obstruction navigation light.	No.	\$ 350.00
B3/12.1.15	Lightning Protection System	No.	\$ 150.00
B3/12.1.16	Pump	No.	\$ 500.00
B3/12.1.17	Control Panel	No.	\$ 300.00
B3/12.1.18	Pump part and accessories	No.	\$ 300.00
B3/12.1.19	Automatic Hand Dryer	No.	\$ 10.00
B3/12.1.20	Distribution Board	No.	\$ 200.00
B3/12.1.21	Air Circuit Breaker (ACB)	No.	\$ 4,800.00
B3/12.1.22	Residual Current Detection (RCD)	No.	\$ 12.00
B3/12.1.23	Earth Leakage Relay (ELR)	No.	\$ 36.00
B3/12.1.24	Zero Sequence Current Transformer (ZCT)	No.	\$ 72.00
B3/12.1.25	Earth Fault Relay (EFR)	No.	\$ 72.00
B3/12.1.26	Overcurrent Relay (OCR)	No.	\$ 72.00
B3/12.1.27	Digital Power meter	No.	\$ 36.00
B3/12.1.28	Analogue Panel Voltmeter	No.	\$ 72.00
B3/12.1.29	Current Transformer	No.	\$ 72.00
B3/12.1.30	HRC Fuse / Cut-out fuse	No.	\$ 24.00
B3/12.1.31	Contactora	No.	\$ 24.00
B3/12.1.32	By-Pass Switch	No.	\$ 36.00
B3/12.1.33	Selector Switch	No.	\$ 120.00
B3/12.1.34	Photozell / timer	No.	\$ 24.00
B3/12.1.35	LED indicator lamp, holder and cover	No.	\$ 12.00
B3/12.1.36	Switch disconnectora / fuses / accessories	No.	\$ 24.00
B3/12.1.37	Electric insect killer fitting	No.	\$ 10.00
B3/12.2	To make good / tidy up existing electrical / telecom / ict wiring in pvc casing / conduit / flexible conduit	Mtr	\$ 4.00
B3/12.3	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	\$ 400.00
B3/12.4	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



Item No.	Description	Unit	Rate
B3/12.5	To provide scaffolding including transportation to site for repair and check light fitting at high ceiling	Lot	\$ 200.00
B3/12.6	To supply and install wooden block	No.	\$ 15.00
B3/12.7	To supply and make good of lost/defective distribution board cover (des approved)	No.	\$ 300.00
B3/12.8	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 circuit more than 800A c/w clearance, tidy up cable, tighten cable etc	Lot	\$ 800.00
B3/12.9	To check rectify, troubleshoot 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
B3/12.10	To cut existing ceiling to provide opening for lighting / to close or patch ceiling opening c/w white paint	No.	\$ 5.00
B3/12.11	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
B3/12.12	Disconnect existing, reconnect back using proper jointing kit c/w necessary cable links, excavation etc for 4c/10mm <sup>2</sup> - 16mm <sup>2</sup> underground cable	PER PT	\$ 280.00
B3/12.13	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
B3/12.14	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, liaison with des for test and commissioning	PER PT	\$ 800.00
B3/12.15	To fabricate and bolted to wall aluminium compartment / aluminium louver including latch lock, hinges and all other necessary accessories required	m2	\$ 100.00
B3/12.16	To repaint existing ceiling fan / oscillating fan/ fan wall exhaust fan including spraying anticorrosive paint	No.	\$ 30.00
B3/12.17	To supply and install 610 mm wide x 13 mm thick, rubber floor-mat for switchboard or motor control centre	Mtr	\$ 88.00
B3/12.18	Relocate all the MCBs and RCDs from the existing distribution board to the new distribution board c/w all necessary wiring including testing and commissioning.	No.	\$ 480.00
B3/12.19	To conduct periodic inspection and testing on the existing distribution board, 5 years interval, as per DES standards and requirements as stated in Electrical Installation Requirements 2011 - First Edition (EIR).	No.	\$ 700.00



APPENDIX









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

Bil. No.	Nama Jawatan Name of Posts	Jumlah Tenaga Manusia Total Manpower
<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:***Tarikh:***Date:***Tandatangan Saksi:***Signature of Witness:***Tarikh:***Date:*

**SENARAI PERALATAN YANG AKAN DIGUNAKAN UNTUK PEKERJAAN INI (JIKA BERJAYA)***Proposed List of Equipment To Be Used For This Job (If Successful):*

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

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

\_\_\_\_\_

**Tarikh:**

Date :

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

\_\_\_\_\_

**Tarikh:**

Date :



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

<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 dokumen 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.

