



DOKUMEN TENDER

MAJLIS PERBANDARAN KAJANG



MPKj T3/2025

**CADANGAN MEROBOH DEWAN SEDIADA DAN
MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2,
DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU
BANGI, MUKIM KAJANG, DAERAH HULU LANGAT,
SELANGOR DARUL EHSAN UNTUK MAJLIS
PERBANDARAN KAJANG**

**Untuk diisi oleh pihak MPKj sahaja*

TENDER TELAH DIBUKA

PADA : _____

MASA : _____

DISAHKAN OLEH :

MPKj

NO. RESIT :

BAYARAN : RM450.00

TARIKH :

T/TANGAN :

CADANGAN MEROBOKH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

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PELAWAAN TENDER

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

1. Tawaran adalah dipelawa kepada kontraktor-kontraktor yang memiliki Sijil Perakuan Pendaftaran Kontraktor (SPPK) dan Sijil Perolehan Kerja Kerajaan (SPKK) dari Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB) dalam gred **G6**, kategori dan pengkhususan **B04 & CE21** berkaitan dan memiliki Sijil Taraf Bumiputera dari Bahagian Pembangunan Kontraktor dan Usahawan (BPKU) bagi perolehan yang berkenaan. Kontraktor / syarikat juga perlu berdaftar dengan Unit Perancang Ekonomi (UPEN) Selangor dan masih dibenarkan membuat tawaran buat masa ini bagi kerja yang berkenaan.
2. Pembelian Dokumen Tawaran hanya boleh dibuat secara atas talian dengan harga **RM450.00 senaskah** (tidak akan dikembalikan). Dokumen Tawaran boleh diperolehi dengan cara memuat turun dokumen di laman sesawang Sistem Tender Online Selangor 2.0 setelah pembayaran berjaya dilakukan.
3. Pembelian Dokumen Tawaran secara atas talian diwajibkan melampirkan salinan resit asal bayaran semasa tarikh tutup tender. Resit tersebut hendaklah dilampirkan di muka surat hadapan dokumen. Kegagalan berbuat demikian boleh menyebabkan Dokumen Tawaran ditolak.
4. Tempoh penjualan Dokumen Tawaran adalah pada **19 MEI 2025 HINGGA 9 JUN 2025**. Dokumen Tawaran tidak akan dikeluarkan selepas dari tarikh tersebut.
5. Dokumen Tawaran yang telah diisi dengan lengkap hendaklah dimasukkan ke dalam sampul surat berlakri yang dicatatkan dengan bilangan tender **T3/2025** serta tajuk tawaran dan hendaklah dimasukkan ke dalam peti tawaran pada masa dan tempat yang ditetapkan dalam Tawaran Iklan Tender. Kegagalan pihak Petender mematuhi syarat-syarat yang ditetapkan boleh menyebabkan tawaran tersebut tidak sah dan **DITOLAK**.
6. Jika Dokumen Tawaran tidak diserahkan dengan tangan, Petender hendaklah menghantar Dokumen tersebut dengan menggunakan perkhidmatan Pos Berdaftar/ Kurier dan memastikan Dokumen tersebut selamat tiba sebelum atau pada masa yang ditetapkan di alamat:

**Yang Dipertua
Majlis Perbandaran Kajang
(Peti Sebut Harga/ Tender)
Tingkat 4**

**Bahagian Pengurusan Kontrak dan Ukur Bahan
Menara MPKj, Jalan Cempaka Putih
Off Jalan Semenyih
43000 Kajang
Selangor Darul Ehsan**

7. Sebarang kelewatan yang timbul dalam urusan tersebut tidak akan dilayan.
8. **Pihak Bahagian Pengurusan Kontrak dan Ukur Bahan tidak akan bertanggungjawab ke atas sebarang kelewatan atau kesilapan Petender melihat tarikh tutup tender semasa membuat penghantaran dokumen tawaran.**

9. Petender diwajibkan menghantar **Profil Syarikat** yang lengkap termasuk **penyata kewangan** bagi tempoh tiga (3) bulan terkini, dilampirkan bersama Dokumen Tawaran yang telah lengkap.
10. Pihak Majlis Perbandaran Kajang tidak terikat untuk menerima mana-mana tender.

Sekian dimaklumkan.

**Yang Dipertua
Majlis Perbandaran Kajang**

DOKUMEN MEJA TAWARAN

**SENARAI SEMAKAN
(KERJA)**Sila tandakan ☐ / ☐ Bagi Dokumen-dokumen Yang Disertakan.

Bil.	Perkara/Dokumen	Untuk Ditanda Oleh Syarikat	Untuk Ditanda Oleh Jawatankuasa Pembuka Tender
1.	Salinan bukti resit pembayaran (Sistem Tender Online Selangor 2.0)		
2.	Salinan Sijil Akuan Pendaftaran Dari Suruhanjaya Syarikat Malaysia (SSM)		
3.	Salinan Sijil Akuan Pendaftaran Dari Kementerian Kewangan (KKM) (Bekalan/Perkhidmatan)		
4.	Salinan Sijil Akuan Bumiputera Dari Kementerian Kewangan (KKM) (Bekalan/Perkhidmatan)		
5.	Salinan Sijil Akuan Pembuat Dari Kementerian Kewangan (KKM) (Bekalan/Perkhidmatan)		
6.	Salinan Sijil Pendaftaran Dari CIDB: 1) Salinan Sijil Perolehan Kerja Kerajaan (SPKK) (Kerja) 2) Salinan Sijil Perakuan Pendaftaran Kontraktor (SPPK) (Kerja) 3) Salinan Sijil Taraf Bumiputra (STB)		
7.	Salinan Sijil Perakuan Pendaftaran Kontraktor Bahagian Pembangunan Kontraktor Dan Usahawan (BPKU) (Kerja)		
8.	Bukti Pendaftaran Dengan UPEN		
9.	Salinan Bukti Pendaftaran SST dengan Jabatan Kastam Diraja Malaysia (JKDM) (Sekiranya berdaftar)		
10.	Borang Tender Telah Diisi Dengan Lengkap (termasuk nilai tawaran dan tempoh siap) dan Ditandatangani		
11.	Surat Akuan Pembida; (Tawaran Tender akan ditolak sekiranya lampiran ini tidak lengkap dan tidak ditandatangani)		
12.	Surat Akuan Pembida Berjaya; (Tawaran Tender akan ditolak sekiranya lampiran ini tidak lengkap dan tidak ditandatangani)		
13.	Borang Pengisytiharan Pemunya Benefisial; (Tawaran Tender akan ditolak sekiranya lampiran ini tidak lengkap dan tidak ditandatangani)		
14.	Surat Akuan Syarikat Dalam Menangani Jenayah Pemerdagangan Orang Dan Buruh Paksa; (Tawaran		

	Tender akan ditolak sekiranya lampiran ini tidak lengkap dan tidak ditandatangani)			
15.	Borang Tender			
16.	Borang Maklumat Petender			
17.	Pematuhan Kepada Spesifikasi			
18.	Borang Penyerahan Contoh Dan Katalog (jika berkaitan)			
19.	Cadangan Penyelenggaraan/Penyenggaraan (jika perlu)			
20.	Senarai Kakitangan Teknikal (jika berkaitan)			
21.	Salinan Penyata Bulanan Akaun Bank bagi tiga (3) bulan terakhir: (Penyata bank yang telah disahkan oleh pihak bank yang mengeluarkan penyata tersebut)	1) Mac 2025		
		2) April 2025		
		3) Mei 2025		
22.	Lain-lain Sekiranya Ada			

PENGESAHAN OLEH SYARIKAT

Dengan ini saya mengesahkan bahawa saya telah membaca dan memahami semua syarat-syarat dan terma yang dinyatakan di dalam Dokumen Tender. Semua maklumat yang dikemukakan adalah benar.

Tandatangan :

Nama :

Jawatan :

Tarikh :

Cop rasmi syarikat :

UNTUK KEGUNAAN JABATAN

Jawatankuasa Pembuka Tender mengesahkan penerimaan dokumen bertanda kecuali bagi perkara bil. (jika ada).

Tandatangan :

Nama :

Jawatan :

Tarikh :

Tandatangan :

Nama :

Jawatan :

Tarikh :

Tandatangan :

Nama :

Jawatan :

Tarikh :

MAJLIS PERBANDARAN KAJANG

SENARAI SEMAKAN MENGEMUKAKAN TENDER PANDUAN KEPADA PETENDER

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

NOTA :

- a. Senarai semakan ini adalah bertujuan bagi menolong Petender mengemukakan satu tender yang lengkap dan tanpa sebarang kesilapan. Semua Petender adalah dinasihatkan supaya menggunakan senarai semakan ini bagi menyemak tender mereka sebelum menyerahkan tender masing-masing.
- b. Segala usaha telah diambil untuk menyenaraikan perkara-perkara yang lazimnya perlu diambil tindakan oleh seorang Petender dalam mengemukakan tendernya. Walaupun begitu, adalah menjadi tanggungjawab Petender sepenuhnya bagi menentukan lengkapnya sesuatu tender yang dikemukakannya itu.
- c. Petender adalah digalakkan menggunakan senarai semakan ini sebagai panduan bahawa sesuatu tindakan perlu diambil atau peringatan bahawa tindakan telah diambil untuk memastikan kesempurnaan tender yang dikemukakan.
- d. Petender adalah bertanggungjawab sepenuhnya bagi memastikan setiap dokumen tender yang dibelinya adalah lengkap dan jika terdapat apa-apa ketidaksempurnaan pada dokumen atau muka surat di dalam dokumen tender berkenaan berdasarkan semakan oleh petender dengan Senarai Semakan Kandungan Dokumen Tender, adalah menjadi tanggungjawab petender untuk merujuk kepada pejabat ini supaya pembetulan kepada ketidaksempurnaan tersebut dapat dibuat.

ARAHAN KEPADA PETENDER

ARAHAN KEPADA PETENDER

1. AM

- 1.1. Arahkan Kepada Petender ini, dalam mana mempengaruhi pelaksanaan Kontrak, hendaklah menjadi sebahagian daripada Kontrak.
- 1.2. Petender hendaklah membaca **Syarat-Syarat Membuat Tender** sebagaimana lampiran kepada Borang Tender.

2. DEFINISI KERAJAAN/MAJIKAN

- 2.1. Istilah “Kerajaan” / “MPKj” di mana jua terdapat dalam Dokumen Tender hendaklah bermaksud “**Majlis Perbandaran Kajang**” melainkan jika konteksnya bermaksud Kerajaan Malaysia atau melainkan jika ia memerlukan sebaliknya. Singkatan MPKj digunakan secara meluas di dalam Dokumen Tender dan ia bermaksud “**Majlis Perbandaran Kajang**”.
- 2.2. Sekiranya didapati dalam Dokumen Tender, istilah “Majikan” atau “Pemaju” atau “Pelanggan” juga bermakna “**Majlis Perbandaran Kajang**” melainkan jika ia konteksnya memerlukan sebaliknya.

3. DOKUMEN TENDER

- 3.1. Setiap petender akan menerima satu (1) set Dokumen Tender lengkap beserta Lukisan Tender (muat turun secara atas talian Sistem Tender Online Selangor 2.0).
- 3.2. Petender adalah bertanggungjawab sepenuhnya bagi memastikan setiap dokumen tender yang dibelinya adalah lengkap dan jika terdapat apa-apa ketidaksempurnaan pada dokumen atau muka surat di dalam dokumen tender berkenaan berdasarkan semakan oleh petender dengan Senarai Semakan Kandungan Dokumen Tender, adalah menjadi tanggungjawab petender untuk merujuk kepada pejabat yang menyediakan dokumen tender supaya pembetulan kepada ketidaksempurnaan tersebut dapat dibuat.
- 3.3. Petender adalah dikehendaki mengisi sepenuhnya perkara-perkara berikut yang menjadi sebahagian daripada Tender iaitu:
 - i) Senarai Semakan Mengemukakan Tender Untuk Kegunaan Petender.
- 3.4. Petender dikehendaki mengisi, melengkapkan dan mengembalikan perkara-perkara berikut:
 - i) Semua Seksyen dalam Dokumen Tender kecuali Lukisan Tender.
 - ii) Borang-borang Maklumat/ Latar Belakang Petender.

**(Rujuk kepada Senarai Semakan Mengemukakan Tender)*

- 3.5. Bagi Dokumen Tender yang dibekalkan dengan salinan softcopy Senarai Kuantiti, Petender hendaklah menghargakan dan mengembalikannya bersama-sama Dokumen Tender pada Tarikh Tutup Tender.

ARAHAN KEPADA PETENDER

- 3.6. Jika tender dihantar dengan menggunakan perkhidmatan pos berdaftar, Petender hendaklah memastikan dokumen tersebut selamat tiba pada alamat yang telah ditetapkan sebelum atau pada Tarikh Tutup Tender selewat-lewatnya pada pukul 12.00 tengah hari. Sebarang kelewatan yang timbul dalam urusan tersebut tidak akan dilayan.

4. TEMPOH SIAP KERJA MAKSIMA

- 4.1. Petender hendaklah menawarkan Tempoh Siap Kerja yang telah ditetapkan selama **DUA PULUH LIMA (25) MINGGU**. Petender yang menawarkan tempoh siap kerja melebihi tempoh di atas tidak akan dipertimbangkan.

5. LAWATAN TAPAK

- 5.1. Lawatan tapak adalah sebagaimana yang dinyatakan di dalam iklan tender.
- 5.2. Jika dinyatakan lawatan tapak sebagai **WAJIB**, petender adalah diwajibkan untuk menghadiri lawatan tapak tersebut pada masa dan tempat yang telah ditetapkan. Kegagalan Petender untuk menghadiri lawatan tapak akan menyebabkan Petender gagal untuk memasuki tender.
- 5.3. Hanya penama dalam Perakuan Pendaftaran Kontraktor (PPK) dan Sijil Perolehan Kerja Kerajaan (SPKK), Pusat Pendaftaran Kontraktor-Kontraktor Kerja, Bekalan Dan Perkhidmatan Negeri Sabah (PUKONSA) atau Unit Pendaftaran Kontraktor dan Juru Perunding Sarawak (UPKJ) yang dibenarkan untuk menyertai lawatan tapak.
- 5.4. Sebarang tuntutan akibat kesilapan dalam menentukan kaedah pembinaan atau menghargakan tender disebabkan kekurangan pengetahuan mengenai keadaan tapak bina tidak akan dilayan.

6. DOKUMEN MEJA TERKAWAL

Petender boleh merujuk Dokumen Meja Tawaran di laman sesawang Majlis Perbandaran Kajang (MPKj) di <http://www.mpkj.gov.my/ms> atau di:

Tempat: Bahagian Pengurusan Kontrak Dan Ukur Bahan
Jabatan Khidmat Pengurusan
Tingkat 4, Menara MPKj
Jalan Cempaka Putih Off Jalan Semenyih
43000 Kajang, Selangor Darul Ehsan

Masa: Isnin hingga Khamis : 9.00am – 1.00pm
2.00pm – 4.00pm

Jumaat : 9.00am – 12.15pm
2.45pm – 4.00pm

ARAHAN KEPADA PETENDER

****Petender adalah diingatkan supaya tidak mengemukakan Dokumen Meja Terkawal sebagai Dokumen Tawaran. Sekiranya Petender menggunakan Dokumen Meja Terkawal sebagai Dokumen Tawaran, dokumen tersebut akan DITOLAK.***

7. SENARAI KUANTITI/RINGKASAN TENDER

- 7.1. Senarai Kuantiti / Ringkasan Tender hendaklah dihargakan dengan **DAKWAT HITAM** yang kekal dan tidak luntur. Jumlah amaun yang dihargakan dalam Senarai Kuantiti / Ringkasan Tender oleh Petender hendaklah sama dengan amaun yang dinyatakan di dalam Borang Tender.
****Jika berlaku kesilapan dalam mengisi maklumat, Penyebut Harga hendaklah menandatangani ringkas semua pembetulan.***
- 7.2. Sekiranya Petender tidak menghargakan atau meletakkan tanda (-) pada mana-mana item di dalam Kerja Awalan/Senarai Kuantiti/Ringkasan Tender, nilai/kadar harga item tersebut adalah dianggap telah termasuk di dalam nilai/kadar harga bagi item-item lain di dalam dokumen tersebut.
- 7.3. Petender yang berjaya hendaklah, dalam masa (7) hari apabila diminta oleh Pegawai Penguasa atau Jurukur Bahan bagi pihaknya mengemukakan pecahan terperinci unit harga untuk sebarang item, kumpulan item atau semua item yang terkandung di dalam Senarai Kuantiti, pecahan harga tersebut hendaklah mengandungi harga untuk buruh, bahan, loji, peralatan dan sebagainya.
- 7.4. Tiada sebarang perubahan, tambahan atau sebarang nota dibenarkan dibuat kepada Dokumen Tender dan/atau Senarai Kuantiti ini yang mengubah teks yang tercetak.

8. PERCANGGAHAN DOKUMEN TENDER

- 8.1. Sekiranya Petender mendapati ada percanggahan di antara Lukisan Tender, Senarai Kuantiti dan/atau Spesifikasi, Petender hendaklah dengan serta merta merujuk kepada pejabat yang mengeluarkan tender:

* Bahagian Pengurusan Kontrak Dan Ukur Bahan
Jabatan Khidmat Pengurusan
Tingkat 4, Menara MPKj
Jalan Cempaka Putih, Off Jalan Semenyih
43000 Kajang, Selangor Darul Ehsan
(No. Tel : 03-8737 7899)
- 8.2. Bahagian ini yang akan menyelesaikan dan/atau mengarahkan yang mana perlu diikuti. Penyelesaian atau arahan tersebut hanya sah jika dibuat dalam bentuk Addendum secara rasmi seperti yang dinyatakan di dalam para 9.0 di bawah.

ARAHAN KEPADA PETENDER

9. ADENDUM

- 9.1. Sebelum tarikh akhir bagi penyerahan Tender, pejabat yang mengeluarkan tender boleh mengeluarkan Adendum untuk menerangkan atau membetulkan sebahagian atau keseluruhan Dokumen Tender. Setiap Adendum yang dikeluarkan akan diedarkan kepada Petender dan menjadi sebahagian daripada Dokumen Tender.
- 9.2. Penerimaan setiap Adendum mestilah diberitahu melalui Borang Pengesahan Penerimaan Adendum yang disertakan bersama-sama Adendum. Petender hendaklah mengembalikan Salinan Borang Pengesahan Penerimaan Adendum sebaik sahaja Adendum diterima.
- 9.3. Adendum hendaklah dikemukakan bersama-sama Dokumen Tender. Kegagalan petender berbuat demikian akan menyebabkan Tender berkenaan **DITOLAK**.

10. PENYERAHAN TENDER

- 10.1. Dokumen Tender hendaklah dilengkapkan dan dimasukkan di dalam sampul surat serta dilakrikan tanpa meletakkan tanda pengenalan Petender pada bahagian luar sampul surat tersebut. Sampul surat yang berlakri tersebut hendaklah dicatatkan dengan nama projek berikut di bahagian atas sebelah kanan iaitu:

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

NO. TENDER: MPKj T3/2025

dan dihantar sendiri dengan tangan atau melalui perkhidmatan pos berdaftar kepada:

**Yang Dipertua Majlis Perbandaran Kajang
(Peti Sebut Harga/ Tender)
Tingkat 4
Bahagian Pengurusan Kontrak Dan Ukur Bahan
Jabatan Khidmat Pengurusan
Menara MPKj
Jalan Cempaka Putih, Off Jalan Semenyih
43000 Kajang, Selangor Darul Ehsan**

dan hendaklah dimasukkan ke dalam **Peti Tender** tidak lewat atau pada pukul 12.00 tengahari pada tarikh tutup tender. Mana-mana Tender yang sampai selepas masa dan Tarikh yang ditetapkan, atas sebarang sebab dan alasan tidak akan dipertimbangkan. Tanpa sebarang obligasi, Kerajaan tidak bertanggungjawab ke atas mana-mana Tender yang telah dihantar tetapi didapati hilang atau lewat diterima. Bukti pos tidak akan diterima sebagai bukti penghantaran mana-mana Tender.

ARAHAN KEPADA PETENDER

11. INTERPRETASI SECARA LISAN

11.1. Interpretasi secara lisan kepada mana-mana bahagian Dokumen Tender atas permintaan dan/atau diterima Petender hendaklah tidak di ambil kira sebagai membetulkan sebarang peruntukan dan syarat-syarat yang terkandung di dalam Dokumen Tender. Sebarang pemberitahuan atau pembetulan kepada mana-mana bahagian di dalam Dokumen Tender akan dibuat secara bertulis oleh **YANG DIPERTUA** di dalam bentuk Adendum seperti yang dinyatakan di para 8 dan 9 di atas.

12. NOTIS KEPADA PETENDER

12.1. Setiap notis yang hendak diberi kepada Petender akan dihantar ke alamat yang dinyatakan dalam Perakuan Pendaftaran Kontraktor (PPK) sama ada melalui pos atau pos berdaftar atau pos laju atau serahan tangan atau e-mel atau faksimili. Kaedah pemberitahuan ini hendaklah disifatkan sebagai Penyampaian Notis yang sempurna.

13. BANTAHAN OLEH PETENDER

13.1. Bantahan rasmi secara bertulis yang disertai dengan butir-butir lengkap berkaitan dengan Dokumen Tender, Spesifikasi, Lukisan dan/atau Senarai Kuantiti yang menjurus kepada sesuatu jenama (jenis) tertentu boleh dibuat oleh Petender dalam tempoh Empat Belas (14) hari dari tarikh dokumen tender mula dijual. Bantahan yang diterima selepas tempoh tersebut tidak akan dipertimbangkan. Bantahan hendaklah dialamatkan kepada pejabat yang mengeluarkan tender.

Bantahan hendaklah dialamatkan kepada:

* Bahagian Pengurusan Kontrak Dan Ukur Bahan
Jabatan Khidmat Pengurusan
Tingkat 4, Menara MPKj
Jalan Cempaka Putih
Off Jalan Semenyih
43000 Kajang, Selangor Darul Ehsan

No. Tel: 03-8737 7899

14. PETENDER USAHASAMA

14.1. Perjanjian Usahasama.

- i. Petender yang berhasrat untuk memasuki tender secara usahasama hendaklah mengemukakan Perjanjian Usahasama semasa mengemukakan dokumen tender. Perjanjian tersebut hendaklah mengandungi pegangan ekuiti setiap rakan usahasama dan bertanggungjawab secara 'jointly & severally' dan ditandatangani oleh kesemua rakan usahasama dan disetemkan.

ARAHAN KEPADA PETENDER

- ii) Bagi tender kerja yang disertai oleh beberapa syarikat tempatan secara usahasama, kesemuanya hendaklah berdaftar dengan LIPIM dan mempunyai PPK dan SPKK, PUKONSA atau UPKJ dalam gred, kategori dan pengkhususan yang ditetapkan mengikut nilai tender.
- iii) Bagi perolehan yang dikhaskan kepada Bumiputera, syarikat usahasama yang menyertainya mestilah kesemuanya bertaraf Bumiputera dan mempunyai Sijil Taraf Bumiputera (STB) yang sah daripada PUSAT KHIDMAT KONTRAKTOR (PKK), Kementerian Pembangunan Usahawan. Manakala bagi perolehan yang tidak dikhaskan kepada Bumiputera maka syarikat usahasama yang dibenarkan menyertai perolehan boleh terdiri sama ada kesemuanya bertaraf Bumiputera atau salah satu bertaraf Bumiputera atau kesemuanya bukan Bumiputera.

14.2. Borang-Borang Maklumat Dan Dokumen Wajib/Sokongan

- i) Petender dikehendaki mengisi borang-borang maklumat seperti di perenggan 1.2 Bahagian B: Tatacara Penilaian Tender Kerja Kecil secara berasingan. Petender juga hendaklah mengemukakan dokumen-dokumen sokongan seperti yang dinyatakan di perenggan 1.4 secara berasingan untuk menyokong maklumat-maklumat yang dinyatakan.

14.3. Kelayakan Asas Petender

- i) Borang Tender/Surat Akuan Pembida (Integrity Pact) hendaklah ditandatangani oleh kesemua rakan usahasama sepertimana di dalam Surat Perjanjian Usahasama.

14.4. Pengiraan Kecukupan Modal Minimum

- i) Penilaian Modal Minimum bagi petender usahasama/gabungan dianalisa secara berasingan dan digabungkan mengikut faktor ekuiti masing-masing.

14.5. Prestasi Kerja Semasa

- i) Prestasi kerja semasa bagi petender usahasama/gabungan dianalisa berasaskan kerja-kerja semasa yang dilaksanakan oleh setiap ahli usahasama/gabungan. Status prestasi kerja semasa petender usahasama/gabungan adalah berdasarkan kepada prestasi terendah ahli usahasama/gabungan.

14.6. Beban Kerja Semasa

- i) Beban kerja semasa bagi petender usahasama/gabungan dianalisa secara berasingan berasaskan jumlah nilai baki kerja dalam tangan oleh setiap ahli usahasama/gabungan. Penilaian beban adalah berdasarkan kepada nilai baki kerja tertinggi ahli usahasama/gabungan dan rujukan kepada Laporan Penyelia Projek mengenai kemajuan kerja petender usahasama/gabungan.

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14.7. Pengalaman Kerja

- i) Pengalaman kerja petender usahama/gabungan adalah berdasarkan pengalaman yang digabungkan.

15. TEMPOH SAH LAKU TENDER

Tender hendaklah terus sah selama tempoh **Sembilan Puluh (90)** hari dari Tarikh Tutup Tender dan Petender tidak dibenarkan sama sekali menarik diri dalam tempoh tersebut. Seandainya Petender menarik diri dalam Tempoh Sah Tender atau sebarang tempoh yang dilanjutkan atau enggan menerima sesuatu tender setelah ditawarkan kepadanya, tindakan tatatertib akan diambil terhadapnya.

16. KEPUTUSAN TENDER ADALAH MUKTAMAD

Kerajaan tidak terikat untuk menerima mana-mana tawaran dari petender-petender. Keputusan mengenai tender yang dikeluarkan adalah muktamad. Sebarang surat menyurat mengenai keputusan tender tidak akan dilayan.

17. PENERIMAAN ATAU PENOLAKAN TENDER

17.1. Kerajaan berhak untuk menolak mana-mana atau keseluruhan Tender. Mana-mana tender yang tidak lengkap, tidak jelas atau tidak mematuhi arahan, tidak akan dipertimbangkan.

17.2. Pihak Kerajaan adalah tidak terikat untuk menyetujui terima Tender terendah atau sebarang tender, dan juga tidak perlu memberikan sebarang alasan terhadap mana-mana Tender yang ditolak.

18. IKLAN

Petender tidak dibenarkan menyiarkan apa-apa maklumat mengenai tender di dalam sebarang media.

19. KOS TENDER

Kerajaan tidak akan dipertanggungjawabkan untuk membayar apa-apa kos atau perbelanjaan atau kerugian yang dialami oleh Petender di dalam penyediaan atau penghantaran tender beliau.

20. PELARASAN HARGA DAN KADAR HARGA

Ringkasan Tender dan / atau Jadual Kadar Harga atau Senarai Kuantiti akan diteliti dan diselaraskan oleh Kerajaan untuk memastikan kemunasabahannya sebelum tender disetujui terima sebagaimana yang diperuntukkan di bawah Fasal 26 Syarat-Syarat Kontrak JKR203/JKR 203A. Harga dan kadar harga yang diselaraskan hendaklah tidak mengubah jumlah harga di Borang Tender.

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21. PELAKSANAAN 'INTEGRITY PACT' DALAM PEROLEHAN KERAJAAN

- 21.1. Petender wajib mengemukakan **Surat Akuan Pembida** seperti di **Lampiran A** bersama-sama dengan Dokumen Tender di mana Petender berwaad untuk tidak akan menawarkan atau memberi rasuah kepada mana-mana individu lain sebagai sogokan untuk dipilih dalam tender tersebut. Surat Akuan Pembida ini hendaklah dilengkapkan dan ditandatangani oleh Pegawai Syarikat yang Ditaulliahkan.
- 21.2. Surat Akuan Pembida tersebut adalah menjadi salah satu dokumen **WAJIB** dalam penilaian tender peringkat pertama. Sekiranya petender gagal mengemukakan Surat Akuan Pembida yang telah dilengkapkan dan ditandatangani, petender tersebut akan dinilai sebagai gagal dalam penilaian peringkat pertama dan penilaian seterusnya tidak akan dilaksanakan.
- 21.3. Petender yang berjaya wajib mengemukakan dan menandatangani **Surat Akuan Pembida Berjaya** seperti di **Lampiran A1** beserta dengan Surat Setuju Terima yang telah ditandatangani di mana ia berwaad tidak akan memberi rasuah sebagai ganjaran kerana mendapatkan kontrak. Surat Akuan ini akan menjadi sebahagian daripada Dokumen Kontrak.

22. PENGISYTIHARAN PEMUNYA BENEFISIAL DAN SURAT AKUAN SYARIKAT DALAM MENANGANI JENAYAH PEMERDAGANGAN ORANG DAN BURUH PAKSA

- 22.1. Pekeliling Perbendaharaan /Perolehan Kerajaan 1.6 telah dikemaskini selaras dengan peruntukan perundangan di bawah Akta Syarikat (pindaan) 2024 [Akta A1701] dan Akta Antipemerdagangan Orang dan Antipenyeludupan Migran 2007 [Akta 670].
- 22.2. Akta Syarikat (pindaan) 2024 [Akta A1701]
- i) Akta A1701 yang diwartakan pada 2 Februari 2024 telah mewajibkan setiap Syarikat yang berdaftar dengan Suruhanjaya Syarikat Malaysia (SSM) untuk mengisytiharkan Pemunya Benefisial (*Beneficial Owners – BO*) bagi memerangi aktiviti-aktiviti pengubahan wang haram, pembiayaan keganasan, rasuah dan pengeluaran cukai perniagaan di Malaysia.
 - ii) Tafsiran dan kriteria BO boleh dirujuk kepada *Guideline For The Reporting Framework For Beneficial Ownership Of Legal Persons* yang boleh dimuat turun dari laman sesawang SSM iaitu www.ssm.com.my.
 - iii) Penyebut Harga/Petender* **hendaklah** melaksanakan pengisytiharan BO dengan mengemukakan Borang Pengisytiharan BO seperti di **Lampiran B** untuk menyertai perolehan Kerajaan yang bernilai melebihi **RM50 ribu**.
 - iv) Penyebut Harga/Petender* hendaklah memastikan BO diisi dengan lengkap, ditandatangani dan dikemukakan atau dimuat naik bersama dokumen tawaran sebut harga/tender* secara manual atau secara dalam talian sepertimana yang telah ditetapkan.

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- v) Kegagalan penyebut harga/petender* untuk mengemukakan BO akan menyebabkan sebut harga/tender yang disertai **ditolak**.

22.3. Akta Antipemerdagangan Orang dan Antipenyeludupan Migran 2007 [Akta 670]

- i) Selaras dengan Akta 670 satu akaun atau pengisytiharan oleh Penyebut Harga/Petender* perlu dilaksanakan bagi meningkatkan kesedaran tentang hak pekerja, perlindungan dan akses kepada remedi.
- ii) Penyebut Harga/Petender* yang menyertai perolehan Kerajaan adalah diwajibkan untuk menandatangani Surat Akaun Syarikat Dalam Menangani Jenayah Pemerdagangan Orang Dan Buruh Paksa (SA) seperti **Lampiran C**.
- iii) Penyebut Harga/Petender* hendaklah memastikan SA diisi dengan lengkap, ditandatangani dan dikemukakan atau dimuat naik bersama dokumen tawaran sebut harga/tender secara manual atau secara dalam talian sepertimana yang telah ditetapkan.
- iv) Kegagalan Penyebut Harga/Petender* untuk mengemukakan SA akan menyebabkan sebut harga/tender* yang disertai ditolak.
- v) Kegagalan penyebut harga/petender* untuk mengemukakan BO akan menyebabkan sebut harga/tender yang disertai **ditolak**.

22.4. Bagi sebut harga/tender* yang disertai oleh beberapa syarikat yang berdaftar dengan SSM secara usahasama, kesemua syarikat hendaklah mengemukakan BO dan SA semasa mengemukakan tawaran.

23. **PERINGATAN MENGENAI KESALAHAN RASUAH**

23.1. Semua Petender adalah diingatkan supaya tidak terlibat dalam aktiviti jenayah rasuah berkaitan dengan perolehan ini. Sehubungan dengan itu para petender diberi peringatan seperti berikut:

- i) Sebarang perbuatan atau percubaan rasuah untuk menawar atau memberi, meminta atau menerima apa-apa suapan rasuah kepada dan daripada mana-mana orang berkaitan perolehan ini merupakan suatu kesalahan jenayah di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 (Akta 694).
- ii) Sekiranya mana-mana pihak ada menawar atau memberi apa-apa suapan kepada mana-mana anggota pentadbiran awam, maka pihak yang ditawarkan atau diberi suapan dikehendaki membuat aduan dengan segera ke pejabat Suruhanjaya Pencegahan Rasuah Malaysia atau balai polis yang berhampiran. Kegagalan berbuat demikian adalah merupakan suatu kesalahan dibawah Akta Suruhanjaya Pencegahan Rasuah 2009 (Akta 694).

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- iii) Tanpa prejudis kepada tindakan-tindakan lain, tindakan tatatertib dan menyenaraihitamkan kontraktor atau pembekal boleh diambil sekiranya pihak-pihak terlibat dengan kesalahan rasuah di bawah Akta Suruhanjaya Pencegah Rasuah Malaysia 2009 (Akta 694).
- iv) Mana-mana kontraktor atau pembekal yang membuat tuntutan bayaran berkaitan perolehan ini walaupun tiada kerja dibuat atau tiada barangan dibekalkan mengikut spesifikasi yang ditetapkan atau tiada perkhidmatan diberi adalah melakukan kesalahan dibawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 (Akta 694).

24. PELAKSANAAN REKA BENTUK INDUSTRIALISED BUILDING SYSTEM (IBS)

- 24.1. Sejarar dengan pematuhan kepada peraturan semasa reka bentuk projek hendaklah berdasarkan reka bentuk komponen IBS. Petender yang berjaya tidak akan dibenarkan menukarnya kepada reka bentuk konvensional dalam apa keadaan sekalipun.
- 24.2. Petender yang berjaya dikehendaki untuk menyemak dan memeriksa lukisan komponen IBS untuk memastikan kecukupan reka bentuk/perincian yang diperlukan bagi tujuan pembinaan/pemasangan di tapak bina. Sekiranya Petender yang berjaya perlu mengesyorkan sebarang reka bentuk, beliau hendaklah mengemukakan semua lukisan, spesifikasi, pengiraan dan maklumat yang berkaitan kepada Pegawai Penguasa untuk kelulusan.

25. PEMANSUHAN PERUNTUKAN SYARAT PERUBAHAN HARGA (VARIATION OF PRICE) DALAM KONTRAK

- 25.1. Petender-Petender diberitahu bahawa Tender ini adalah berdasarkan harga tender tetap. Petender-petender juga diberitahu bahawa klausa 30 Syarat-Syarat Kontrak P.W.D Form 203 / 203A (Rev. 1/2010) berkaitan dengan Turun Naik Harga tidak lagi terpakai. Dengan ini, petender adalah dinasihatkan untuk mengambil kira kesemua risiko yang terlibat semasa tempoh kontrak berjalan dalam Harga Tendernya.

26. LARANGAN PEMINDAHAN EKUITI SYARIKAT SEPANJANG TEMPOH KONTRAK

Petender yang berjaya dipilih bagi perolehan ini tidak boleh memindahkan milik ekuiti syarikat sepanjang tempoh kontrak berkuat kuasa kecuali mendapat kelulusan bertulis **KERAJAAN MALAYSIA** terlebih dahulu.

27. INSURAN

Sebagaimana yang dinyatakan dalam Syarat-syarat Kontrak, sebagai satu syarat terdahulu sebelum memulakan apa-apa kerja di bawah Kontrak, Petender mestilah mengambil dan mengemukakan insuran yang diperlukan kepada Pegawai Penguasa.

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28. BON PELAKSANAAN

- 28.1. Bon Pelaksanaan adalah suatu aku janji tidak bersyarat oleh sesuatu institusi kewangan yang diluluskan oleh Kerajaan untuk membayar kepada Kerajaan suatu amaun tertentu atas tuntutan Kerajaan sekiranya syarikat tidak atau gagal mematuhi dan melaksanakan obligasinya di bawah kontrak.
- 28.2. Petender yang berjaya hendaklah mengemukakan Bon Pelaksanaan sebanyak lima peratus (5%) daripada Jumlah Harga Kontrak sebelum memulakan kerja. Petender dikehendaki menggunakan format Bon Pelaksanaan seperti yang dilampirkan tanpa sebarang pindaan.
- 28.3. Sekiranya kaedah Wang Jaminan Pelaksanaan dipilih/dikenakan, potongan sebanyak sepuluh peratus (10%) daripada bayaran kemajuan pertama dan seterusnya akan dikenakan sehingga ia mencapai jumlah lima peratus (5%) daripada Jumlah Harga Kontrak.
- 28.4. Petender yang berjaya hendaklah memastikan Bon Pelaksanaan sentiasa sah dan berkuat kuasa dalam tempoh yang ditetapkan. Tempoh sah laku Bon Pelaksanaan adalah berdasarkan nilai projek seperti berikut:

Nilai Projek	Tempoh Sah Laku Bon Pelaksanaan
Kos Projek sehingga RM10 Juta	<ul style="list-style-type: none">• Dari tarikh kuat kuasa kontrak sehingga 12 bulan selepas tamat Tempoh Tanggungan Kecacatan (DLP).• Format dan kandungan seperti di Lampiran F

- 28.5. Petender diingatkan untuk mengambil kira tempoh sah laku Bon Pelaksanaan mengikut nilai projek semasa menghargakan tender. Sebarang rayuan akibat kegagalan kontraktor untuk mengambil kira tempoh sah laku bon pelaksanaan semasa menghargakan tender tidak akan dilayan.

29. MEMATUHI AKTA LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA (CIDB) 1994 (AKTA 520)

Petender yang berjaya bagi semua tender yang bernilai melebihi RM 500,000.00 akan dikenakan levi sebanyak perpuluhan dua lima peratus (0.25%) daripada nilai harga kontrak seperti yang ditetapkan di bawah seksyen 34(2) Akta Lembaga Pembangunan Industri Pembinaan Malaysia (LPIPM) 1994 (Akta 520). Sehubungan dengan itu, adalah menjadi tanggungjawab Petender yang berjaya untuk membuat bayaran levi kepada pihak LPIPM.

30. DENDA GANTI RUGI TERTENTU DAN DITETAPKAN (LAD)

- 30.1. Petender akan dikenakan Denda Ganti Rugi Tertentu dan Ditetapkan (LAD) sekiranya tidak dapat menyiapkan kerja dalam tempoh yang telah ditawarkan atau apa-apa dalam tempoh lanjutan yang diperuntukan seperti di bawah:

$$\text{LAD Perday} = \frac{\% \text{ BLR} \times \text{Contract Sums}}{365}$$

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31. PELAKSANAAN CUKAI JUALAN DAN CUKAI PERKHIDMATAN (CJCP)

- 31.1. Semua tawaran harga bekalan/ perkhidmatan oleh pembekal/ syarikat hendaklah dikemukakan **TANPA KENAAN CJCP**;
- 31.2. Pembekal/ Syarikat hendaklah mengisytiharkan status pendaftaran dan mengemukakan nombor pendaftaran CJCP kepada pihak MPKj;
- 31.3. Sekiranya syarikat yang berjaya adalah berdaftar dengan Jabatan Kastam Diraja Malaysia (JKDM), MPKj akan mengeluarkan Surat Setuju Terima/ Pesanan Tempatan/ Inden Kerja kepada Syarikat dengan tawaran harga termasuk CJCP; dan
- 31.4. Bagi pembekal/ syarikat yang mengisytiharkan tidak berdaftar dengan JKDM, namun akan menjadi syarikat yang berdaftar dengan JKDM setelah ditawarkan perolehan tersebut, maka syarikat hendaklah memaklumkan nombor pendaftaran dan Tarikh kuatkuasa kepada pihak MPKj berkenaan perubahan status pendaftaran syarikat tersebut untuk pelarasan harga kontrak dalam tempoh tujuh (7) hari dari Tarikh surat kelulusan JKDM (sila lampirkan surat pengesahan pendaftaran CJCP daripada JKDM). Pelarasan harga kenaan CJCP hendaklah dimuktamadkan oleh Pegawai Pengawal.
- 31.5. Pelaksanaan Cukai Jualan dan Cukai Perkhidmatan (CJCP) Dalam Perolehan Kerajaan
- i) Cukai Jualan adalah dikenakan dan dilevikan ke atas barang yang dikilangkan oleh pengilang berdaftar di Malaysia atau barang yang diimport ke dalam Malaysia yang ditetapkan di bawah Akta Cukai Jualan 2018 serta peraturan dan perintah cukai jualan yang berkuat kuasa.
 - ii) Cukai Perkhidmatan adalah dikenakan dan dilevikan ke atas mana-mana perkhidmatan yang ditetapkan oleh Kerajaan di bawah Akta Cukai Perkhidmatan 2018 dan peraturan semasa yang berkuat kuasa.
 - iii) Bagi barangan yang diimport atau yang dibeli daripada pengilang berdaftar oleh Kerajaan Persekutuan, Kerajaan Negeri dan Pihak Berkuasa Tempatan (PBT) adalah dikecualikan daripada Cukai Jualan melainkan petroleum dan kenderaan import dengan syarat tertentu.
 - iv) Pengecualian yang diberikan kepada Kerajaan Persekutuan, Kerajaan Negeri atau PBT bukan sahaja ke atas pengimportan atau pembelian yang dibuat sendiri, tetapi terpakai jua sekiranya Agensi Kerajaan tersebut melantik pihak ketiga untuk mengimport atau membeli daripada pengilang berdaftar cukai jualan. Pengecualian daripada kenaan Cukai Jualan hendaklah dibuat dengan pengeluaran Sijil Di Bawah Perintah Cukai Jualan (Orang Yang Dikecualikan Daripada Pembayaran Cukai) 2018.

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31.6. Tawaran Harga Syarikat

- i) Bagi perolehan perkhidmatan, semua tawaran harga oleh syarikat hendaklah dikemukakan dengan dinyatakan harga tawaran perkhidmatan dan Cukai Perkhidmatan secara berasingan. Sekiranya Perkhidmatan dan syarikat yang Berjaya adalah berdaftar CJCP dengan JKDM, maka Agensi Kerajaan perlu menawarkan nilai perolehan termasuk kenaan Cukai Perkhidmatan.
- ii) Syarikat hendaklah diberitahu bahawa pada bila-bila masa setelah berdaftar dengan JKDM, syarikat hendaklah memaklumkan Agensi supaya Cukai Perkhidmatan boleh dibayar oleh Kerajaan. Kegagalan atau kelewatan syarikat untuk memaklumkan kepada Kerajaan mengenai status pendaftaran dengan JKDM akan menyebabkan syarikat perlu menanggung CJCP dan tidak layak untuk apa-apa bayaran daripada Kerajaan.

32. PERUBAHAN DAN PELANJUTAN TEMPOH BAGI KONTRAK BEKALAN DAN PERKHIDMATAN ATAU KERJA

- 32.1. Perubahan adalah sesuatu perubahan daripada kontrak bekalan dan perkhidmatan atau kontrak kerja bermaksud sebarang penyimpangan daripada perjanjian kontrak berkaitan dengan pelan, spesifikasi dan/atau Senarai Kuantiti sama ada dipinda, ditambah atau dikurangkan.
- 32.2. Perubahan dan pelanjutan tempoh kontrak bagi perolehan perlu mendapatkan kelulusan oleh pihak berkuasa yang meluluskan perolehan dengan syarat-syarat berikut sahaja:
 - i) Tempoh sah laku kontrak masih berkuat kuasa semasa permohonan perubahan dan pelanjutan tempoh kontrak untuk dipertimbangkan oleh Pihak Berkuasa Melulus;
 - ii) Perubahan kontrak tidak menukar sebahagian besar skop kerja asal atau pengurangan adalah skop dan perubahan spesifikasi yang tidak mengubah fungsi asal, dan pelanjutan tempoh kontrak yang tidak mengubah kadar harga atau melibatkan penurunan kadar harga dan syarat-syarat lain dalam kontrak;
 - iii) Bagi kerja tambahan, pelaksanaannya hendaklah di tapak bina kontrak;
 - iv) Bagi kerja gantian, perubahan adalah di dalam skop kontrak asal dan kerja asal yang ditentukan dalam skop kontrak asal hendaklah dapat dikenal pasti dalam kerja-kerja gantian tersebut; dan
 - v) MPKj tidak terikat untuk menyetujui terima permohonan dan juga tidak terikat untuk memberikan sebarang alasan terhadap permohonan yang ditolak.
- 32.3. Sebelum mengeluarkan arahan perubahan kerja, pegawai yang bertanggungjawab hendaklah memastikan yang kerja tersebut benar-benar perlu dan ada peruntukan yang mencukupi bagi menampung perbelanjaan tambahan dan kelulusan hendaklah diperolehi terlebih dahulu.

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33. DOKUMEN PERJANJIAN

- 33.1. Petender yang berjaya hendaklah menandatangani Perjanjian Perkhidmatan/ Kerja/ Pembekalan yang telah disediakan oleh Majlis Perbandaran Kajang. Syarat-syarat di dalam dokumen tender ini akan menjadi sebahagian daripada syarat-syarat perjanjian.
- 33.2. Petender yang berjaya hendaklah menjelaskan diti setem dan fi perjanjian yang ditetapkan oleh Majlis Perbandaran Kajang ke atas harga kontrak keseluruhan tidak termasuk cukai jualan dan perkhidmatan mengikut formula Kadar Fi Perjanjian bagi dokumen perjanjian yang disediakan oleh Majlis Perbandaran Kajang seperti Jadual berikut:

NILAI HARGA KONTRAK	SKALA FI PERJANJIAN
RM150,000.00 yang pertama ATAU kurang	1.5% (tertakluk kepada caj minimum RM450.00)
Baki selepas ditolak RM150,00.00 yang pertama	0.75% (ke atas baki)

34. PEMBATALAN TAWARAN

- 34.1. Pihak Majlis berhak untuk membatalkan tawaran tender ini pada bila-bila masa, tanpa memberi sebarang notis awal. Sebarang kos hendaklah ditanggung oleh petender dan pihak Majlis tidak akan memulangkan kos tersebut

35. HARGA INDIKATIF

- 35.1. Harga Indikatif Jabatan bagi Tender ini adalah Ringgit Malaysia: **TUJUH JUTA LIMA RATUS LIMA PULUH RIBU SAHAJA (RM7,550,000.00).**
- 35.2. Harga Indikatif Jabatan ini merupakan suatu anggaran sahaja dan amaun tersebut tidak mengikat pihak majlis atau mana-mana pihak lain juga bagi maksud mengelakkan kekeliruan yang mungkin berbangkit.
- 35.3. Pihak majlis tidak menjamin bahawa syarikat akan dipilih atau boleh menyiapkan kerja dengan bersandarkan Harga Indikatif Jabatan.

36. MAKLUMAT-MAKLUMAT YANG DIPERLUKAN UNTUK PENILAIAN KEUPAYAAN PETENDER

- 36.1. Petender-petender hendaklah mengambil maklum bahawa penilaian Tender ini akan mengambilkira dan mementingkan **keupayaan petender** untuk melaksanakan projek yang ditender, disamping kemunasabahan harga tender.
- 36.2. Justeru itu, keupayaan petender-petender akan dinilai semasa penilaian Tender. Penilaian ini akan dibuat berasaskan **kelayakan asas tender, kedudukan kewangan, dan keupayaan teknikal (prestasi, dan beban kerja semasa serta pengalaman kerja) petender dan penilaian teknikal (kerja Mekanikal & Elektrik) bagi komponen/peralatan dan prestasi kerja semasa petender.**

ARAHAN KEPADA PETENDER

36.3. Untuk membolehkan penilaian dibuat, petender dikehendaki melengkapkan borang-borang berikut yang disertakan bersama Dokumen Tender ini dengan sempurna dan mengembalikannya bersama-sama dengan tender masing-masing:

- i) **Borang A** - Surat Pengakuan Kebenaran Maklumat dan Kesahihan Dokumen yang Dikemukakan oleh Petender;
- ii) **Borang B** - Maklumat Am dan Latar Belakang Petender;
- iii) **Borang C** - Data-Data Kewangan;
- iv) **Borang CA** - Laporan Bank/ institusi Kewangan Mengenai Kemudahan Kredit
- v) **Borang CA1** - Kebenaran untuk Mendapatkan Maklumat Kewangan (Akaun Bank)
- vi) **Borang D** - Rekod Pengalaman Kerja
- vii) **Borang E** - Kakitangan Teknikal
- viii) **Borang G** - Senarai Kerja Kontrak Semasa
- ix) **Borang GA** - Laporan Jurutera Projek atas Prestasi Kerja Semasa Petender (Bukan Projek MPKj)
- x) **Borang GA1** - Laporan Jurutera Projek atas Prestasi Kerja Semasa Petender (Projek MPKj)

36.4. Borang-borang ini hendaklah diisi dengan maklumat-maklumat yang benar dan data-data yang tepat. Semua butiran perlu diisi dan jawapan yang jelas hendaklah diberikan terhadap semua pertanyaan di dalam borang-borang di atas. Jika perlu helaian tambahan boleh dilampirkan. Setiap helaian tambahan yang dilampirkan kepada borang-borang lain hendaklah ditandatangani oleh petender.

36.5. Bagi memastikan kesahihan maklumat dan data yang diterima daripada petender seperti di perenggan 35.2, maklumat tersebut hendaklah disokong dengan dokumen-dokumen berikut untuk tujuan penilaian.

- i) Perakuan/Sijil Pendaftaran
 - a. Salinan Sijil Suruhanjaya Syarikat Malaysia (SSM);
 - b. Salinan Sijil Akuan Pendaftaran Daripada Kementerian Kewangan Malaysia (KKM) (jika berkaitan);
 - c. Salinan Sijil Akuan Bumiputera Daripada Kementerian Kewangan Malaysia (KKM) (jika berkaitan);

ARAHAN KEPADA PETENDER

- d. Perakuan Pendaftaran Kontraktor (PPK) CIDB;
 - e. Sijil Perolehan Kerja Kerajaan (SPKK) CIDB;
 - f. Bukti Pendaftaran Syarikat dengan Unit Perancang Ekonomi Negeri (UPEN);
 - g. Sijil Taraf Bumiputera (STB) dari Pusat Khidmat Kontraktor (PKK) (jika berkaitan);
 - h. Pendaftaran Jabatan Kastam Diraja Malaysia (JKDM) atau lain-lain lesen yang berkaitan dengan projek dan perlu disertakan bersama-sama Dokumen Tawaran.
- ii) Surat Pengakuan Kebenaran Maklumat dan Kesahihan Dokumen
- a. Petender **WAJIB** mengisi dan menandatangani **Borang A**. Kegagalan mengemukakan **Borang A** yang lengkap akan menyebabkan petender tidak layak dinilai.
- iii) Maklumat Kewangan
- a. Petender hendaklah mengisi **Borang C** (Data-data Kewangan). Dokumen ini akan menjadi panduan semakan semula dan bukti penerimaan dokumen-dokumen wajib.
 - b. Mengemukakan salinan Akaun Syarikat yang telah disahkan dan diaudit oleh Juruaudit yang bertauliah, bagi dua (2) tahun kewangan terakhir.
 - c. Mengemukakan salinan Penyata Akaun Bank mengenai Wang Dalam Tangan petender bagi **Tiga (3) Bulan Terakhir** sebelum tarikh tutup Tender. (Penyata bank yang telah **disahkan** asal oleh pihak bank yang mengeluarkan penyata tersebut).
 - d. Laporan bank/institusi kewangan mengenai kedudukan kewangan petender, atas format seperti di **BORANG CA** yang **ditandatangani** oleh pegawai yang diberi kuasa oleh bank/institusi kewangan berkenaan.
 - e. Melengkapkan borang Kebenaran Untuk Mendapatkan Maklumat Kewangan (Akaun Bank) seperti di **BORANG CA1**.
- iv) Maklumat Teknikal
- a. Petender dikehendaki menyenaraikan kerja-kerja yang telah dilaksanakan di **Borang D** berserta dokumen-dokumen sokongan sekiranya mempunyai pengalaman kerja. Bagi petender yang tidak mempunyai pengalaman kerja, sila catatkan **"Tiada Pengalaman"** di **Borang D**. Kegagalan petender untuk mengemukakan salah satu atau sebahagian daripada dokumen-dokumen sokongan di **Borang D** akan mengakibatkan maklumat tersebut tidak dapat disemak kerana ketidakcukupan dokumen. Hal ini boleh menyebabkan maklumat tersebut tidak diambil kira.

ARAHAN KEPADA PETENDER

- b. Petender dikehendaki melengkapkan butir-butir kakitangan teknikal yang ada dalam pengajian pengajian Petender masa kini di **BORANG E**.
 - c. Petender dikehendaki menyenaraikan kerja semasa di **Borang G**. Petender **WAJIB** mengisi **Borang GA** dan **Borang GA1** dengan lengkap dan dikemukakan bersama-sama dokumen-dokumen sokongan yang ditetapkan. Kegagalan petender untuk mengisytiharkan kerja semasa akan menyebabkan tendernya ditolak. Bagi petender yang tidak mempunyai kerja semasa, sila catatkan **"Tiada Kerja Semasa"** di **Borang G**.
 - f. Dokumen-dokumen sokongan yang diperlukan adalah seperti berikut:
 - ✓ Salinan Surat Setuju Terima dan Salinan Perakuan Siap Kerja/ Pengesahan Siap Kerja/Perakuan Muktamad setiap kerja yang telah disiapkan dan disenaraikan di **Borang D**.
 - ✓ Salinan borang KWSP 'A' bagi bulan caruman terakhir bagi setiap kakitangan teknikal atau salinan perjanjian perkhidmatan professional yang diambil khidmat secara kontrak yang disenaraikan di **BORANG E**. Salinan sijil kelulusan/kelayakan setiap kakitangan teknikal kategori A dan B yang disenaraikan di **BORANG E**.
 - ✓ Salinan Surat Setuju Terima dan Perakuan Bayaran Interim terkini bagi setiap kerja semasa yang disenaraikan di **Borang G** Laporan Asal Projek mengenai prestasi semasa petender, bagi setiap kerja semasa yang disenaraikan di Borang G, atas format seperti **Borang GA**. Laporan tersebut hendaklah ditandatangani oleh Pegawai Penguasa/Wakil Pegawai Penguasa/Pegawai Profesional yang menyelia projek tersebut.
- 36.6. Semua maklumat dan dokumen yang tersebut di atas hendaklah dikemukakan bersama-sama dokumen tender sebelum tarikh dan waktu tutup tender. Bagi memastikan Kerajaan bersikap adil dan saksama kepada petender-petender lain yang berjaya mematuhi arahan tersebut, **sebarang maklumat atau dokumen yang dikemukakan selepas daripada tarikh dan waktu tutup tender, TIDAK AKAN DITERIMA.**
- 36.7. **Sekiranya Petender mengemukakan maklumat palsu, tidak memberikan maklumat yang dikehendaki dengan lengkap, dan/atau menyembunyikan atau sengaja tidak mengemukakan mana-mana maklumat yang memberi kesan negatif terhadap keupayaannya, tendernya akan ditolak dan tindakan sewajarnya akan diambil oleh Kerajaan ke atas Petender.**
- 36.8. Merujuk Pekeliling Perbendaharaan Malaysia (PK 2), Petender hendaklah menurunkan tandatangan pada Borang Tender dan penandatanganan adalah merupakan individu yang diberi kuasa oleh syarikat bagi urusan perolehan kerajaan menurut Sijil Perolehan Kerja Kerajaan Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB).

SURAT AKUAN PEMBIDA

SURAT AKUAN PEMBIDA

Tajuk: **CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG**

Nombor Rujukan Tender: **MPKj T3/2025**

Saya, No. Kad Pengenalan yang mewakili nombor Pendaftaran dengan ini mengisytiharkan bahawa saya atau mana-mana orang yang mewakili syarikat ini:

- i. tidak akan menawarkan, menjanjikan atau memberikan apa-apa suapan kepada mana-mana orang dalam mana-mana **MAJLIS PERBANDARAN KAJANG** atau mana-mana orang lain, sebagai suapan untuk dipilih dalam mana-mana perolehan; dan
- ii. tidak akan melakukan atau terlibat dengan tipuan bida dalam mana-mana perolehan.

Bersama ini dilampirkan Surat Perwakilan Kuasa bagi saya mewakili syarikat seperti tercatat di atas untuk membuat pengisytiharan ini.

2. Sekiranya saya, atau mana-mana individu yang mewakili syarikat ini didapati terlibat dalam pakatan tipuan bida dengan syarikat lain berkenaan perolehan di atas atau menawarkan, menjanjikan atau memberikan apa-apa suapan kepada mana-mana orang dalam **MAJLIS PERBANDARAN KAJANG** atau mana-mana orang lain sebagai dorongan untuk dipilih dalam tender/sebut harga* seperti di atas, maka saya sebagai wakil syarikat bersetuju tindakan-tindakan berikut boleh diambil:

- 2.1. Hilang kelayakan untuk dinilai dan dilantik bagi tender/sebut harga* di atas; dan
- 2.2. Lain-lain tindakan undang-undang/tatatertib mengikut undang-undang/peraturan perolehan Kerajaan yang berkuat-kuasa.

3. Saya sesungguhnya faham bahawa:

- 3.1. saya atau mana-mana orang yang berkaitan dengan syarikat boleh didakwa bagi kesalahan* di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan Kanun Keseksaan [Akta 574] serta boleh dihukum di bawah undang-undang masing-masing atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (i) dalam surat akuan ini; atau
- 3.2. tindakan boleh dikenakan ke atas syarikat di bawah Akta Persaingan 2010 [Akta 712] atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (ii) dalam surat akuan ini. Sekiranya syarikat didapati melanggar peruntukan seksyen 4(2)(d) Akta 712, syarikat boleh didenda tidak melebihi sepuluh peratus (10%) daripada pusing ganti (*turn over*) seluruh dunia sepanjang tempoh suatu pelanggaran itu berlaku.

4. Sekiranya terdapat mana-mana orang cuba memperolehi atau meminta apa-apa suapan daripada saya atau mana-mana orang yang berkaitan dengan syarikat ini sebagai dorongan untuk dipilih dalam tender/sebut harga* seperti di atas, maka saya berjanji akan dengan segera melaporkan perbuatan tersebut kepada pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) atau balai polis yang berhampiran. Saya sedar bahawa kegagalan saya berbuat demikian adalah merupakan suatu kesalahan di bawah seksyen 25 (1) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan boleh dihukum di bawah seksyen 25 (2) akta yang sama, apabila disabitkan boleh didenda tidak melebihi RM100,000 atau penjara selama tempoh tidak melebihi sepuluh tahun atau kedua-duanya.
5. Saya sesungguhnya faham bahawa syarikat melakukan kesalahan jika seseorang yang bersekutu dengan syarikat** memberikan, menjanjikan atau menawarkan suapan untuk memperolehi atau mengekalkan perniagaan atau faedah dalam menjalankan perniagaan di bawah Seksyen 17A, Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], apabila disabitkan kesalahan boleh didenda tidak kurang daripada sepuluh kali ganda jumlah atau nilai suapan, atau RM1 juta, atau dipenjarakan selama tempoh tidak melebihi dua puluh tahun atau kedua-duanya.

Yang benar,

Tandatangan : _____
Nama : _____
No.KP : _____
Tarikh : _____
Cap Syarikat : _____

Catatan:

- (i) *termasuk kesalahan ditetapkan dalam Jadual (Perenggan 3 (a), takrif "kesalahan ditetapkan") Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] yang boleh dihukum di bawah Kanun Keseksan [Akta 574].
- (ii) **seseorang yang bersekutu dengan syarikat merujuk kepada seksyen 17A (6) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], iaitu seseorang itu bersekutu dengan organisasi komersial jika dia seorang pengarah, pekongsi atau pekerja organisasi komersial itu atau dia ialah orang yang melaksanakan perkhidmatan untuk atau bagi pihak organisasi komersial itu.
- (iii) Surat Akuan ini hendaklah dikemukakan bersama surat perwakilan kuasa.
- (iv) Takrifan perusahaan di bawah Akta 712 merangkumi syarikat yang terlibat dengan perolehan Kerajaan.

Pihak Syarikat : Penama pada sijil pendaftaran untuk menandatangani Surat ini.

Pihak Kerajaan : Pegawai yang diberi kuasa oleh Menteri di bawah seksyen 2 Akta Kontrak Kerajaan 1949 untuk menandatangani kontrak.

KLAUSA PENCEGAHAN RASUAH DALAM DOKUMEN PEROLEHAN KERAJAAN

Versi Bahasa Kebangsaan

“PENAMATAN DISEBABKAN OLEH RASUAH, AKTIVITI TIDAK SAH ATAU AKTIVITI YANG MENYALAHU UNDANG-UNDANG

- a) Tanpa prasangka kepada apa-apa hak lain Kerajaan, sekiranya [Syarikat/Firma], kakitangan, pengkhidmat atau pekerjanya disabitkan oleh Mahkamah terlibat dengan rasuah, aktiviti tidak sah atau apa-apa aktiviti yang menyalahi undang-undang yang berkaitan dengan Perjanjian ini atau apa-apa perjanjian-perjanjian lain yang dimasuki oleh [Syarikat/Firma] dengan Kerajaan, Kerajaan hendaklah berhak untuk menamatkan Perjanjian ini pada bila-bila masa dengan mengemukakan notis bertulis dengan serta merta kepada [Syarikat/Firma] untuk menyatakan sedemikian kepada Syarikat.
- b) Kerajaan berhak menuntut daripada Syarikat apa-apa bentuk pampasan, kos, ganti rugi, kerosakan dan perbelanjaan (termasuk apa-apa kos perbelanjaan sampingan) yang ditanggung oleh Kerajaan akibat daripada penamatan itu.
- c) Pihak-Pihak bersetuju bahawa [Syarikat/Firma] tidak berhak kepada apa-apa bentuk kerugian termasuk kerugian perolehan pendapatan, pampasan, ganti rugi, kos, perbelanjaan dan sebagainya akibat daripada penamatan itu.”.

Versi Bahasa Inggeris

“TERMINATION ON CORRUPTION, UNLAWFUL OR ILLEGAL ACTIVITIES

- a) *Without prejudice to any other rights of the Government, if the [Company/Firm], its personnel, servants or employees is convicted by a court of law for corruption or unlawful or illegal activities in relation to this [Agreement/Contract] or any other agreement that the [Company/Firm] may have with the Government, the Government shall be entitled to terminate this [Agreement/Contract] at any time, by giving immediate written notice to that effect to the [Company/Firm].*
- b) *Upon such termination, the Government shall be entitled to all losses, costs, damages and expenses (including any incidental costs and expenses) incurred by the Government arising from such termination.*
- c) *For the avoidance of doubt, the Parties hereby agree that the [Company/Firm] shall not be entitled to any form of losses including loss of profit, damages, claims or whatsoever upon termination of this [Agreement/Contract].”.*

** klausa penamatan di atas adalah tertakluk kepada semakan dan pengesahan lanjut oleh Penasihat Undang-Undang Jabatan/Kementerian.

SURAT AKUAN PEMBIDA BERJAYA

SURAT AKUAN PEMBIDA

Tajuk: **CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG**

Nombor Rujukan Tender: **MPKj T3/2025**

Saya, No. Kad Pengenalan yang mewakili nombor Pendaftaran dengan ini mengisytiharkan bahawa saya atau mana-mana orang yang mewakili syarikat ini:

- i. tidak akan menawarkan, menjanjikan atau memberikan apa-apa suapan kepada mana-mana orang dalam mana-mana **MAJLIS PERBANDARAN KAJANG** atau mana-mana orang lain, sebagai suapan untuk dipilih dalam mana-mana perolehan; dan
- ii. tidak akan melakukan atau terlibat dengan tipuan bida dalam mana-mana perolehan.

Bersama ini dilampirkan Surat Perwakilan Kuasa bagi saya mewakili syarikat seperti tercatat di atas untuk membuat pengisytiharan ini.

2. Sekiranya saya, atau mana-mana individu yang mewakili syarikat ini didapati terlibat dalam pakatan tipuan bida dengan syarikat lain berkenaan perolehan di atas atau menawarkan, menjanjikan atau memberikan apa-apa suapan kepada mana-mana orang dalam **MAJLIS PERBANDARAN KAJANG** atau mana-mana orang lain sebagai dorongan untuk dipilih dalam tender/sebut harga* seperti di atas, maka saya sebagai wakil syarikat bersetuju tindakan-tindakan berikut boleh diambil:

- 2.1. Hilang kelayakan untuk dinilai dan dilantik bagi tender/sebut harga* di atas; dan
- 2.2. Lain-lain tindakan undang-undang/tatatertib mengikut undang-undang/peraturan perolehan Kerajaan yang berkuat-kuasa.

3. Saya sesungguhnya faham bahawa:

- 3.1. saya atau mana-mana orang yang berkaitan dengan syarikat boleh didakwa bagi kesalahan* di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan Kanun Keseksaan [Akta 574] serta boleh dihukum di bawah undang-undang masing-masing atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (i) dalam surat akuan ini; atau
- 3.2. tindakan boleh dikenakan ke atas syarikat di bawah Akta Persaingan 2010 [Akta 712] atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (ii) dalam surat akuan ini. Sekiranya syarikat didapati melanggar peruntukan seksyen 4(2)(d) Akta 712, syarikat boleh didenda tidak melebihi sepuluh peratus (10%) daripada pusing ganti (*turn over*) seluruh dunia sepanjang tempoh suatu pelanggaran itu berlaku.

4. Sekiranya terdapat mana-mana orang cuba memperolehi atau meminta apa-apa suapan daripada saya atau mana-mana orang yang berkaitan dengan syarikat ini sebagai dorongan untuk dipilih dalam tender/sebut harga* seperti di atas, maka saya berjanji akan dengan segera melaporkan perbuatan tersebut kepada pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) atau balai polis yang berhampiran. Saya sedar bahawa kegagalan saya berbuat demikian adalah merupakan suatu kesalahan di bawah seksyen 25 (1) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan boleh dihukum di bawah seksyen 25 (2) akta yang sama, apabila disabitkan boleh didenda tidak melebihi RM100,000 atau penjara selama tempoh tidak melebihi sepuluh tahun atau kedua-duanya.
5. Saya sesungguhnya faham bahawa syarikat melakukan kesalahan jika seseorang yang bersekutu dengan syarikat** memberikan, menjanjikan atau menawarkan suapan untuk memperolehi atau mengekalkan perniagaan atau faedah dalam menjalankan perniagaan di bawah Seksyen 17A, Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], apabila disabitkan kesalahan boleh didenda tidak kurang daripada sepuluh kali ganda jumlah atau nilai suapan, atau RM1 juta, atau dipenjarakan selama tempoh tidak melebihi dua puluh tahun atau kedua-duanya.

Yang benar,

Tandatangan : _____
Nama : _____
No.KP : _____
Tarikh : _____
Cap Syarikat : _____

Catatan:

- (v) *termasuk kesalahan ditetapkan dalam Jadual (Perenggan 3 (a), takrif "kesalahan ditetapkan") Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] yang boleh dihukum di bawah Kanun Keseksan [Akta 574].
- (vi) **seseorang yang bersekutu dengan syarikat merujuk kepada seksyen 17A (6) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], iaitu seseorang itu bersekutu dengan organisasi komersial jika dia seorang pengarah, pekongsi atau pekerja organisasi komersial itu atau dia ialah orang yang melaksanakan perkhidmatan untuk atau bagi pihak organisasi komersial itu.
- (vii) Surat Akuan ini hendaklah dikemukakan bersama surat perwakilan kuasa.
- (viii) Takrifan perusahaan di bawah Akta 712 merangkumi syarikat yang terlibat dengan perolehan Kerajaan.

Pihak Syarikat : Penama pada sijil pendaftaran untuk menandatangani Surat ini.

Pihak Kerajaan : Pegawai yang diberi kuasa oleh Menteri di bawah seksyen 2 Akta Kontrak Kerajaan 1949 untuk menandatangani kontrak.

**BORANG PENGISYTIHARAN
PEMUNYA BENEFISIAL**

LAMPIRAN B**BORANG PENGISYTIHARAN PEMUNYA BENEFISIAL**

Saya nombor kad pengenalan yang mewakili syarikat nombor pendaftaran (CIDB) dengan sesungguhnya dan sebenarnya mengaku bahawa pemunya benefisial syarikat seperti mana diisytiharkan kepada Suruhanjaya Syarikat Malaysia (SSM) dan senarai pemunya benefisial tambahan bagi kontrak ini (jika ada) adalah seperti berikut :

a) Butiran Pemunya Benefisial (Individu) :

Nama Individu	No. Kad Pengenalan / No. Pasport	Kewarganegaraan

b) Butiran Pemunya Benefisial (Syarikat) :

Nama Syarikat	No. Pendaftaran (CIDB) atau No. Pendaftaran Bagi Syarikat Asing	Lokasi Syarikat (Nama Negara)

[Berdasarkan Akta Syarikat (pindaan) 2024 [Akta A1701] dan garis panduan yang disediakan oleh Suruhanjaya Syarikat Malaysia (SSM)]

Yang Benar,

.....
(Nama dan No. KP)

Cap Syarikat :

Catatan :

Nota : *Potong mana yang tidak berkaitan

**SURAT AKUAN SYARIKAT DALAM
MENANGANI JENAYAH
PEMERDAGANGAN ORANG DAN
BURUH PAKSA**

LAMPIRAN C

**SURAT AKUAN SYARIKAT DALAM MENANGANI JENAYAH
PEMERDAGANGAN ORANG DAN BURUH PAKSA**

**CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET
DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM
KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS
PERBANDARAN KAJANG**

NO. TENDER : MPKj T3/2025

1. Saya **(Nama Pegawai Yang Diberi Kuasa)**
No. Kad Pengenalan yang mewakili (Nama Syarikat)
Nombor Pendaftaran **(CIDB)** dengan ini mengisytiharkan bahawa saya atau mana-
mana orang yang mewakili syarikat ini akan :

- i. Mendidik pekerja dan ahli organisasi mengenai cara mengenal pasti dan melaporkan tanda-tanda pemerdagangan orang dan buruh paksa;
- ii. Meningkatkan kesedaran tentang hak pekerja, perlindungan dan akses kepada remedi dan ;
- iii. Memastikan pematuhan kepada undang-undang mengenai jenayah pemerdagangan orang dan buruh paksa selaras dengan Akta Antipemerdagangan Orang dan Antipenyeludupan Migran 2007 [Akta 670] dan Akta Kerja 1955 [Akta 265] serta mana-mana peruntukan undang-undang yang berkuat kuasa di Malaysia.

2. Sekiranya saya, atau mana-mana individu yang mewakili syarikat ini didapati terlibat dalam jenayah pemerdagangan orang dan buruh paksa, maka saya sebagai wakil Syarikat bersetuju tindakan boleh dikenakan ke atas syarikat di bawah Akta Antipemerdagangan Orang dan Antipenyeludupan Migran 2007 [Akta 670] dan Akta Kerja 1955 [Akta 265] serta mana-mana peruntukan undang-undang yang berkuat kuasa di Malaysia.

Yang Benar,

Tandatangan :
Nama :
No. KP :
Tarikh :
Cap Syarikat :

BORANG TENDER

**BORANG INI HENDAKLAH DIGUNAKAN JIKA KUANTITI
MENJADI SEBAHAGIAN DARIPADA KONTRAK**

*(THIS FORM IS TO BE USED WHERE QUANTITIES FORM
PART OF THE CONTRACT)*

Kontrak No..... tahun 20
Contract No Of

Bagi Kerja-Kerja tersebut di bawah ini yang dibuat pada haribulan
Tahun..... oleh pihak-pihak yang bertandatangan di bawah ini, adalah berhubung dengan Borang
Tender ini yang menjadi sebahagian daripada Kontrak tersebut dan yang hendaklah dibaca dan
diertikan sedemikian.

*For the under-mentioned Works entered into on the day of by the undersigned
parties, refers to this Form of Tender which is and shall be read and construed as part of the said
Contract.*

.....
Tandatangan Petender
Signature of Tenderer

.....
Tandatangan Pegawai
Signature of Officer

(Nama Penuh:)
Name in full

(Nama Penuh:)
Name in full

No. Kad Pengenalan:
Identity Card No.

No. Kad Pengenalan:
Identity Card No.

Atas sifat :
In the capacity of
yang diberikuasa dengan sempumanya untuk
menandatangani Tender ini untuk dan bagi
Pihak:
*duly authorised to sign this Tender for and on
behalf of:*

Jawatan:
Designation
Untuk dan bagi pihak MAJLIS
PERBANDARAN KAJANG
*For and on behalf of MAJLIS PERBANDARAN
KAJANG*

.....
Meterai atau cap Petender
Tenderer's seal or chop

Saksi:
Witness

Saksi:
Witness

Nama Penuh:
Name in full

Nama Penuh:
Name in full

No. Kad Pengenalan:
Identity Card No.

No. Kad Pengenalan:
Identity Card No.

Pekerjaan:
Occupation

Jawatan:
Designation

Alamat:
Address

MAJLIS PERBANDARAN KAJANG (MPKj)

BORANG TENDER
(FORM OF TENDER)

TENDER BAGI
TENDER FOR

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

mengikut Pelan-Pelan No:
in accordance with Drawings No.

.....
dan lain-lain pelan terperinci yang diberi untuk menerangkannya.
and any other detail drawings supplied in amplification thereof.

Salinan-salinan Dokumen Meja Tender yang merangkumi Perjanjian Kontrak, Pelan-Pelan tersebut di atas, Senarai Kuantiti dan/atau Spesifikasi dan Dokumen Tender yang lain boleh dilihat di tempat yang dinyatakan dalam Notis Tender dalam masa waktu pejabat pada mana- mana hari bekerja hingga tarikh akhir yang ditetapkan bagi penyerahan tender.

Copies of the Tender Table Documents comprising the Contract Agreement, the above-mentioned Drawings, Specification and other Tender Documents may be seen at the place specified in the Tender Notice during office hours on any working day until the final date fixed for the submission of tenders.

Kepada:
To

Bahagian Pengurusan Kontrak dan Ukur Bahan,

.....
Majlis Perbandaran Kajang,

.....
Menara MPKj, Jalan Cempaka Putih Off Jalan Semenyih,

.....
43000, Kajang, Selangor Darul Ehsan.

.....
(Pihak menerima tender)

TUAN,

Di bawah dan tertakluk kepada Syarat-Syarat Membuat Tender yang dilampirkan bersama ini, yang bertandatangan di bawah ini adalah dengan ini membuat tender dan menawarkan untuk melaksana dan menjalankan Kerja dan peruntukan-peruntukan dan membekalkan semua buruh, bahan dan loji dan segala benda dari tiap-tiap jenis yang masing-masing disebut, ditunjuk, diperihal dan dimaksudkan dalam, atau yang hendaklah ditakrifkan daripada Dokumen Tender, yang hendaklah dilaksana dan dibekalkan oleh pihak Kontraktor, bagi Kerja yang diperihalkan di atas, dengan menepati Dokumen Tender tersebut bagi jumlah wang pukal yang disebutkan di bawah ini.

Under and subject to the Conditions of Tendering annexed hereto, the undersigned does hereby tender and offer to execute and perform the Works and provisions and supply all labour, materials and plants and everything of every kind respectively named, shown, described and alluded to in, or to be inferred from the Tender Documents, to be executed and supplied on the part of the Contractor, for the Works above described, in conformity with the said Tender Documents for the lump sum named herein below.

2. Yang bertandatangan di bawah ini bersetuju menjadi terikat oleh dan tunduk kepada Syarat- Syarat Kontrak dan Senarai Kuantiti yang terletak harganya dan/atau Spesifikasi tersebut dan bersetuju bahawa sebelum Surat Setuju Terima Tender dikeluarkan, harga atau kadar harga dalam Senarai Kuantiti hendaklah diteliti dan diselaraskan oleh Pegawai Penguasa dengan memastikan kemunasabahannya tanpa mengubah amaun yang dinyatakan di dalam Borang Tender.

The undersigned agrees to be bound by and submit to the Conditions of Contract and priced Bills of Quantities and Specification and agrees that before the issuance of the Letter of Acceptance, the prices or rates in the Bills of Quantities shall be scrutinized and adjusted by the Superintending Officer as to its reasonableness without altering the amount as stated in the Form of Tender.

Senarai Kuantiti yang terletak harganya tersebut, selepas diperbetulkan atau diselaraskan sebagaimana yang diperuntukkan dalam Syarat-Syarat Kontrak, hendaklah menjadi asas bagi menilaikan bayaran interim dan apa-apa perubahan yang mungkin diarahkan oleh Pegawai Penguasa dari semasa ke semasa.

The said priced Bills of Quantities after rectification or adjustment as provided in the Conditions of Contract, shall form the basis of valuation for interim payment and any variation which may from time to time be ordered by the Superintending Officer.

3. Dan selanjutnya, yang bertandatangan di bawah ini bersetuju menyiapkan Kerja itu dalam masa 12 hari/minggu/bulan/tahun* dari tarikh pemilikan tapakbina atau dalam apa-apa tempoh lanjutan yang diperuntukkan dalam Syarat-Syarat Kontrak.

And further, the undersigned agrees to complete the Works within12..... days/weeks/months/years from the date of possession of site or within such extended time as by the Conditions of Contract provided.*

4. Jumlah amaun Tender ini ialah jumlah wang pukal sebanyak Ringgit Malaysia
The total amount of the Tender is the lump sum of Ringgit Malaysia

.....
 iaitu, RM
 i.e. RM

5. Yang bertandatangan di bawah ini berharap dibenarkan membuat tender, dalam sedikit masa lagi bagi kerja berikut yang mana dijalankan secara langsung oleh yang bertandatangan di bawah ini dalam perjalanan biasa perniagaannya dan yang baginya Wang Kos Prima atau Wang Peruntukan Sementara telah dimasukkan dalam amaun Tender ini:

The undersigned desires to be permitted to tender in due course, for the following work which the undersigned in the ordinary course of business directly carries out and for which Prime Cost or Provisional Sums have been included in the amount of this Tender:

.....

* Petender dikehendaki memotong yang tidak berkenaan.
The tenderer to delete whichever is not applicable

6. Bahawasanya adalah diketahui bahawa MPKj sentiasa berhak menyetujui atau menolak Tender ini, sama ada ianya lebih rendah atau lebih tinggi daripada tender-tender yang lain, atau sama amaunnya. Yang bertandatangan di bawah ini bersetuju yang Tender ini akan berterusan sah dan tidak akan ditarik balik dalam tempoh sembilan puluh (90) hari dari tarikh akhir yang ditetapkan bagi penyerahan tender dan bersetuju bahawa tiada apa-apa had, syarat atau perjanjian lain akan dikenakan oleh kami selepas tarikh tersebut.

Whereas it is understood that the MPKj reserves the right to accept or to refuse this Tender, whether it be lower or higher than any other tender, or of the same amount. The undersigned agrees that this Tender shall remain valid and shall not be withdrawn within ninety (90) days from the final date fixed for the submission of tenders and agrees that no other term, condition or stipulation shall be imposed by us after the said date.

7. Yang bertandatangan di bawah ini berniat, jika Tender ini disetujui terima, memilih salah satu daripada bentuk Bon Pelaksanaan seperti berikut:

The undersigned intends, in the event of acceptance of this Tender, to choose one of the following form of Performance Bond:

- * (i) Jaminan Bank / Bank Islam / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (Bank SME); atau
Bank / Islamic Bank / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (SME Bank) Guarantee or
- * (ii) Jaminan Syarikat Kewangan; atau
Finance Company Guarantee or
- * (iii) Jaminan Insurans/Takaful atau
Insurance/Takaful Guarantee or
- * (iv) Wang Jaminan Pelaksanaan yang dikenakan potongan sebanyak sepuluh peratus (10%) daripada setiap bayaran interim sehingga mencapai jumlah lima peratus (5%) daripada Jumlah Harga Kontrak.
Performance Guarantee Sum whereby ten percent (10%) of each interim payment shall be deducted until the total amount deducted aggregate to a sum equivalent to five percent (5%) of the Contract Sum.

8. Yang bertandatangan di bawah ini bersetuju, jika Tender ini disetujui terima, mendeposit, dengan seberapa segera yang praktik selepas penerimaan Surat Setuju Terima Tender tetapi sebelum bermulanya Kerja, perkara-perkara berikut:

The undersigned agrees, in the event of acceptance of this Tender, to deposit as soon as is practicable after the receipt of the Letter of Acceptance of Tender but before the commencement of the Works, the following:

- (a) Bon Pelaksanaan (jika petender memilih kaedah Jaminan Bank / Bank Islam / BPMB / Bank SME / Insurans / Takaful atau Syarikat Kewangan sahaja) dan jikalau gagal dikemukakan pada tarikh milik tapak, Kerajaan berhak untuk melaksanakan kaedah Wang Jaminan Pelaksanaan; *Performance Bond (if the tenderer opts for Bank / Islamic Bank / BPMB / SME Bank / Insurance / Takaful or Finance Company Guarantee) and failure to submit the said bond by the date of possession of site shall entitle the Government to implement the Performance Guarantee Sum option;*
- (b) Polisi Insurans Tanggungan Awam (iaitu insurans terhadap bencana kepada orang-orang dan kerosakan kepada harta) atau Nota Liputan berserta dengan resit bagi premium yang telah dibayar; *Insurance Policy for Public Liability (ie. insurance against injury to persons and damage to property) or the Cover Note together with receipt of premium paid in respect thereof;*

- (c) Polisi Insurans Kerja atau Nota Liputan berserta dengan resit bagi premium yang telah dibayar;
Insurance Policy for Works or the Cover Note together with receipt of premium paid in respect thereof;
- (d) Nombor pendaftaran di bawah Skim Keselamatan Sosial Pekerja (PERKESO);
Registration number under Employee's Social Security (SOCSO) Scheme;

Yang bertandatangan di bawah ini selanjutnya bersetuju mendeposit Polisi-polisi Insurans yang berkenaan dalam tempoh tidak lewat daripada tiga puluh (30) hari selepas Nota Liputan diserahkan.
The undersigned further agrees to deposit the relevant Insurance Policies within a period of not later than thirty (30) days after the Cover Notes has been submitted.

9. Yang bertandatangan di bawah ini bersetuju jika kerja-kerja gagal dimulakan dalam tempoh dua (2) minggu dari tarikh milik tapak, pengambilan kerja di bawah kontrak akan ditamatkan sejajar dengan Fasal 51.1(a)(i) Syarat-Syarat Kontrak.

The undersigned agrees that if the undersigned fails to commence works within two (2) weeks from the date of possession, his employment under the Contract shall be terminated in accordance with Clause 51.1(a)(i) of the Conditions of Contract.

10. Yang bertandatangan di bawah ini dengan ini juga bersetuju bahawa Borang Tender ini berserta Surat Setuju Terima Tender (jika ada) hendaklah menjadi kontrak yang mengikat antara kita.

The undersigned hereby also agrees that this Form of Tender together with the Letter of Acceptance of Tender (if any) shall constitute a binding contract between us.

11. Yang bertandatangan di bawah ini mengesahkan, selepas menyemak sendiri, bahawa dokumen-dokumen dan pelan-pelan yang digunakan oleh yang bertandatangan di bawah ini untuk menyusun Tender ini adalah salinan-salinan yang sebenarnya bagi dokumen-dokumen dan pelan-pelan yang dimasukkan dalam Dokumen Meja Tender.

The undersigned confirms, after a personal scrutiny, that the documents and drawings used by the undersigned in compiling this Tender are true copies of the documents and drawings included in the Tender Table Documents.

12. Yang bertandatangan di bawah ini bersetuju bahawa:

The undersigned agrees that:

- (a) jika Tender ini ditarik balik sebelum tamatnya Tempoh Sah Tender atau apa-apa tempoh lanjutan, atau
if this Tender is withdrawn before the expiry of the Tender Validity Period or any extended period thereof, or
- (b) jika yang bertandatangan di bawah ini mengenakan apa-apa had, syarat atau janji tambahan kepada Tender ini selepas tarikh akhir yang ditetapkan bagi penyerahan tender atau,
if the undersigned imposes any additional term, condition or stipulation to the Tender after the final date fixed for the submission of tenders or,
- (c) jika sekiranya Tender telah disetujui terima, yang bertandatangan di bawah ini enggan dan tidak melaksanakan Perjanjian Kontrak yang formal atau mendeposit Bon Pelaksanaan (jika petender memilih kaedah Jaminan Bank / Bank Islam / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (Bank SME) / Insurans/Takaful atau Syarikat Kewangan sahaja) sebagaimana dikehendaki oleh Syarat-Syarat Kontrak atau tidak meneruskan Kerja, maka, dalam mana-mana hal itu, tanpa menyentuh apa-apa hak lain yang ada padanya, Kerajaan sentiasa berhak mengambil tindakan tatatertib terhadap yang bertandatangan di bawah ini atau membatalkan pendaftaran yang bertandatangan di bawah ini sebagai kontraktor Kerajaan, sebagaimana difikirkan perlu oleh Kerajaan.

in the event that the Tender having been accepted, the undersigned refuses and fails to execute the formal Contract Agreement or to deposit the Performance Bond (if the tenderer opts for Bank / Islamic Bank / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (SME Bank) /Insurance/Takaful or Finance Company Guarantee) as required by the Conditions of Contract or fails to proceed with the Works, then, in any of such event, without prejudice to any other rights it may possess, the Government reserves the right to take disciplinary action against the undersigned or to cancel the registration of the undersigned as a Government contractor, as the Government deems fit.

Bertarikh pada..... haribulan..... 20.....
Dated this day of 20

.....
 Tandatangan Petender
Signature of Tenderer

Nama Penuh:
Name in full

Atas sifat: *In the capacity of*

yang diberikuasa dengan sempumanya untuk
 menandatangani Tender ini untuk dan bagi pihak:
duly authorised to sign this Tender for and on behalf of:

.....
 Meterai atau cap Petender
Tenderer's seal or chop

Saksi:
Witness

Nama Penuh: *Name in full*

Pekerjaan:
Occupation

Alamat:
Address

.....

**SYARAT-SYARAT MEMBUAT TENDER
(CONDITIONS OF TENDERING)**

1. Keseluruhan Kerja yang dinyatakan dalam Dokumen Tender yang ditunjukkan di atas Meja Tender (kemudian dari ini disebut "Dokumen Meja Tender") akan diberi secara Kontrak.

The whole of the Works set forth in the Tender Documents exhibited on the Tender Table (hereinafter referred to as the "Tender Table Documents") will be let on Contract.

2. (a) Tiap-tiap petender mestilah menyerahkan, dalam suatu sampul surat bertutup dan bermeterai yang dialamatkan sebagaimana ditetapkan dalam Notis Tender, suatu tender yang sah dalam Borang Tender yang diperuntukkan, bersama dengan salinan Senarai Kuantiti yang diisi dan ditandatangani dengan sempurna. Borang Tender yang tak lengkap atau tak bertandatangan akan ditolak.

Each tenderer must submit, enclose and seal in an envelope addressed as stipulated in the Tender Notice, a genuine tender on the Form of Tender provided, together with the copy of the Bills of Quantities duly filled in and signed. Form of Tender which is incomplete or unsigned shall be disqualified.

(b) Tiap-tiap petender mestilah mencatitkan, dalam ruang yang diperuntukkan dalam Borang Tender, masa yang akan dikehendaknya bagi menyiapkan Kerja itu.

Each tenderer must enter, in the space provided on the Form of Tender, the time he will require to complete the Works.

(c) Petender hendaklah meletakkan harga dalam Senarai Kuantiti yang hendaklah diisi dengan dakwat dan ditandatangani dengan sempurna oleh petender. Sebelum Surat Setuju Terima dikeluarkan, harga atau kadar harga dalam Senarai Kuantiti hendaklah diteliti dan diselaraskan oleh Pegawai Penguasa dengan memastikan kemunasabahannya tanpa mengubah amaun yang dinyatakan di dalam Borang Tender.

The tenderer shall price the Bills of Quantities which shall be duly filled in ink and signed by the tenderer. Before the issuance of the Letter of Acceptance, prices or rates in the Bills of Quantities shall be scrutinized and adjusted by the Superintending Officer as to its reasonableness without altering the amount as stated in the Form of Tender.

3. Jika mana-mana petender:
Should any tenderer:

(a) menarik balik tendernya sebelum tamat Tempoh Sah Tender atau apa-apa tempoh lanjutan, atau
withdraw his tender before the expiry of the Tender Validity Period or any extended period thereof, or

(b) mengenakan had, syarat atau janji tambahan selepas tarikh akhir yang ditetapkan bagi penyerahantender (dan dalam hal yang sedemikian ianya hendaklah disifatkan sebagai penarikan balik tender ini), atau
impose additional terms, conditions or stipulations after the final date fixed for the submission of tenders (in which case it shall be deemed to be a withdrawal of this tender), or

- (c) jika sekiranya tender telah disetujui terima, enggan dan tidak melaksanakan Perjanjian Kontrak yang formal atau mendeposit Bon Pelaksanaan (jika petender memilih kaedah Jaminan Bank / Bank Islam / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (Bank SME) / Insurans/ Takaful atau Syarikat Kewangan sahaja) atau tidak meneruskan Kerja;
whose tender has been accepted, refuse and fail to execute the formal Contract Agreement or to deposit the Performance Bond (if the tenderer opts for Bank / Islamic Bank / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (SME Bank) / Insurance/Takaful or Finance Company Guarantee) or fails to proceed with the Works;

maka, dalam mana-mana hal itu, Kerajaan hendaklah, tanpa menyentuh apa-apa hak lain yang ada padanya, sentiasa berhak mengambil tindakan tatatertib terhadap yang bertandatangan di bawah ini atau membatalkan pendaftaran petender sebagai kontraktor Kerajaan, sebagaimana difikirkan perlu oleh Kerajaan.

then, in any of such events, the Government, without prejudice to any other rights it may possess, reserves the right to take disciplinary action against the undersigned or to cancel the registration of the tenderer as a Government contractor, as the Government deems fit.

4. Tiada apa-apa perubahan atau tambahan yang tidak dibenarkan boleh dibuat kepada Borang Tender atau mana-mana Dokumen Tender yang lain.

No unauthorised alteration or addition shall be made to the Form of Tender or any other Tender Documents.

5. (a) Tender-tender dan dokumen-dokumen berhubung dengannya yang dinyatakan dalam Klausula 2 di atas, mestilah diserahkan di tempat dan pada atau sebelum masa yang ditetapkan dalam Notis Tender bagi penyerahan tender.

Tenders and documents in connection therewith as specified in Clause 2 above, must be delivered to the place and at or before the time stipulated in the Tender Notice for the submission of Tenders.

- (b) Jika sesuatu tender tidak diserahkan dengan tangan, petender mestilah menguruskan bagi tendernya dan dokumen-dokumennya yang lain dihantar dengan pos supaya sempat sampai di tempat yang ditetapkan tidak lewat dari masa yang ditetapkan.

In the case of a tender not being delivered by hand, the tenderer must arrange for his tender and other documents to be posted in time to reach the stipulated place not later than the stipulated time.

- (c) Mana-mana tender yang diserahkan selepas masa yang ditetapkan, berbangkit dari apa jua sebab, tidak akan dipertimbangkan.

Any tender delivered after the stipulated time, from whatever cause arising, will not be considered.

- (d) Tiada apa-apa jua perbelanjaan yang ditanggung oleh petender bagi menyediakan tendernya boleh dibayar kepadanya.

In no case will any expenses incurred by a tenderer in the preparation of his tender be allowed.

6. Jika sekiranya atas permintaannya, seseorang petender diberikan salinan-salinan sesuatu Dokumen Tender, maka adalah menjadi tanggungjawabnya seorang diri untuk meneliti salinan-salinan itu dan memuaskan hatinya bahawa salinan-salinan itu adalah sebenarnya salinan-salinan dokumen yang termasuk dalam Dokumen Meja Tender. Jika sekiranya terdapat apa-apa perbezaan atau percanggahan antara mana-mana salinan yang diberi kepada petender dengan salinan dalam Dokumen Meja Tender atau antara mana-mana dokumen yang termasuk di dalamnya, maka adalah menjadi tanggungjawabnya seorang diri untuk memohon secara bertulis kepada Pegawai Penguasa supaya dibetulkan perbezaan atau percanggahan itu tidak lewat dari tujuh (7) hari sebelum tarikh akhir yang ditetapkan dalam Notis Tender bagi penyerahan tender. Apa-apa jawapan yang hendak dibuat oleh Pegawai Penguasa atas permohonan itu hendaklah dibuat dengan cara Memorandum Tender yang hendaklah dihantar kepada semua petender. Memorandum Tender itu hendaklah menjadi sebahagian daripada Dokumen Tender dan Tender yang diterima akan disifatkan sebagai berdasarkan pada huraian, ubahsuaian atau perluasan kepada dokumen asal yang mengandunginya.

In the event of any tenderer being supplied at his request, with copies of any of the Tender Documents, it shall be the sole responsibility of the tenderer to scrutinize such copies and satisfy himself that they are exact copies of those included in the Tender Table Documents. In the event of any difference or discrepancy being found between any such copies supplied to the tenderer and those in the Tender Table Documents or between any documents included therein, it shall be the sole responsibility of the tenderer to apply in writing to the Superintending Officer, to have the difference or discrepancy rectified, not later than seven (7) days before the final date fixed in the Tender Notice for the submission of tenders. Any reply the Superintending Officer may make to such application shall be by way of a Tender Memorandum which will be sent to all tenderers. Such Tender Memorandum shall become part of the Tender Documents and Tenders received will be deemed to have been based on the explanations, modification or extension to the original document that they contain.

7. Petender hendaklah disifatkan telah memeriksa dan meneliti Tapakbina dan sekitarnya dan telah berpuas hati sebelum menyerahkan tendernya tentang jenis bumi dan lapisan tanah, bentuk dan jenis Tapakbina, takat dan jenis kerja, bahan dan barang yang perlu bagi menyiapkan Kerja, cara-cara perhubungan dengan dan akses ke Tapakbina, tempat tinggal yang mungkin dikehendaki dan pada amnya hendaklah mendapatkan sendiri segala maklumat yang perlu tentang risiko, luarjangka dan segala hal keadaan yang mempengaruhi dan menjejaskan tendernya.

The tenderer shall be deemed to have inspected and examined the Site and its surroundings and to have satisfied himself before submitting his tender as to the nature of the ground and sub- soil, the form and nature of the Site, the extent and nature of the work, materials and goods necessary for the completion of the Works, the means of communication with and access to the Site, the accommodation he may require and in general to have obtained for himself all necessary information as to risks, contingencies and all circumstances influencing and affecting his tender.

8. Tender-tender hendaklah terus sah selama tempoh sembilan puluh (90) hari dari tarikh akhir bagi penyerahan tender sebagaimana yang ditetapkan dalam Notis Tender (dalam Syarat- Syarat Membuat Tender ini disebut "Tempoh Sah Tender") dan tempoh ini boleh dengan persetujuan bersama dilanjutkan jika dan apabila perlu.

Tenders shall remain valid for a period of ninety (90) days from the final date for submission of tenders stipulated in the Tender Notice (herein referred to as the "Tender Validity Period") and such period may by mutual agreement be extended as and when necessary.

9. Kerajaan tidak boleh terikat menyetujui tender yang rendah sekali atau sesuatu tender dan juga tidak terikat untuk memberi apa-apa sebab atas penolakan sesuatu tender.

The Government shall not be bound to accept the lowest or any tender, nor to assign any reason for the rejection of any tender.

10. Petender yang berjaya (jika ada) hendaklah diberitahu tentang tendernya dengan surat (disebut "Surat Setuju Terima Tender") dalam Tempoh Sah Tender atau apa-apa tempoh lanjutan. Petender tersebut hendaklah dengan seberapa segera yang praktik tetapi sebelum bermulanya Kerja mendeposit dengan Pegawai Penguasa, perkara-perkara berikut:

The successful tenderer (if any) shall be notified of his tender by a letter (referred to as "Letter of Acceptance of Tender") within the Tender Validity Period or any extended period thereof. The said tenderer shall as soon as is practicable but before the commencement of the Works deposit with the Superintending Officer the following:

(a) Bon Pelaksanaan (jika petender memilih kaedah Jaminan Bank / Bank Islam / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (Bank SME) / Insurans/ Takaful atau Syarikat Kewangan sahaja) berjumlah sebanyak 5% daripada Jumlah Harga Kontrak dan jikalau gagal dikemukakan pada tarikh milik tapak, Kerajaan berhak untuk melaksanakan kaedah Wang Jaminan Pelaksanaan;

Performance Bond (if the tenderer opts for Bank / Islamic Bank / Bank Pembangunan Malaysia Berhad (BPMB) / Bank Perusahaan Kecil dan Sederhana Malaysia (SME Bank) / Insurance/Takaful or Finance Company Guarantee) amounting to 5% of Contract Sum and failure to submit the said bond by the date of possession of site, shall entitle the Government to implement the Performance Guarantee Sum option;

- (b) Polisi Insurans Tanggungan Awam (iaitu insurans terhadap bencana kepada orang-orang atau kerosakan kepada harta) atau Nota Liputan berserta dengan resit bagi premium yang telah dibayar; *Insurance Policy for Public Liability (i.e. insurance against injury to persons or damage to property) or Cover Note together with receipt of premium paid in respect thereof,*
- (c) Polisi Insurans Kerja atau Nota Liputan berserta dengan resit bagi premium yang telah dibayar; *Insurance Policy for Works or Cover Note together with receipt of premium paid in respect thereof;*
- (d) Nombor pendaftaran di bawah Skim Keselamatan Sosial Pekerja (PERKESO); *Registration numbers under the Employee's Social Security (SOCSO) Scheme.*

Petender tersebut hendaklah selanjutnya mendeposit Polisi-polisi Insurans yang berkenaan dalam tempoh tidak lewat daripada tiga puluh (30) hari selepas Nota Liputan diserahkan.

The said tenderer shall further deposit the relevant Insurance Policies within a period of not later than thirty (30) days after the Cover Notes has been submitted.

11. Semua jadual butir-butir yang dilampirkan kepada Dokumen Tender hendaklah diisi dan diserahkan oleh petender berserta dengan tendernya.

All schedules of particulars attached to the Tender Documents shall be completed and submitted by the tenderer together with his tender.

12. Tiap-tiap notis yang hendak diberi kepada petender bolehlah diposkan ke alamatnya yang dinyatakan dalam tender itu dan pengeposan itu hendaklah disifatkan sebagai penyampaian yang sempurna akan notis itu.

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

13. Perkataan "petender yang berjaya" hendaklah bererti bahawa petender yang mana tendernya telah diluluskan dan disetuju terima oleh Kerajaan.

The word "successful tenderer" shall mean that the tenderer whose tender has been approved and accepted by the Government.

14. Perkataan "petender" dalam Syarat-Syarat ini hendaklah disifatkan sebagai termasuk dua orang atau lebih.

The word "tenderer" in these conditions shall be deemed to include two or more persons.

15. Jika petender tidak mematuhi Syarat-Syarat tersebut di atas mengenai apa-apa jua hal maka tendernya boleh ditolak.

Non-compliance with the above conditions in any respect shall render the tender liable to rejection.

16. Syarat-Syarat Membuat Tender ini, setakat mana Syarat-Syarat itu mungkin menyentuh pelaksanaan Kontrak ini, hendaklah disifatkan menjadi sebahagian daripada Kontrak ini.

These Conditions of Tendering, in so far as they affect the execution of the Contract, shall be deemed to form part of the Contract.

SURAT SETUJU TERIMA TENDER

No Tender:

MAJLIS PERBANDARAN KAJANG (MPKJ)
SURAT SETUJU TERIMA TENDER

Rujukan Kami :

Tarikh :

.....
.....
.....

Tuan,

Tender Untuk: CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

No. Tender : MPKj T3/2025

Dengan ini dimaklumkan bahawa MPKj telah bersetuju menerima tawaran tender tuan dengan harga sebanyak Ringgit Malaysia: (RM) yang merupakan harga kontrak bagi tempoh kontrak selama (Hari/Minggu/Bulan/Tahun) tertakluk kepada dokumen tender menjadi sebahagian daripada perolehan ini dan Surat Setuju Terima ini berserta dengan **Lampiran A** kepada Surat Setuju Terima iaitu maklumat terperinci kontrak (selepas ini disebut sebagai "Surat ini").

2. Dengan pengakuan penerimaan Surat ini berserta lampiran berkaitan, suatu kontrak yang mengikat terbentuk di antara MPKj dengan syarikat tuan. Satu dokumen kontrak hendaklah ditandatangani dalam kadar segera dengan memasukkan semua terma sebagaimana dokumen tender serta semua terma dalam **Lampiran A**. Sehingga dokumen kontrak tersebut ditandatangani, Surat ini hendaklah terus mengikat kedua-dua pihak.
3. Harga kontrak adalah tidak termasuk cukai jualan selaras dengan pengecualian yang diberikan di bawah Perintah Cukai Jualan (Orang Yang Dikecualikan Daripada Pembayaran Cukai) 2018 yang dengannya Sijil Di Bawah Perintah Cukai Jualan (Orang Yang Dikecualikan Daripada Pembayaran Cukai) 2018 akan dikeluarkan sebelum sebarang pembayaran dibuat.
4. Pelarasan harga dan kadar harga dalam *Jadual Kadar Harga dan/atau Ringkasan Tender atau Senarai Kuantiti, mengikut yang mana berkenaan setelah diteliti dan diselaraskan oleh MPKj tentang kemunasabahannya, yang mana akan menjadi sebahagian daripada terma-terma kontrak. Walau bagaimanapun, Jumlah Harga Kontrak seperti di atas adalah kekal tidak berubah.
5. Tarikh milik tapak seperti yang disebutkan dalam Syarat-syarat Kontrak ialah pada Walau bagaimanapun, tuan adalah diingatkan bahawa tiada kerja boleh dibuat **melainkan** jika tuan telah mengemukakan kepada MPKj dokumen-dokumen berikut:

- (a) suatu bon pelaksanaan yang tidak boleh dibatalkan yang berjumlah Ringgit Malaysia :(RM.....) dan jikalau Bon Pelaksanaan gagal dikemukakan pada tarikh milik tapak, MPKj berhak untuk melaksanakan kaedah Wang Jaminan Pelaksanaan;

1 daripada 12

Tandatangan & Cop (Kerajaan):

Tandatangan & Cop (Syarikat):

No Tender:

- (b) suatu polisi Insurans Tanggungan Awam (iaitu insurans terhadap bencana kepada orang-orang dan kerosakan kepada harta) nilai insurans tidak kurang daripada Ringgit(RM.....);
- (c) suatu polisi Insurans Kerja yang berjumlah Ringgit Malaysia;(RM.....)
- (d) nombor Kod Majikan di bawah Skim PERKESO dan/atau Polisi Pampasan Pekerja;
- (e) nombor Pendaftaran Kumpulan Wang Simpanan Pekerja (KWSP),

mengikut ketetapan seperti di **Lampiran A**. Walau bagaimanapun, bagi memulakan kerja-kerja dan bukan maksud lain, tuan boleh menyerahkan Nota-nota Liputan bagi maksud polisi-polisi insurans tersebut dan resit-resit premium yang telah dibayar itu kepada Pegawai Penguasa. Tuan dikehendaki menyerahkan Polisi-polisi Insurans yang berkenaan (jika belum diserahkan) menurut perenggan 5 di atas, dalam tempoh tidak lewat 30 hari daripada tarikh penyerahan Nota-nota Liputan. Apa-apa kegagalan dalam mematuhi kehendak di perenggan ini dalam tempoh masa yang ditetapkan, boleh mengakibatkan Surat ini terbatal dan Kerajaan tidaklah dengan apa-apa cara jua bertanggungjawab terhadap tuan **melainkan jika** penepian bertulis diberikan oleh orang yang diberi kuasa, bagi kerja yang perlu dibuat dengan segera atau serta-merta apabila kelewatan itu akan memudarat dan menjejaskan perkhidmatan dan kepentingan awam.

6. Setelah arahan dikeluarkan oleh Kerajaan, tuan dikehendaki melaksanakan kerja dalam tempoh yang ditetapkan dan kualiti kerja tersebut hendaklah memuaskan hati serta memenuhi kehendak Kerajaan. Sekiranya tuan gagal melaksanakan kerja dalam tempoh yang ditetapkan, Kerajaan berhak membatalkan arahan yang dikeluarkan dan/atau mengenakan *Liquidated & Ascertained Damages* (LAD) seperti yang ditetapkan dalam **Lampiran A**.

7. ~~Syarikat tuan juga adalah digalakkan melaksanakan program Professional Training And Education For Growing Entrepreneurs Ready To Work (PROTEGE RTW) seperti yang ditetapkan oleh Kerajaan.~~

8. ~~Bagi tujuan program PROTEGE ini, syarikat tuan adalah dikehendaki untuk:~~

- ~~(a) mengemukakan Jadual Pelaksanaan Program PROTEGE berdasarkan tempoh kontrak kepada Sekretariat PROTEGE untuk kelulusan dalam tempoh dua (2) minggu selepas tarikh pengakuan penerimaan Surat ini oleh syarikat tuan;~~
- ~~(b) melaksanakan program ini mengikut Jadual Pelaksanaan Program PROTEGE yang diluluskan oleh Sekretariat PROTEGE;~~
- ~~(c) mengemaskini maklumat berkaitan pengalaman syarikat melaksanakan program PROTEGE dalam sistem ePerolehan di Kementerian Kewangan atau sistem di Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB), mengikut mana yang berkaitan;~~
- ~~(d) mengemukakan sijil atau surat pengesahan oleh Sekretariat PROTEGE kepada Agensi sebaik sahaja pelaksanaan program PROTEGE selesai; dan~~
- ~~(e) mengemukakan laporan berkaitan pelaksanaan program PROTEGE kepada Sekretariat PROTEGE.~~

No Tender:

~~9. Sekiranya syarikat tuan gagal mematuhi mana-mana terma di perenggan 7 dan 8 atau arahan oleh Kerajaan, Kerajaan berhak untuk tidak mempertimbangkan sebarang tawaran kontrak baharu atau pelanjutan kontrak pada masa hadapan kepada syarikat tuan.~~

10. Syarikat tuan juga adalah diingatkan bahawa Kerajaan berhak untuk membatalkan Surat ini sekiranya:

- (a) syarikat tuan gagal mematuhi mana-mana terma di perenggan 5 dalam tempoh masa yang ditetapkan;
- (b) syarikat tuan gagal mematuhi mana-mana terma yang dinyatakan dalam Surat Akaan Pembida Berjaya;
- (c) syarikat tuan gagal memulakan kerja dalam tempoh dua (2) minggu dari tarikh milik tapak;
- (d) syarikat tuan telah membuat salah nyataan (*misrepresentation*) atau mengemukakan maklumat palsu semasa berurusan dengan Kerajaan bagi perolehan ini atau melakukan apa-apa perbuatan lain, seperti memalsukan maklumat dalam Sijil Akaan Pendaftaran Syarikat, mengemukakan bon pelaksanaan atau dokumen lain yang palsu atau yang telah diubah suai;
- (e) syarikat tuan membenarkan Sijil Akaan Pendaftaran Syarikat disalahgunakan oleh individu/syarikat lain;
- (f) syarikat tuan terlibat dalam membuat pakatan harga dengan syarikat-syarikat lain atau apa-apa pakatan sepanjang proses tender sehingga dokumen kontrak ditandatangani;
- (g) syarikat tuan telah memberikan subkontrak sama ada sepenuhnya atau sebahagiannya perkhidmatan tanpa kelulusan Kerajaan terlebih dahulu. Sekiranya Kerajaan meluluskan permohonan syarikat tuan untuk memberikan subkontrak sebahagian kerja atau keseluruhan kerja, kelulusan tersebut adalah tertakluk kepada syarikat tuan mengikat perjanjian hak (*Deed Of Assignment*) dengan Subkontraktor terlebih dahulu;
- (h) syarikat gagal menyempurnakan kerja dalam tempoh yang ditetapkan seperti di **Lampiran A**;
- (i) syarikat tuan gagal mematuhi mana-mana terma/arahan di dalam dokumen tender;
- (j) syarikat tuan/pemilik/rakan kongsi/pengarah telah disabitkan atas kesalahan jenayah di dalam atau luar Malaysia;
- (k) syarikat tuan digulungkan;
- (l) syarikat tuan membekal barang-barang yang tidak tulen, bukan baharu atau yang terpakai;

No Tender:

- (m) kontraktor gagal/mungkir dalam melaksanakan tanggung jawabnya sepertimana ditetapkan dalam Syarat-syarat Kontrak; atau
 - (n) syarikat tuan tidak mendapat kelulusan daripada Kerajaan terlebih dahulu bagi apa-apa penjualan atau pemindahan ekuiti sepanjang tempoh kontrak ini berkuat kuasa; atau
 - (o) terdapat perkara yang melibatkan kepentingan awam atau keselamatan dan kepentingan Negara.
11. Sekiranya Surat ini dibatalkan atas alasan seperti yang ditetapkan di perenggan 9, Kerajaan tidak akan bertanggungjawab terhadap apa-apa kerugian syarikat tuan termasuk kerugian masa hadapan.
12. Bersama-sama Surat ini disertakan Surat Akuan Pembida Berjaya dan Surat Akuan Sumpah Syarikat seperti di **Lampiran B** dan **Lampiran C** untuk ditandatangani oleh syarikat tuan dan dikembalikan bersama-sama dengan Surat ini.
- (a) Senarai nama subkontraktor berserta pengalamannya dengan menyatakan bahagian kerja yang terlibat; dan
 - (b) Program Kerja bagi pelaksanaan projek ini.
13. Syarikat tuan adalah dikehendaki untuk mengemukakan dokumen berikut bersama-sama dengan Surat ini yang telah ditandatangani balas oleh tuan, untuk kelulusan Pegawai Penguasa sebelum memulakan kerja di tapak bina:
14. Berdasarkan kepada Tempoh Siap Kerja yang disebut-hargakan selama hari/minggu/bulan/tahun*, Tarikh Siap untuk seluruh kerja-kerja di bawah kontrak ini ialah
15. Surat ini dihantar kepada syarikat tuan dalam tiga (3) salinan. Sila kembalikan ke pejabat ini salinan asal dan kedua beserta lampiran yang berkaitan yang telah ditandatangani dengan sempurna oleh syarikat tuan dan saksi syarikat tuan tidak melebihi *7 hari dari tarikh Surat ini diterima untuk tindakan kami selanjutnya. Apa-apa kegagalan dalam mematuhi kehendak perenggan ini dalam tempoh masa yang ditetapkan boleh mengakibatkan Surat ini terbatal dan Kerajaan tidaklah dengan apa-apa jua bertanggungjawab terhadap syarikat tuan.

Sekian, terima kasih.

“ BERKHIDMAT UNTUK NEGARA ”

Saya yang menurut perintah

.....
(Nama Penuh Pegawai)

Jawatan Pegawai:

Tandatangan & Cop (Kerajaan):
Tandatangan & Cop (Syarikat):

No Tender:

**PENGAKUAN PENERIMAAN SURAT SETUJU TERIMA DAN LAMPIRAN YANG BERKAITAN
OLEH SYARIKAT**

Dengan ini disahkan bahawa yang bertandatangan di bawah ini mengakui penerimaan Surat ini dan lampiran yang berkaitan dan bersetuju dengan terma dan syarat yang terkandung dalam Surat ini tanpa syarat yang mana salinan kepada Surat ini telah pun disimpan, dan selanjutnya disahkan bahawa tiada apa-apa terma, syarat atau stipulasi tambahan kepada yang terkandung dalam dokumen tender dan Surat ini telah dikenakan.

.....
Nama Penuh Kontraktor :

No. Kad Pengenalan :

Alamat :

Tarikh :

.....
Nama Penuh Saksi :

No. Kad Pengenalan :

Alamat :

Tarikh :

Meterai atau Cop Syarikat

**potong mana yang tidak berkenaan*

Tandatangan & Cop (Kerajaan):

Tandatangan & Cop (Syarikat):

**BUTIRAN
KONTRAK**

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

1. Pendaftaran Syarikat Dengan Suruhanjaya Syarikat Malaysia (SSM) Atau Pendaftaran Koperasi Dengan Suruhanjaya Koperasi Malaysia (SKM) (jika berkaitan)

1.1 No.Pendaftaran :

1.2 Tempoh Sah Laku :

2. Pendaftaran dengan Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB) Di Bawah Perakuan Pendaftaran Kontraktor

2.1 No. Pendaftaran :

2.2 Tempoh Sah Laku :

2.3 Gred :

2.4 Kategori :

2.5 Pengkhususan :

3. Pendaftaran dengan Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB) Di Bawah Sijil Perolehan Kerja Kerajaan (jika berdaftar)

3.1 No. Pendaftaran :

3.2 Tempoh Sah Laku :

3.3 Gred :

3.4 Kategori :

3.5 Pengkhususan :

4. Pendaftaran dengan Bahagian Pembangunan Kontraktor dan Usahawan (BPKU) (Sijil Bumiputera) (jika berdaftar)

4.1 No. Pendaftaran :

4.2 Tempoh Sah Laku :

4.3 Gred Kontraktor :

No Tender:

5. **Pendaftaran dengan Pusat Pendaftaran Kontraktor Kerja, Bekalan Perkhidmatan Negeri Sabah (PUKONSA) (jika berdaftar)**

- 5.1 No. Pendaftaran :
- 5.2 Tempoh Sah Laku :
- 5.3 Gred Kontraktor :
- 5.4 Kepala :
- 5.5 Sub kepala :

6. **Pendaftaran dengan Pusat Pendaftaran Kontraktor Kerja, Bekalan Perkhidmatan Negeri Sabah (PUKONSA) (jika berdaftar)**

- 6.1 No. Pendaftaran :
- 6.2 Tempoh Sah Laku :
- 6.3 Gred Kontraktor :
- 6.4 Kod Bidang :

7. **Harga dan Tempoh Kontrak**

- 7.1 Harga Tender :
(butiran harga seperti di **Lampiran A1**)
- 7.2 Harga Kontrak :
- 7.3 Tempoh Kontrak :
- 7.4 Tarikh Milik Tapak :
- 7.5 Tarikh Siap Kerja :

8. **Bon Pelaksanaan**

- 8.1 Kadar Bon Pelaksanaan : 5%
- 8.2 Formula Bon Pelaksanaan : 5% x RM.....
- 8.3 Nilai Bon Pelaksanaan :

Tandatangan & Cop (Kerajaan):
Tandatangan & Cop (Syarikat):

No Tender:

- 8.4 Bentuk Bon Pelaksanaan : Jaminan Bank/ Bank Islam/ Bank Pembangunan Malaysia Berhad; atau Jaminan Syarikat Kewangan; atau Jaminan Insurans/ Takaful.

Jikalau Bon Pelaksanaan gagal dikemukakan pada tarikh milik tapak, MPKj berhak untuk melaksanakan kaedah Wang Jaminan Pelaksanaan.

- 8.5 Tempoh Sah Laku : *Dari tarikh kuat kuasa kontrak sehingga 12 bulan selepas tamat Tempoh Tanggungan Kecacatan (DLP) – bagi projek bernilai sehingga RM10 juta; atau

*Dari tarikh kuat kuasa kontrak sehingga 24 bulan selepas tamat Tempoh Tanggungan Kecacatan (DLP) – bagi projek bernilai melebihi RM10 juta.

9. **Polisi Insurans Kerja**

- 9.1 Nilai Polisi : RM.....

- 9.2 Tempoh Perlindungan : Meliputi Tempoh kontrak

10. **Polisi Insurans Tanggungan Awam**

- 10.1 Nilai Polisi : RM.....

- 10.2 Tempoh Perlindungan : Meliputi tempoh kontrak, tempoh tanggungan kecacatan dan 3 bulan 14 hari

11. **Kenaan Liquidated & ascertained Damages (LAD)**

- 11.1 Formula :

- 11.2 Kadar Sehari : RM.....

12. ***Professional Training And Education For Growing Entrepreneurs (PROTÉGÉ) (jika berkaitan)**

- 12.1 Tertakluk kepada pelaksanaan Program PROTEGE : Ya / Tidak

- 12.2 Bilangan minimum peserta PROTEGE : peserta

No Tender:

Salinan Kepada:

- ***Yang Dipertua
Majlis Perbandaran Kajang***
- ***Jabatan Perbendaharaan***
- ***Bahagian Pengurusan Kontrak dan Ukur Bahan
Jabatan Khidmat Pengurusan***
- ***Fail projek***

DOKUMEN MEJA TAWARAN

Tandatangan & Cop (Kerajaan):
Tandatangan & Cop (Syarikat):

SURAT AKUAN PEMBIDA BERJAYA/SYARIKAT

Tajuk : **CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG**

Nombor Rujukan Tender : **MPKj T3/2025**

Saya, No. Kad Pengenalan yang mewakili nombor Pendaftaran dengan ini mengisytiharkan bahawa saya atau mana-mana orang yang mewakili syarikat ini:

- iii. tidak akan menawarkan, menjanjikan atau memberikan apa-apa suapan kepada mana-mana orang dalam mana-mana **MAJLIS PERBANDARAN KAJANG** atau mana-mana orang lain, sebagai suapan untuk dipilih dalam mana-mana perolehan; dan
- iv. tidak akan melakukan atau terlibat dengan tipuan bida dalam mana-mana perolehan.

Bersama ini dilampirkan Surat Perwakilan Kuasa bagi saya mewakili syarikat seperti tercatat di atas untuk membuat pengisytiharan ini.

6. Sekiranya saya, atau mana-mana individu yang mewakili syarikat ini didapati terlibat dalam pakatan tipuan bida dengan syarikat lain berkenaan perolehan di atas atau menawarkan, menjanjikan atau memberikan apa-apa suapan kepada mana-mana orang dalam **MAJLIS PERBANDARAN KAJANG** atau mana-mana orang lain sebagai dorongan untuk dipilih dalam tender/sebut harga* seperti di atas, maka saya sebagai wakil syarikat bersetuju tindakan-tindakan berikut boleh diambil:

- 6.1. Hilang kelayakan untuk dinilai dan dilantik bagi tender/sebut harga* di atas; dan
- 6.2. Lain-lain tindakan undang-undang/tatatertib mengikut undang-undang/peraturan perolehan Kerajaan yang berkuat-kuasa.

7. Saya sesungguhnya faham bahawa:

- 7.1. saya atau mana-mana orang yang berkaitan dengan syarikat boleh didakwa bagi kesalahan* di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan Kanun Keseksaan [Akta 574] serta boleh dihukum di bawah undang-undang masing-masing atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (i) dalam surat akuan ini; atau
- 7.2. tindakan boleh dikenakan ke atas syarikat di bawah Akta Persaingan 2010 [Akta 712] atas kegagalan saya atau mana-mana orang yang mewakili syarikat ini untuk mematuhi perkara (ii) dalam surat akuan ini. Sekiranya syarikat didapati melanggar peruntukan seksyen 4(2)(d) Akta 712, syarikat boleh didenda tidak melebihi sepuluh peratus (10%) daripada pusing ganti (*turn over*) seluruh dunia sepanjang tempoh suatu pelanggaran itu berlaku.

No Tender:

8. Sekiranya terdapat mana-mana orang cuba memperolehi atau meminta apa-apa suapan daripada saya atau mana-mana orang yang berkaitan dengan syarikat ini sebagai dorongan untuk dipilih dalam tender/sebut harga* seperti di atas, maka saya berjanji akan dengan segera melaporkan perbuatan tersebut kepada pejabat Suruhanjaya Pencegahan Rasuah Malaysia (SPRM) atau balai polis yang berhampiran. Saya sedar bahawa kegagalan saya berbuat demikian adalah merupakan suatu kesalahan di bawah seksyen 25 (1) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] dan boleh dihukum di bawah seksyen 25 (2) akta yang sama, apabila disabitkan boleh didenda tidak melebihi RM100,000 atau penjara selama tempoh tidak melebihi sepuluh tahun atau kedua-duanya.
9. Saya sesungguhnya faham bahawa syarikat melakukan kesalahan jika seseorang yang bersekutu dengan syarikat** memberikan, menjanjikan atau menawarkan suapan untuk memperolehi atau mengekalkan perniagaan atau faedah dalam menjalankan perniagaan di bawah Seksyen 17A, Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], apabila disabitkan kesalahan boleh didenda tidak kurang daripada sepuluh kali ganda jumlah atau nilai suapan, atau RM1 juta, atau dipenjarakan selama tempoh tidak melebihi dua puluh tahun atau kedua-duanya.

Yang benar,

Tandatangan :

Nama : _____

No.KP : _____

Tarikh : _____

Cap Syarikat : _____

Catatan:

- (ix) *termasuk kesalahan ditetapkan dalam Jadual (Perenggan 3 (a), takrif "kesalahan ditetapkan") Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694] yang boleh dihukum di bawah Kanun Keseksaan [Akta 574].
- (x) **seseorang yang bersekutu dengan syarikat merujuk kepada seksyen 17A (6) Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694], iaitu seseorang itu bersekutu dengan organisasi komersial jika dia seorang pengarah, pekongsi atau pekerja organisasi komersial itu atau dia ialah orang yang melaksanakan perkhidmatan untuk atau bagi pihak organisasi komersial itu.
- (xi) Surat Akuan ini hendaklah dikemukakan bersama surat perwakilan kuasa.
- (xii) Takrifan perusahaan di bawah Akta 712 merangkumi syarikat yang terlibat dengan perolehan Kerajaan.

Pihak Syarikat : Penama pada sijil pendaftaran untuk menandatangani Surat ini.

Pihak Kerajaan : Pegawai yang diberi kuasa oleh Menteri di bawah seksyen 2 Akta Kontrak Kerajaan 1949 untuk menandatangani kontrak.

Tandatangan & Cop (Kerajaan):

Tandatangan & Cop (Syarikat):

SURAT AKUAN SUMPAH SYARIKAT

Saya..... nombor kad pengenalan
yang mewakili syarikat nombor pendaftaran.....
(*MOF/CIDB/SSM) dengan sesungguhnya dan sebenarnya mengaku bahawa:

- (a) syarikat **TIDAK** membuat salah nyataan (*misrepresentation*) atau mengemukakan maklumat palsu semasa berurusan dengan Kerajaan bagi perolehan ini atau melakukan apa-apa perbuatan lain, seperti memalsukan maklumat dalam Sijil Akuan Pendaftaran Syarikat, mengemukakan bon pelaksanaan atau dokumen lain yang palsu atau yang telah diubah suai;
- (b) syarikat **TIDAK** membenarkan Sijil Akuan Pendaftaran Syarikat disalahgunakan oleh individu/syarikat lain;
- (c) syarikat **TIDAK** terlibat dalam membuat pakatan harga dengan syarikat-syarikat lain atau apa-apa pakatan sepanjang proses *sebut harga/tender sehingga dokumen kontrak ditandatangani;
- (d) syarikat/ pemilik/ rakan kongsi/ pengarah **TIDAK** disabitkan atas kesalahan jenayah di dalam atau luar Malaysia; dan
- (e) syarikat **TIDAK** digulungan.

Sekiranya pada bila-bila masa, dibuktikan bahawa pengisytiharan perenggan di atas adalah tidak benar, Kerajaan berhak menarik balik tawaran kontrak atau menamatkan perkhidmatan syarikat bagi projek ini.

Dan saya membuat Surat Akuan Bersumpah ini dengan kepercayaan bahawa apa-apa yang tersebut di dalamnya adalah benar serta menurut Akta Akuan Berkanun 1960.

Diperbuat dan dengan)
sebenar-benarnya diakui oleh)

Tandatangan.....

.....
di.....
pada
Di hadapan saya,

.....
Pesuruhjaya Sumpah Catatan:

- i. *Potong mana yang tidak berkenaan.
- ii. Surat akuan ini hendaklah ditandatangani oleh hanya penama di sijil pendaftaran MOF/CIDB.

**BORANG KONTRAK STANDARD
(JKR 203A)**

GOVERNMENT OF MALAYSIA

STANDARD FORM OF CONTRACT TO BE USED WHERE BILLS OF QUANTITIES FORM PART OF THE CONTRACT

P.W.D. FORM 203A (Rev. 1/2010)

**CONDITION OF CONTRACT
TO BE USED WHERE BILLS OF QUANTITIES
FORM PART OF THE CONTRACT**

PWD FORM 203A (Rev. 1/2010)

This form has been approved by Attorney General's Chamber

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CONTRACT NO : _____ of 20 _____

EXPENDITURE to be met from: Head

Sub-head

Year of

A CONTRACT made on day of 20..... between the Malis Perbandaran Kajang (hereinafter referred to as the "Government") of the one part and (Company No.:) (hereinafter called the "Contractor") and having its registered address at of the other part.

(The Government and the Contractor shall hereinafter individually be referred to "Party" or collectively as the "Parties")

WHEREAS:

- A. The Government is desirous of **CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG** (hereinafter referred to as the 'Works') and has caused Drawings, Bills of Quantities, Specification describing the work to be done to be prepared.
- B. The said Drawings numbered as per List of Drawing Used in The Preparation of Bills of Quantities (hereinafter referred to as the "Contract Drawings"), and the Bills of Quantities, Specification, Form of Tender and Letter of Acceptance of Tender have been signed by or on behalf of the Parties hereto.

NOW IT IS HEREBY AGREED AS FOLLOWS:

1.0 DEFINITIONS AND INTERPRETATION

1.1 Definition

Unless the context otherwise requires, this Contract or an item or entry in the Appendices specifically otherwise provides, the following words and phrases in this Contract and the

Appendices shall have the meaning given below or ascribed in the clauses or Appendix item to which reference is made:

- (a) **“Contract”** means this contract and the appendices attached hereto;
- (b) **“Contract Documents”** means the documents forming the tender and acceptance thereof including:
- Form of Tender;
 - Letter of Acceptance of Tender;
 - Contract Drawings;
 - Bills of Quantities;
 - Specifications;
 - Treasury’s Instructions;
 - Addendum No.1, ~~No.2~~, No.3, No.4, No.5, No.6, No.7 & No.8;
 - Special Provision to The Conditions of Contract;
 -
- and all these documents shall be complementary to one another;
- (c) **“Contractor”** means the person or persons, sole proprietor, partnership, firm or company whose tender for the Works has been accepted and who has or have signed this Contract and includes the Contractor’s personal representatives, heirs, successors, executors, administrators, servant and agent;
- (d) **“Contract Period”** means the time frame stipulated in clause 2;
- (e) **“Contract Sum”** means the sum stipulated in clause 7;
- (f) **“Date for Completion”** means the date fixed and stated in Appendix or any other date as provided for in clause 39;
- (g) **“Defects Liability Period”** means the period stated in Appendix or if none stated, the period is twelve (12) months from the date of practical completion certified by the S.O. as provided for under clause 39.3;
- (h) **“Nominated Sub-Contractor” or “Nominated Supplier”** means all specialist, merchants, tradesmen and others executing any work or services, or supplying any materials or goods for which Prime Cost Sum (or P.C. Sums) are included in the Bills of Quantities or which the S.O. has given written instructions in regard to the expenditure of Provisional Sum and who may be nominated by the S.O. and employed by the Contractor as Sub-contractors or Suppliers;
- (i) **“On-Cost Charges”** means any cost and expenses reasonably incurred by the Government;
- (j) **“Officer Named”** means officer empowered to take action on behalf of the Government pertaining to clauses 51, 52, 53, 58, 66;
- (k) **“Prime Cost” or** means a sum for works or services to be executed by a Nominated Sub-Contractor or sums for materials or goods to be

- abbreviation "P.C. Sum"** obtained from a Nominated Supplier;
- (l) **"Provisional Sum"** means a sum for work or for the supply of goods or materials which cannot be defined or detailed at the time the tender documents are issued;
- (m) **"Site"** means the land and other places on, above, under, in or through which the Works are to be executed and any other lands or places provided or approved by the Government for working space or any other purposes as may be specifically designated in this Contract and whether the same may be on the Site or not;
- (n) **"S.O."** means the Superintending Officer who shall be "Yang Dipertua, Majlis Perbandaran Kajang" and/or his successors in office;
- (o) **"S.O.'s Representatives"** means any person or persons delegated or authorised in writing by the S.O. to perform any of the duties of the S.O. as may be from time to time notified in writing to the Contractor by the S.O. pursuant to clause 3.3(a) of this Contract;
- (p) **"Works"** means the works specified in the Contract Documents and shall include temporary works.

1.2 Interpretation

- (a) The terms "approved or approval" and "directed or direction" wherever used in this Contract shall be in writing.
- (b) Words importing the singular include the plural and vice versa where the context requires.
- (c) The headings are for convenience of reference only and shall not be deemed to be part of this Contract or be taken into consideration in the interpretation or construction of this Contract.
- (d) Unless otherwise specifically stated, a reference in this Contract and the Appendices to any clause means that clause in this Contract.
- (e) This Contract and the Appendices are to be read as a whole and the effect or operation of any clause in this Contract or item in or entry in the Appendices shall, unless otherwise specifically stated, be read subject to any relevant qualification or modification in any other clauses in this Contract or item in or entry in the Appendices.

2.0 CONTRACT PERIOD

The Contract Period shall be for a period of **18 BULAN** commencing from..... ending on

3.0 THE S.O. AND S.O.'S REPRESENTATIVE

3.1 Duties of S.O. and S.O.'s Representative

The S.O. shall be responsible for the overall supervision and direction of the Works. All matters regarding the Works shall be dealt with by the Contractor with the S.O.

3.2 S.O.'s Representative

- (a) The S.O. may from time to time appoint such number of S.O.'s Representative as he deems fit.
- (b) The S.O.'s Representative shall be responsible to the S.O. and his duties are to watch and supervise the Works and to test and examine any materials or goods to be used or workmanship employed in connection with the Works.

3.3 S.O.'s Authority to Delegate

- (a) The S.O. may from time to time in writing delegate to the S.O.'s Representative any of the powers and authorities vested in the S.O. as listed in the letter of delegation and shall furnish to the Contractor a copy of all such written delegation of powers and authorities.
- (b) Any instruction or approval given by the S.O.'s Representative to the Contractor within the terms of such delegation shall bind the Contractor and the Government as though it had been given by the S.O. PROVIDED THAT failure of the S.O.'s Representative to disapprove any work or material shall not prejudice the power of the S.O. thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof.
- (c) If the Contractor is not satisfied with any decision of the S.O.'s Representative, the Contractor shall refer the matter to the S.O. who shall confirm, reverse or vary the decision of the S.O.'s Representative.
- (d) The delegation under this clause shall not preclude the S.O. from himself exercising or performing at any time any of the delegated powers and duties.

4.0 S.O.'S RIGHT TO TAKE ACTION

4.1 Notwithstanding any provision in this Contract it is hereby agreed that:

- (a) the power of the S.O. to issue instruction requiring a variation under clause 24 shall be subject to the financial limits as set out in Appendix 1 hereto. If the instruction for a variation under clause 24 is more than the financial limits as set out in the Appendix 1, the S.O. shall obtain the prior written approval of the relevant authorities of the Government; and
- (b) the right to act on behalf of the Government in respect of any matter which arises out of the provisions of clauses 51, 52, 53, 58 and 66 shall be exercised by the Officer Named in Appendix 1;

4.2 The Contractor shall not be entitled to extension of time or any additional cost or expense or whatsoever arising from compliance with this clause 4.

5.0 S.O.'S INSTRUCTIONS

5.1 The S.O. may from time to time issue further drawings, details and/or written instructions (all of which are hereafter collectively referred to as "S.O.'s instructions") in regard to-

- (a) the Variation as referred to in clause 24 hereof;
- (b) any discrepancy in or between the Contract Documents as referred to in clause 8.2(b) hereof;

- (c) the removal from the Site of any materials or goods brought thereon by the Contractor and the substitutions of any other materials or goods therefore;
- (d) the removal and/or re-execution of any works executed by the Contractor;
- (e) the dismissal from the Works of any person mentioned in clause 23.6 hereof employed thereupon;
- (f) the opening up for inspection of any work covered up;
- (g) the amending and making good of any defects whatsoever under clause 48;
- (h) any matter which is necessary and incidental to the carrying out and completion of the Works under this Contract; and
- (i) any matter in respect of which the S.O. is expressly empowered by this Contract to issue instructions.

5.2 All instructions issued by the S.O. shall be in writing. The Contractor shall forthwith comply with all instructions issued to him by the S.O. If such instruction is given orally, the S.O. shall then issue a written instruction within seven (7) days from the date of such oral instruction is given.

5.3 If within seven (7) days after receipt of a written notice from the S.O. requiring compliance of an instruction and the Contractor does not comply therewith, then the S.O. without prejudice to any other rights or remedies available to the Government under this Contract, undertake the work departmentally or employ and pay another Contractor or any other persons to execute any work whatsoever which may be necessary to give effect to such instruction. All costs and expenses incurred in connection with such employment (including On-Cost Charges), shall be deducted from any money due or to become due to the Contractor under this Contract, and failing which such deductions shall be recovered from the Performance Bond or as a debt due from the Contractor.

5.4 The Contractor shall be responsible for all costs and expenses incurred by the Government in carrying out the Works under clause 5.3 and On-Cost Charges (calculated by applying the Percentage of On-Cost Charges stated in Appendix hereto to the amount incurred). The Government shall be entitled to deduct such costs, expenses and On-cost Charges or any part thereof from any monies due or to become due to the Contractor under this Contract or to recover the same from the Performance Bond or as a debt due from the Contractor.

6.0 SCOPE OF CONTRACT

6.1 The Contractor shall upon and subject to this Contract, construct and complete the Works using materials, goods and workmanship of the quality and standards therein specified in accordance with best industry practice.

6.2 The Contractor shall also undertake any consequential work in relation to the construction and completion of Works on the Site i.e. removal/diversion of public sewer, water mains, electrical mains, gas mains and telephone mains and the installation of permanent connections thereto shall be borne by the Government. The Government shall reimburse the Contractor for such costs by adding it to the Contract Sum PROVIDED THAT such cost have not already been included in the Contract Sum by way of a Provisional Sum or otherwise.

PROVIDED FURTHER any temporary connection shall be obtained by the Contractor with no additional cost to the Government for purpose of carrying out their work.

6.3 The Contractor shall also make good any defect, imperfection, shrinkage or any other fault whatsoever which may appear during the Defects Liability Period in accordance with clause 48 hereof.

7.0 CONTRACT SUM

The Government hereby covenants to pay the Contractor in consideration of the construction and completion of the Works and making good of any defects whatsoever to the Works the sum of Ringgit:

.....
..... (RM.....) or such other sum as shall become payable under and at the times and in the manner specified in this Contract.

8.0 CONTRACT DOCUMENTS

8.1 Custody of the Contract Documents

- (a) The Contract shall be prepared in two (2) original copies. The original copies of the Contract shall remain in the custody of the S.O. and the Contractor.
- (b) Immediately after the execution of this Contract, the S.O. shall furnish to the Contractor without any charge (unless he shall have been previously furnished) with:
 - (i) two (2) copies of the Contract Drawings; and
 - (ii) two (2) copies of the unpriced Bills of Quantities and (if requested by the Contractor) one copy of the priced Bills of Quantities.
- (c) The S.O. shall, as and when necessary and without charge to the Contractor, furnish him with two (2) copies of such further working drawings or details as are reasonably necessary either to explain and amplify the Contract Drawings or the Specification (if any) or to enable the Contractor to construct and complete the Works in accordance with this Contract. PROVIDED THAT nothing contained in the said working drawings or details shall impose any obligation beyond those imposed by the Contract Documents.
- (d) The Contractor shall keep one copy of the Contract Drawings, the Specification (if any), unpriced Bills of Quantities, priced Bills of Quantities (if any) and other like documents referred to in sub-clause (c) hereof on the Site and the S.O. shall at all reasonable times have access to the same.
- (e) Upon final payment being made pursuant to the issuance of Final Account and Payment Certificate under clause 31, the Contractor shall return to the S.O. all drawings, details, specifications, unpriced copy of Bill of Quantities and priced Bill of Quantities, if any.
- (f) None of the documents hereinbefore mentioned shall be used by the Contractor for any purpose other than this Contract.

8.2 Sufficiency of Contract Documents

- (a) The Contract documents are to be taken as mutually explanatory of one another. The Contractor shall provide everything necessary for the proper execution of the Works until its completion according to the true intent and meaning of the Contract Documents taken together whether the true intent and meaning may or may not be particularly shown or described PROVIDED THAT it can be reasonably inferred therefrom.
- (b) If the Contractor shall find any discrepancy in or divergence between any two or more of the Contract Documents including a discrepancy or divergence between parts of any one of them, he shall immediately give to the S.O. a written notice specifying the

discrepancy or divergence and the S.O. shall issue instructions in regard thereto PROVIDED ALWAYS that such discrepancy or divergence shall not vitiate this Contract.

9.0 REPRESENTATIONS, WARRANTIES AND UNDERTAKINGS OF THE CONTRACTOR

9.1 Representations and Warranties

The Contractor hereby represents and warrants to the Government that—

- (a) it is a corporation validly existing under the laws of Malaysia*;
- (b) the Contractor has obtained a valid registration with the Construction Industry Development Board;
- (c) it has the corporate power to enter into and perform its obligations under this Contract and to carry out the transactions and to carry on its business as contemplated by this Contract*;
- (d) it has taken all necessary corporate actions to authorize the entry into and performance of this Contract and to carry out the transactions contemplated by this Contract*;
- (e) as at the execution date, neither the execution nor performance by it of this Contract nor any transactions contemplated by this Contract will violate in any respect any provision of—
 - (i) its Memorandum and Articles of Association; or
 - (ii) any other document or agreement which is binding upon it or its asset*;
- (f) no litigation, arbitration, tax claim, dispute or administrative proceeding is presently current or pending or, to its knowledge, threatened, which is likely to have a material adverse effect upon it or its ability to perform its financial or other obligations under this Contract;
- (g) this Contract constitutes a legal, valid and binding obligation of the Contractor and is enforceable in accordance with its terms and conditions;
- (h) it has necessary financial and technical capability to undertake the Works,

and the Contractor acknowledges that the Government has entered into this Contract in reliance on its representations and warranties as aforesaid.

9.2 Undertakings of the Contractor*

The Contractor undertakes that-

- (a) it shall comply with all requirements, statutory or otherwise, regulating or relating to the conduct, trade, business or profession of a contractor, and the Contractor shall be fully and solely liable for all costs incurred thereby;

applicable only if the Contractor is a company registered under the Companies Act 1965.

- (b) it shall pay all taxes that may be imposed on the profits made in respect of this Contract in accordance with the applicable laws; and
- (c) it shall ensure that all his employees, including non-Malaysian personnel, comply with all relevant laws to which they are subject to including payment of income tax, which in respect thereto the Contractor shall make such deductions from the salaries of his employees as may be lawfully imposed by the relevant authority.

10.0 OBLIGATIONS OF THE CONTRACTOR

The Contractor shall–

- (a) construct, complete, test and commission the Works in accordance with the Specifications, Contract Drawings and any other documents specified in the Contract Documents;
- (b) perform the Works in a proper manner and in accordance with good management practice and to the best advantage of the Government;
- (c) take all appropriate measures expected of a contractor providing similar works to ensure that the Works comply with the requirements of this Contract;
- (d) perform the Works and discharge its obligations as contained in this Contract by exercising professional judgment and practice, requisite skill, care and diligence. In performing the Works, the Contractor shall provide well-outlined procedures in the form agreed by the Government for reporting and co-ordination purposes;
- (e) at all times perform the Works in such manner as will always safeguard and protect the Government's interest in relation to the Works and take all necessary and proper steps to prevent abuse or uneconomical use of facilities, if any, made available by the Government to the Contractor;
- (f) inform the Government immediately in writing of the occurrence of any factor or event, which is likely to affect the Works. Such notification shall not be construed as a discharge of any of the Contractor's obligations under this Contract;
- (g) provide and maintain throughout the Contract Period such number, categories of qualified and competent personnel necessary to perform the Works;
- (h) provide and maintain at its own cost and expense all equipment and materials necessary for the proper and effective performance of the Works;
- (i) instruct and supervise its staffs and sub-contractor in carrying out the Works' repairs and other works in relation to the Works;
- (j) make good any defect, imperfection, shrinkage or any other fault whatsoever which may appear during the Defects Liability Period; and
- (k) carry out any other obligations and responsibilities under this Contract.

11.0 INSPECTION OF SITE

11.1 The Contractor shall be deemed to have inspected and examined the Site and its surroundings and to have satisfied himself before submitting his tender as to the following:

- (a) the nature of the ground and subsoil;

- (b) the form and nature of the Site;
 - (c) the extent and nature of the work, materials and goods necessary for the completion of the Works;
 - (d) the means of communication with and access to the Site;
 - (e) the accommodation he may require; and
 - (f) in general to have obtained for himself all necessary information as to risks, contingencies and all circumstances influencing and affecting his tender.
- 11.2** Any information or document forwarded by the Government to the Contractor shall not relieve the Contractor of his obligations under the provisions of this clause.

12.0 PROGRAMME OF WORK

- 12.1** Within fourteen (14) days from the receipt of the Letter of Acceptance by the Government, the Contractor shall submit to the S.O for his approval -
- (a) a work programme for the carrying out of the Works (hereinafter referred to as "Work Programme") in such form and details as determined by the S.O. showing the detail activities of the Works so as to enable the Government to monitor the progress thereof; and
 - (b) a general description in writing, of the arrangements and methods of construction which the Contractor proposes to adopt for the carrying out of the Works.
- 12.2** The S.O shall within(....) days after receipt of the Contractor's programme:
- (i) approve the Work Programme in writing; or
 - (ii) reject the Work Programme in writing with reasons and/or request modifications; and/or
 - (iii) request the Contractor to supply further information to clarify or substantiate the Work Programme or to satisfy the S.O as to its reasonableness having regard to the Contractor's obligations under the Contract,

PROVIDED THAT if none of the above actions is taken within the said period of (....) days the S.O shall be deemed to have approved the Work Programme as submitted.

- 12.3** The Contractor shall upon receipt from the S.O any request under clause 12.2(ii) or (iii) resubmit a modified Work Programme or provide further information as requested.
- 12.4** If at any time it should appear to the S.O that the actual progress of Works does not conform to the approved Work Programme referred to herein before the Contractor shall produce, at the request of the S.O., a revised Work Programme showing the modifications to the approved Work Programme necessary to ensure completion of the whole Works within the time for completion provided for in clause 39 hereof or extended time granted pursuant to clause 43 hereof.
- 12.5** The submission to and approval by the S.O or the S.O's Representative of such Work Programme or the furnishing of such particulars shall not relieve the Contractor of any of his duties or responsibilities under this Contract.

13.0 PERFORMANCE BOND/PERFORMANCE GUARANTEE SUM

- 13.1(a) The Contractor shall, on the date of the possession of Site, provide a Performance Bond or Performance Guarantee Sum as the case may be substantially in the form as in Appendix issued by an approved licensed bank or financial institution incorporated in Malaysia in favour of the Government for a sum equivalent to five percent (5%) of the total Contract Sum as specified in Appendix to secure the due performance of the obligations under this Contract by the Contractor. The Performance Bond shall remain valid and effective until twelve (12) months after the expiry of the Defect Liability Period or the issuance of the Certificate of Completion of Making Good Defects, whichever is the later.
- (b) If the Contractor fails to submit the said Performance Bond as specified in sub-clause (a) above on the date of possession of site, then the Contractor shall be deemed to have opted for Performance Bond in the form of Performance Guarantee Sum as provided for under clause 13.2 hereof.
- 13.2 The Contractor may opt for a Performance Bond in the form of Performance Guarantee Sum in lieu of the Bank, Insurance or Finance Company Guarantee as specified in clause 13.1 hereof whereby deductions of ten percent (10%) shall be made from the first interim payments and subsequent interim payment until the total amount deducted aggregate to a sum equivalent to five (5) percent of the Contract Sum. The amount deducted shall be retained by the Government up to twelve (12) months after the expiry of the Defect Liability Period or the issuance of the Certificate of Completion of Making Good Defects, whichever is the later.
- 13.3 Notwithstanding anything contained in this Contract, the Government shall be entitled at any time to call upon the Performance Bond, wholly or partially, in the event that the Contractor fails to perform or fulfil its obligations under this Contract and such failure is not remedied in accordance with this Contract.
- 13.4 If a payment is made to the Government pursuant to any claim under the Performance Bond, the Contractor shall issue to the Government further security in the form of additional performance bond or bonds for an amount not less than the amount so paid to the Government on or prior to the date of such payment so that the total sum of the Performance Bond shall be maintained at all times at the value specified in clause 13.1(a).
- 13.5 The Performance Bond (or any balance thereof remaining for the credit of the Contractor) may be released or refunded to the Contractor on the completion of making good of all defects, shrinkages or other faults which may appear during the Defects Liability Period and upon the giving of the Certificate of Completion of Making Good Defects for the whole of the Works under clause 48.
- 13.6 Notwithstanding the above, in the event that this Contract is terminated under clause 51 hereof the said Performance Bond or any balance thereof shall be forfeited.

14.0 INDEMNITY IN RESPECT OF PERSONAL INJURIES AND DAMAGE TO PROPERTY

14.1 The Contractor agrees with the Government that—

- (a) it shall perform all of its obligations under this Contract at its own risk and releases, to the fullest extent permitted by law, the Government and their agents and servants from all claims and demands of every kind resulting from any accident, damage, injury or death arising from the carrying out of the Works except where such accident, damage, injury or death is caused or contributed to by any act or omission or negligence of the Government or its agents and servants. The Contractor expressly agrees that in the absence of any such act, omission or negligence as aforesaid the Government shall have no responsibility or liability whatsoever in relation to such accident, damage, injury or death;

- (b) it shall indemnify and keep indemnified the Government from and against all actions, suits, claims or demands, proceedings, losses, damages, compensation, costs (including legal cost), charges and expenses whatsoever to which the Government shall or may be or become liable in respect of or arising from—
- (i) the negligent use, misuse or abuse by the Contractor or its personnel, servants, agents or employees appointed by the Contractor;
 - (ii) any loss or damage to property or injury of whatsoever nature or kind and howsoever or wherever sustained or caused or contributed to by carrying out of the Works by the Contractor to any person and not caused by the negligence or wilful act, default or omission of the Government, its agents or servants; or
 - (iii) any loss, damage or injury from any cause whatsoever to property or persons affected by the Works to the extent to which the same is occasioned or contributed to by the act, omission, neglect, breach or default of the Contractor or personnel, servants, agents or employees; and
- (c) the obligations under this clause shall continue after the expiry or earlier termination of this Contract in respect of any act, deed, matter or thing happening before such expiration or termination of this Contract.
- 14.2** The Contractor shall indemnify, protect and defend at its own cost and expense, the Government and its agents and servants from and against all actions, claims and liabilities arising out of acts done by the Contractor in the performance of this Contract.

15.0 INSURANCE AGAINST PERSONAL INJURIES AND DAMAGE TO PROPERTY

15.1 Taking of Insurance

- (a) Without prejudice to his liability to indemnify the Government under clause 14 hereof, the Contractor shall, as a condition precedent to the commencement of any work under this Contract, effect and maintain such insurances whether with or without an excess amount as specified in Appendix hereto as are necessary to cover the liability of the Contractor and all sub-contractors, whether nominated or otherwise.
- (b) Such insurance shall be for the purpose of personal injuries or death, damage or loss to property, movable or immovable, arising out of, or in the course of, or by reason of the execution of the Works and caused by any negligence, omission, breach of contract or default of the Contractor or any sub-contractor, whether nominated or otherwise, or of any servants or agents of the Contractor or of any such sub-contractor, whether nominated or otherwise. Where an excess amount is specified in Appendix, the Contractor shall bear the amount of such excess. The policy or policies of insurance shall contain a cross liability clause indemnifying each of the jointly insured against claims made by on him by the other jointly insured.
- (c) Such insurance as referred to under sub-clause (a) hereof shall be effected with an insurance company as approved by the Government and maintained in the joint names of the Government and Contractor and all sub-contractors, whether nominated or otherwise. Such insurance shall cover from the period of the date of possession of site until the date of issuance of Certificate of Making Good Defects for any claim occasioned by the Contractor or any sub-contractor in the course of any operations carried out by the Contractor or any sub-contractor for the purpose of complying with his obligations under Clause 48 hereof.

15.2 Production of Policies

It shall be the duty of the Contractor to produce and shall deposit the relevant policy or policies of the insurance together with receipts in respect of premiums paid to the S.O., whether demanded or not.

15.3 Default in Insuring

If the Contractor fails to effect or renew such insurances as are required to be effected and maintained under this Contract, the Government or the S.O. on its behalf may effect or renew such insurance and shall be entitled to deduct a sum equivalent to the amount in respect of the premiums paid and On-Cost Charges (calculated by applying the 'Percentage for On-cost Charges' stated in Appendix hereto to the premiums paid), from any money due or to become due to the Contractor under this Contract or to recover the same from the Performance Bond or as a debt due from the Contractor.

15.4 Cancellation of Insurance

- (a) The Contractor shall ensure that any insurance policy effected hereto shall only be cancelled by the insurer after the expiry of thirty (30) days from the date of receipt by the Government of a written notice from the insurer advising of such impending cancellation PROVIDED THAT the Contractor has been issued with the Certificate of Making Good Defects in accordance with clause 48.
- (b) The Contractor shall not at any time permit or cause to be done any act, matter or thing which may result in any insurance effected by virtue of this Contract being vitiated or rendered void or voidable or whereby the rate of the premium on any insurance effected shall be liable to be increased.

15.5 Loss or Damage Occasioned by Insured Risk

- (c) In the event of any damage or loss occurring during the performance of this Contract, the Contractor shall repair, replace or make good such damage or loss from the amount of insurance claimed, if sufficient, or if insufficient, using his own resources.

16.0 INDEMNITIES TO GOVERNMENT IN RESPECT OF CLAIMS BY WORKMEN

16.1 Workmen Compensation

- (a) The Contractor shall be liable for and shall indemnify and keep indemnified the Government and its officers or servants from all liabilities arising out of claims by any workman employed by the Contractor in and for the performance of this Contract for payment of compensation under or by virtue of the Workmen's Compensation Act 1952 and the Employee's Social Security Act 1969 or any other law amending or replacing such law and from all costs and expenses incidental and consequential thereto.
- (b) The Contractor shall effect and maintain throughout the Contract Period a "Workmen Compensation Insurance" or any other applicable insurance for its personnel, servants, agents or employees required under the laws of Malaysia.

17.0 EMPLOYEES' SOCIAL SECURITY ACT, 1969

17.1 Registration with SOCSO

Without prejudice to his liability to indemnify the Government under clause 16, the Contractor shall register or cause to register all local workmen employed in the execution of the Works and who are subject to registration under the Employee's Social Security Scheme ("the SOCSO Scheme") in accordance with the Employee's Social Security Act 1969 or any subsequent modification or re-enactment of the said Act. For the purpose of this sub-clause, the term "local workmen" shall include workmen who are Malaysian citizens and those who have permanent resident status.

17.2 Contribution to SOCSO

The Contractor shall submit the Code Number and Social Security Numbers of all the workmen registered under the SOCSO scheme to the S.O. for verification. The Contractor shall make payment of all contribution from time to time on the first contribution day on which the same ought to be paid and until the completion of this Contract and it shall be the duty of the Contractor to produce to the S.O. contribution statement or payment vouchers as evidence of payment of such contribution, whether demanded or not.

17.3 Default in Complying with SOCSO

If the Contractor fails to comply with the terms of this Clause, the Government or the S.O. on its behalf may without prejudice to any other remedy available to the Government for breach of any terms of this Contract:

- (a) withhold an amount from any money which would otherwise be due to the Contractor under this Contract and which in the opinion of the S.O. will satisfy any claims for compensation by workmen that would have been borne by SOCSO Scheme had the Contractor not made default in maintaining the contribution; and/or
- (b) pay such contributions as have become due and remain unpaid and deduct the amount of such contributions including On-Cost Charges (calculated by applying the Percentage of On-Cost Charges stated in Appendix to the contributions paid), from any money due or to become due to the Contractor under this Contract, and failing which such contributions shall be recovered from the Performance Bond or as a debt due from the Contractor.

18.0 INSURANCE OF WORKS

18.1 Taking of Insurance

- (a) The Contractor shall in the joint names of the Government and the Contractor insure against loss and damage by fire, lightning, explosion, storm, tempest, flood, ground subsidence, bursting or overflowing of water tanks, apparatus or pipes, aircraft and other aerial devices or articles dropped therefrom, riot and civil commotion, all work executed and all unfixed materials and goods, delivered to, placed on or adjacent to the Works and intended therefore (but excluding temporary buildings, plant, tools and equipment owned or hired by the Contractor or any sub-contractor, nominated or otherwise) to the full value thereof (plus any amount which may be specifically stated in Appendix or elsewhere in the Contract Documents) and shall keep such work, materials and goods so insured until the completion of the whole of the Works, notwithstanding any arrangement for Sectional Completion or Partial Occupation by the Government under this Contract. Such insurance policy or policies shall provide expressly for payment in the first place to the Government of any insurance monies due under the policy or policies.
- (b) The said insurance with or without an excess clause as specified in Appendix hereto shall be effected with an insurance company approved by the S.O. and it shall be the duty of the Contractor to produce to the S.O. the said policy or policies and the receipts in respect of the premium paid. Where an excess clause is specified in Appendix, the Contractor shall bear the amount of such excess.

18.2 Default in Insuring

If the Contractor fails to effect or renew such insurance as are necessary under this clause, the Government or the S.O. on its behalf may renew such insurance and pay the premium in respect thereof and deduct the amount so expended including On-Cost Charges (calculated by applying the 'Percentage of On-cost Charges' stated in Appendix to the premiums paid), from any money

due or to become due to the Contractor under this Contract, and failing which such premium shall be recovered from the Performance Bond or as a debt due from the Contractor.

18.3 Payment of Insurance in the Event of any Loss/Damage

Upon the occurrence of any loss or damage to the Works or unfixed materials or goods prior to the date the Works has been certified as practically completed by the S.O. in the Certificate of Practical Completion, the Contractor shall notwithstanding that settlement of any insurance claim has not been completed, with due diligence restore, replace or repair the same, remove and dispose of any debris and proceed with the carrying out and completion of the Works. All money if and when received from the insurance under this clause shall be paid in the first place to the Government and then (less any such amounts as are specifically required in Appendix or elsewhere in the Contract Documents) be released to the Contractor by instalments on the certificate for payment issued by the S.O., calculated as from the date of receipt of the money in proportion to the extent of the work of restoration, replacement or repair and the removal and disposal of debris previously carried out by the Contractor. The Contractor shall not be entitled to any payment in respect of the work of restoration, replacement or repair and the removal and disposal of debris other than the money received under the said insurance.

18.4 Cancellation of Insurance Policy

The Contractor shall ensure that any insurance policy effected hereto shall only be cancelled by the insurer after the expiry of thirty (30) days from the date of receipt by the Government of a written notice from the insurer advising of such impending cancellation PROVIDED THAT the Contractor has been issued with the Certificate of Making Good Defects in accordance with clause 48.

19.0 SETTING OUT

19.1 The Contractor shall be responsible for the true and proper setting out of the Works and for the correctness of the positions, levels, dimensions and alignments of all parts of the Works and for the provisions of all necessary instruments, appliances and labour in connection therewith.

19.2 If at any time during the progress of the Works any error in the positions, levels, dimensions or alignments of any part of the Works is discovered, the Contractor shall at his own expense rectify such error unless such error is based on incorrect data supplied in writing by the S.O.'s Representative in which case the expense of rectifying shall be borne by the Government.

19.3 If at any time during the progress of the Works, any error shall appear or arise in the setting-out required to construct the Works or in the position, levels, dimensions or alignment of any part of the Works, the Contractor, on being required to do so by the S.O., shall at his own expense rectify such error to the satisfaction of the S.O. The checking of any setting out of or of any line or level by the S.O. shall not in any way relieve the Contractor of his responsibility for the correctness thereof and the Contractor shall carefully protect and preserve all things used in the setting-out required for the construction of the Works until the S.O. agrees that the said things may be abandoned.

19.4 The Contractor shall give to the S.O. without charge such information as may be required by the S.O. to enable him to check the setting-out required for the construction of the Works including interpreting any marks made by the Contractor for the purpose of setting out.

20.0 UNFIXED MATERIALS AND GOODS

Unfixed materials and goods delivered to, placed on or adjacent to the Site and intended for incorporation therein, shall not be removed except for use upon the Works, unless the S.O. has consented in writing to such removal. Where the S.O. has included the value of such materials or

goods in any certificate in accordance with clause 28, under which the Contractor has received payment, such materials and goods shall become the property of the Government, but the Contractor shall remain responsible for loss or damage to the same.

21.0 COMPLIANCE WITH THE LAW

- 21.1** The Contractor shall comply in all respects (including the giving of all notices and the paying of all fees required) with any law, regulation or by-law, or any order or directive issued by any public authority or public service company (hereinafter referred to as "Statutory Requirements"), relating to the Works or, in the case of public authority or public service company, with those systems the same are or will be connected. The Contractor shall submit to the S.O. all approvals received by the Contractor in connection therein. The Contractor shall keep the Government indemnified against all penalties and liability of every kind for breach of any such Statutory Requirements.
- 21.2** If after the Date of Tender (as specified in Appendix) there is any change or amendment in any written law, regulations and by-laws which necessitates any variation to the Works, the Contractor shall, before making such variation, give to the S.O. a written notice specifying and giving the reason for such variation and apply for the S.O.'s instruction in respect of the matter.

22.0 DESIGN

22.1 Design Liability

- (a) Notwithstanding any design and specifications supplied by the Government, if the Contractor is required under this Contract to undertake the design of any part of the Works which is a stand alone design as determined by the Government, the Contractor shall ensure that such design is suitable, functional, safe, compatible and integrates with the design and specifications of the Works and it shall be undertaken, approved and endorsed by a competent and registered professional.
- (b) The Contractor shall submit to the S.O. all drawings, specifications, calculations and any other relevant information pertaining to the stand alone design for approval. No work shall commence without prior written consent of the S.O.
- (c) The Contractor shall be fully responsible and guarantee the Government that the stand alone design, integration, execution of the Works, materials and workmanship for the Works or part of the Works are independent of fault, suitable, functional, safe and compatible with the requirements of the Government.
- (d) The approval of the stand alone design by the S.O pursuant to sub-clause (b) shall not absolve the Contractor from its responsibility under sub-clause (c) and the Contractor shall be liable and shall fully indemnify and keep the Government indemnified for any design defects, damage, inadequacies or insufficiency of such design.

22.2 Design Guarantee Bond

- (a) The Contractor shall provide a Design Guarantee Bond for the stand alone design issued by an approved licensed bank or financial institution of the sum of Ringgit ... (RM...) amounting to 5% of the value of the said part of the Works substantially in the form as in Appendix [.....] upon or before the issuance of the Certificate of Practical Completion of the Works as a security for the Contractor's obligations and warranties under Clause 22.1. Such Design Guarantee Bond shall remain valid for a period of 5 years from the date of practical completion of the Works.
- (b) If any defect or damage shall occur to that particular part of the Works as a result of any defect, fault, insufficiency, imperfection, shrinkages or inadequacy in the stand alone

design including workmanship, materials or equipment which has become defective arising from design fault then the approved licensed bank or financial institution issuing the Design Guarantee Bond pursuant to sub-clause (a) above shall pay to the Government, on demand by the Government in writing notwithstanding any objection by the Contractor or any third party, the sum of being equal to 5% of the value of the said part of the Works or such part thereof as may be demanded.

- (c) If the Design Guarantee Bond is not deposited with the Government in accordance with sub-clause (a) above, the Government shall have the right to claim from the Performance Bond the sum of Ringgit (RM...) being equal to 5% of the value of the said part of the Works or such part thereof as may be demanded
- (d) If a payment is made to Government pursuant to clause (b), the Contractor shall ensure that further security in the form of an additional Design Guarantee Bond for an amount no less than the amount so paid to Government shall be issued to Government prior to or upon the date of such payment. If any of the issued Design Guarantee Bond were to expire prior to the validity period, a replacement Design Guarantee Bond shall be issued to Government on or prior to the date of expiry of the first mentioned Design Guarantee Bond in an amount not less than the amount of that Design Guarantee Bond.

23.0 EMPLOYMENT OF WORKMEN

23.1 Workmen

- (a) The Contractor shall employ, in the execution of this Contract, only Malaysian citizens as workmen.
- (b) If in any particular trade or skill required to complete the Works, the Contractor can show to the satisfaction of the S.O. that Malaysian citizens are not available, then the Contractor may employ non-Malaysian citizens subject to the approval of the Government.
- (c) The Contractor shall on the commencement of the Works furnish to the Jabatan Tenaga Kerja of the State in which this Contract is performed all particulars connected with this Contract and such returns as may be called for from time to time in respect of labour employed by him on for the execution of this Contract, in accordance with the requirements of the Employment Act 1955, Employment (Restriction) Act 1968, and Internal Security (Registration of Labour) Regulation 1960 or any subsequent modification or re-enactment thereof.
- (d) The Contractor shall maintain on the Site at all times during the progress of the Works an up to date register containing particulars of all workers employed by him.
- (e) The Contractor shall cause his sub-contractors (including 'labour only' sub-contractors) and Nominated Sub-Contractors to comply with the provisions of this clause.

23.2 Compliance with Employment Act 1955, etc.

In the employment of workmen for the execution of this Contract, the Contractor shall comply, and shall cause his sub-contractors (including "labour only" sub-contractors) and Nominated Sub-Contractors to comply with all the requirements of the Employment Act 1955, Employment (Restriction) Act 1968, Employee's Provident Fund Act 1951, the Industrial Relations Act 1967 and any other law relating to the employment of workmen, or any subsequent modification or re-enactment thereof. PROVIDED THAT the Contractor shall not be entitled to any claim for additional costs and payments whatsoever in respect of his compliance with this clause.

23.3 Days and Hours of Working

No work shall be done on:

- (a) the weekly day of rest;
- (b) any public holiday which is recognised in the state where this Contract is being carried out; or
- (c) between the hours of six in the evening and six in the following morning;

without the written permission of the S.O. PROVIDED THAT when such written application of the Contractor is approved by the S.O., the Contractor shall comply fully with all the requirements of the Employment Ordinance 1955 in regard thereto or any subsequent modification or re-enactment thereof and shall bear any costs for compliance therewith, and any extra costs incurred by the Government in connection with the supervision of the Works.

23.4 Wages Books and Time Sheets

- (a) The Contractor shall keep and shall cause his sub-contractors (including "labour only" sub-contractors) and Nominated Sub-Contractors to keep proper wages books and time sheets showing wages paid to and the time worked by all workmen employed by him and his sub-contractors as aforesaid in and for the performance of this Contract.
- (b) The Contractor shall produce such wages books and time sheets on demand for inspection by any persons duly authorised by the S.O.
- (c) The Contractor shall furnish to the S.O. or S.O.'s Representative such information relating to the wages and conditions of employment of such workmen as the S.O. may from time to time require.

23.5 Default in Payment of Wages

In the event of default in the payment of –

- (a) any money in respect of wages; and/or
- (b) payment in respect of Employees Provident Fund Contributions,

of any workmen employed by the Contractor or his sub-contractors (including "labour only" sub-contractors) and Nominated Sub-contractors in and for the performance of this Contract, which a claim has been filed with the Department of Labour, then the S.O. shall make payment to the Director General of Labour and/or Employees Provident Fund, as the case may be, out of any monies at any time due to the Contractor under this Contract and such payment shall be deemed to be a payment made to the Contractor by the Government under and by virtue of this Contract.

23.6 Discharge of Workmen

- (a) The Contractor shall employ in and about the execution of the Works only such persons as are of good character, careful, skilled and experienced in their respective vocations and trades.
- (b) The S.O. shall be at liberty to object to and require the Contractor to remove immediately from the Site any person employed by the Contractor in or about the execution of the Works who in the opinion of the S.O. misconducts himself or is incompetent or negligent in the proper performance of his duties. Such person shall not again be employed upon the Works without the prior written permission of the S.O.

- (c) Any person so removed from the Works shall be replaced without delay by a substitute approved by the S.O. PROVIDED THAT the Contractor shall not be entitled to any claim for any expense whatsoever incurred by him in respect of any direction given by the S.O. under this clause.

24.0 VARIATIONS

- 24.1** The S.O. may issue instructions requiring a Variation in a form of a Variation Order. No variation required by the S.O. shall vitiate this Contract. Upon the issuance of such Variation Order, the Contractor shall forthwith comply with the Variation Order issued by the S.O.
- 24.2** The term 'Variation' means a change in the Contract Document which necessitates the alteration or modification of the design, quality or quantity of the Works as described by or referred to therein and affects the Contract Sum, including:
- (a) the addition, omission or substitution of any work;
 - (b) the alteration of the kind or standard of any of the materials, goods to be used in the Works; or
 - (c) the removal from the Site of any work executed or materials or goods brought thereon by the Contractor for the purposes of the Works other than work, materials or goods which are not in accordance with this Contract.
- 24.3** Any variation made under this clause shall not relieve the Contractor from his obligations under clause 22.1(c).

25.0 VALUATION OF VARIATION

- 25.1** All variations instructed in writing by the S.O. in accordance with clause 24 hereof shall be measured and valued by the S.O. The valuation of Variations, unless previously or otherwise agreed, shall be made in accordance with the following rules:
- (a) the rates in the Bills of Quantities after adjustment if necessary as provided in clauses 26.6 and 26.7 hereof, shall determine the valuation of work of similar character and executed under similar conditions as work priced therein;
 - (b) the said rates, where work is not of similar character or executed under similar conditions as aforesaid, shall be the basis of rates for the same, so far as may be reasonable, failing which a fair valuation thereof shall be made by the S.O.;
 - (c) the rates in the Bills of Quantities shall determine the valuation of items omitted, PROVIDED THAT if the omission substantially vary the conditions under which any remaining items of work are carried out, the rates of such remaining items shall be valued under rule (b);
- 25.2** Where work cannot properly be measured or valued, the S.O. may allow daywork price as specified in Appendix. Unless otherwise provided in the Bills of Quantities, the daywork prices for the purpose of this Contract shall be taken to mean the actual net cost to the Contractor of his materials, plant and labour for the work concerned. The Contractor shall be paid daywork prices, plus fifteen percent (15%), which shall include for the cost of all ordinary plant, tools, scaffolding, supervision and profit. PROVIDED ALWAYS that as a condition precedent to any right to any payment the Contractor shall produce vouchers, receipts and wage books specifying the time for labour and plant employed and materials used to the S.O. not exceeding seven (7) days after the work shall have been done.

- 25.3 The amount of variations shall be certified by the S.O. and added to or deducted from the Contract Sum as the case may be and the amount shall be adjusted accordingly.

26.0 BILL OF QUANTITIES

Basis of Contract Sum

- 26.1 The quality and quantity of the Works as set out in the Bills of Quantities shall be the basis of the Contract Sum. Any error in description or quantity or omission of Works from the Bills of Quantities shall not vitiate this Contract but shall be rectified and the amount in respect of such rectification shall be added to or deducted from the Contract Sum as the case may be.
- 26.2 The Government reserves the right to adjust the prices and rates in the Bills of Quantities submitted by the Contractor to ensure their reasonableness before acceptance of tender and the decision of the Government shall be final.
- 26.3 Any adjustment of the prices and/or rates in the Bills of Quantities required under clause 26. 2 and any arithmetical error or omission in the prices or rates and/or calculations of the Contractor in the Bills of Quantities shall before the signing of this Contract be so rectified and adjusted that when correctly calculated, the total amount in the Summary of the Bills of Quantities shall represent the same amount as the tender amount in the Form of Tender. The tender amount shown in the Form of Tender shall remain unaltered but the nett aggregate amount of the difference between the total adjusted amount in the Summary of the Bills of Quantities and the tender amount shown in the Form of Tender, whether a nett deduction or nett addition, shall be calculated as a percentage of the total adjusted amount shown in the Summary of the Bills of Quantities and all prices and/or rates throughout the Bills of Quantities shall be subject to such percentage discounts or premiums as the case may be. Provided always that Provisional and Prime Cost Sums shall be excluded from such calculation and shall not be subject to such percentage discount or premium.

Standard Method of Measurement

- 26.4 The Bills of Quantities, unless otherwise expressly stated in respect of any specified item or items, shall be deemed to have been prepared in accordance with the principles of the Standard Method of Measurement of Building Works as published by the Institution of Surveyors (Malaysia) or Civil Engineering Method of Measurement published by Institution of Civil Engineers (London) or Method of Measurement as set out in Bill of Quantities.

Provisional Quantities

- 26.5 Unless where the quantities of the Works or any part thereof are stated as 'provisional' in the Bills of Quantities such quantities are firm and the Works shall not be subject to re-measurement unless the Bills of Quantities are proven to be erroneous and shall be dealt with under clause 26.1.
- 26.6 Where the quantities of Works are stated as "provisional" in the Bills of Quantities, such quantities are the estimated quantities which shall not be taken as the actual and correct quantities of Works to be executed by the Contractor in the fulfilment of his obligations under the Contract. The amount to be paid to the Contractor in respect of such Works upon completion of this Contract shall be ascertained by remeasurement of the work as it is actually executed and valued in accordance with clause 25.1 hereof, after adjustment if necessary as provided in clause 25.3 hereof.
- 26.7 For the purpose of clause 26.6, the amount to be paid to the Contractor shall be set off against the amount for such work in the Bills of Quantities, and the balance shall be added to or deducted from the Contract Sum as the case may be.

27.0 MEASUREMENT OF WORKS

- 27.1** The S.O. shall, when he requires any part or parts of the Works to be measured or remeasured for the purposes of clauses of Variation under clause 24 and provisional quantities under clause 26.5, give reasonable notice to the Contractor who shall attend or send a qualified agent to assist the S.O. or S.O.'s Representative in making such measurement and shall furnish all particulars required by the S.O.. Should the Contractor fail to attend or neglect or omit to send such agent, then the measurement made by the S.O. or approved by him shall be taken to be the correct measurement of the work.
- 27.2** Upon the completion of the measurement pursuant to clause 27.1, the S.O. shall supply the Contractor with such measurement in respect of the said parts.

28.0 PAYMENT TO CONTRACTOR AND INTERIM CERTIFICATES

- 28.1** When the Contractor has executed work including delivery to or adjacent to the Works of any unfixed materials or goods intended for incorporation into the Works in accordance with the terms of this Contract and their total value of work thereof has reached the sum referred to in Appendix, the S.O. shall at that time make the first valuation of the same.
- 28.2** Thereafter, once (or more often at the discretion of the S.O.) during the course of each succeeding month the S.O. shall make a valuation of the works properly executed and of unfixed materials and goods delivered to or adjacent to the Site, provided the total value of work properly executed and the value of unfixed materials and goods as specified in clause 28.4 hereof, delivered to the Site intended for incorporation into the Works in each subsequent valuation shall not be less than the sum referred to in Appendix.
- 28.3** Within fourteen (14) days from the date of any such valuation being made and subject to the provision mentioned in clause 28.1, the S.O. shall issue an Interim Certificate stating the amount due to the Contractor from the Government. PROVIDED THAT the signing of this Contract shall not be a condition precedent for the issue of the first Interim Certificate (and no other) so long as the Contractor has returned the Letter of Acceptance of Tender duly signed and has deposited with the S.O. or the Government the relevant insurance policies under clauses 15 and 18 hereof.
- 28.4** The amount stated as due in an Interim Certificate shall, subject to any agreement between the Parties as to payment by stages, be the estimated total value of the work properly executed and up to ninety percent (90%) of the value of the unfixed materials and goods delivered to or adjacent to the Site intended for incorporation into the permanent Works up to and including the date the valuation was made, less any payment (including advance payment) previously made paid under this Contract. PROVIDED THAT such certificate shall only include the value of the said unfixed materials and goods as and from such time as they are reasonably and properly and not prematurely delivered to or adjacent to the Site and adequately protected against weather, damage or deterioration.
- 28.5** This clause shall not apply to any unfixed materials and goods which are supplied and delivered by Nominated Suppliers for which payment shall be made for the full value of the unfixed materials and goods.
- 28.6** Within a number of days as stated in Appendix (or if none stated then within thirty (30) days of the issue of any such Interim Certificate), the Government shall make a payment to the Contractor as follows:
- (a) where the Performance Bond is in the form of a Banker's, Insurance or Finance Company Guarantee, payment shall be made on the amount certified as due to the Contractor in the said Interim Certificate; or
 - (b) where the Performance Bond is in the form of a Performance Guarantee Sum, payment of ninety percent (90%) on the amount certified as due to the Contractor shall be made

with the remaining ten percent (10%) being retained by the Government as a Performance Guarantee Sum. PROVIDED THAT when the sum retained is equivalent to five percent (5%) of the Contract Sum then in any subsequent Certificate, payment shall be made on the full amount certified as due to the Contractor.

29.0 ADJUSTMENT OF CONTRACT SUM

The amount to be added to or deducted from the Contract Sum in respect of expense or loss due to fees and charges in relation to the supply of water and electricity and permanent connections to water, electricity, telephone and sewerage mains under clause 6.2, variations under clause 24, rectification of errors in Bill of Quantities under clause 26.3, fluctuation of price under clause 30, payment of P.C. Sums and Provisional Sums under clause 34, opening up work for inspection and testing of materials or goods and executed work under clause 35.2, loss and expense under clause 44 and costs of disposal of fossils, *etc.* under clause 65 hereof, shall be certified by the S.O.

30.0 FLUCTUATION OF PRICE

In accordance with the Special Provisions to the Conditions of Contract for Fluctuation of Price as contained in Appendix (if applicable), the amount payable by the Government to the Contractor upon the issue by the S.O. of an Interim Certificate under clause 28 hereof shall be increased or decreased accordingly. The net total of any such increases or decreases shall be given effect to in determining the Contract Sum.

31.0 FINAL ACCOUNT AND PAYMENT CERTIFICATE

- 31.1** As soon as is practicable but not later than three (3) months after the issuance of the Certificate of Practical Completion, the Contractor shall submit full particulars complete with receipts, vouchers records that would substantiate the Contractor's claim under clause 44 together with any documents, supporting vouchers and any explanation and calculations including documents relating to the accounts of Nominated Sub-Contractors or Nominated Suppliers, which may be necessary to enable the Final Account to be prepared by the S.O. PROVIDED ALWAYS the Contractor had given the notice of claim in writing within the stipulated time or times in the said provisions.
- 31.2** If the Contractor fails to submit full particulars of all claims within the stipulated period, the S.O. shall forthwith make the assessment based on the available documents submitted by the Contractor for the purpose of the Final Account. The Government shall be discharged from all liabilities in connection with the claims.
- 31.3** Within three (3) months after the expiry of the Defects Liability Period for the whole of the Works or three (3) months after the issue of the Certificate of Completion of Making Good Defects under clause 48 hereof, whichever is the later, the S.O. shall issue the Final Certificate.
- 31.4** The Final Certificate shall be supported by documents, and full particulars complete with receipts, vouchers records showing the S.O.'s final valuation of Works and any amount determined in clause 31.1 in accordance with the terms of this Contract. After setting out or allowing for all payments or other expenditure of the Government or any permitted deductions made by the Government or the S.O. on its behalf, the Final Certificate shall state any final balance due from the Government to the Contractor or from the Contractor to the Government, as the case may be, which shall thereupon become the debt payable. Such certificate shall also take account of any outstanding permitted deductions not yet made by the Government under the terms of this Contract whether by way of liquidated damages or otherwise.

- 31.5** No final payment due to the Contractor under the Final Certificate, shall be made unless and until the Contractor shall have satisfied the S.O. by means of a Statutory Declaration made by or on behalf of the Contractor to the effect that the workmen who have been employed by the Contractor on the Works including workmen employed by sub-contractors, whether nominated or otherwise (including "labour only" sub-contractors) have received all wages due to them in connection with such employment, and that all dues or contributions under the Employment Act 1955, the Employee's Social Security Act 1969, the Employee's Provident Fund Act 1965 and any other laws relevant to the employment of workmen, have been paid.

32.0 EFFECT OF S.O.'S CERTIFICATES

No certificate of the S.O. under any provision of this Contract shall be considered as conclusive evidence as to the sufficiency of any work, materials or goods to which it relates, nor shall it relieve the Contractor from his liability to amend and make good all defects, imperfections, shrinkages, or any other faults whatsoever as provided by this Contract. In any case, no certificate of the S.O. shall be final and binding in any dispute between the Government and the Contractor if the dispute is brought whether before an arbitrator or in the Courts.

33.0 DEDUCTION FROM MONEY DUE TO CONTRACTOR

The Government or the S.O. on its behalf shall be entitled to deduct any money owing from the Contractor to the Government under this Contract from any sum which may become due or is payable by the Government to the Contractor under this Contract or any other contracts to which the Government and Contractor are Parties thereto. The S.O. in issuing any certificate under clauses 28 and 31, shall have regard to any such sum so chargeable against the Contractor, provided always that this provision shall not affect any other remedy to which the Government may be entitled for the recovery of such sums.

34.0 PRIME COST / PROVISIONAL SUMS

- 34.1** In respect of any and every Prime Cost or P.C. Sum provided in the Contract, the amount due to any Contractor shall be determined by deducting the said Prime Cost or P.C. Sum and the relevant profit and/or attendance charges from the Contract Sum and substituting for the same with the actual amount due to relevant Nominated Sub- Contractor or Nominated Supplier as valued in accordance with the relevant sub-contract and the sums due to any Contractor by way of profit and/or attendance charges at the rates or prices stipulated in the Contract Documents (if any).
- 34.2** The Provisional Sum may be expended at such times and in such amounts as the S.O. may direct. Such sum if not used either wholly or in part shall be deducted from the Contract Sum. The value of works which are executed by the Contractor in respect of Provisional Sums shall be ascertained in accordance with clause 25 hereof. The said value of such work executed by the Contractor shall be set off against all such Provisional Sums and the balance shall be added to or deducted from the Contract Sum as the case may be.
- 34.3** Any work to be executed, or materials or goods to be supplied for which Provisional Sums are provided in the Bills of Quantities may, if the S.O. so decides, be treated as P.C. Sum items and shall be dealt with in accordance with clause 34.1.
- 34.4** Where the Contractor in the ordinary course of his business directly carries out works for which P.C. Sums are provided in the Bills of Quantities and where such works are set out in Appendix hereto and the S.O. is prepared to accept tenders from the Contractor for such works the Contractor shall be permitted to tender for the same or any of them without prejudice to Government's right to reject the lowest or any tender. If the tender of the Contractor for any work

included in the P.C. Sum is accepted, such tender shall be held to include the profit and attendance charges, and the Contractor shall not be entitled to the profit and attendance charges as contained in the Bills of Quantities notwithstanding any provision to the contrary under clause 34.1.

35.0 MATERIALS, GOODS AND WORKMANSHIP

- 35.1** All materials, goods and workmanship shall be of the respective kinds and standards described in the Specification and of good quality and in accordance with the standard of the workmanship in the industry. The Contractor shall upon the request of the S.O. furnish him with the relevant certificates and/or vouchers to prove that the materials and goods comply with the Specification.
- 35.2** The Contractor shall, entirely at his own cost, provide samples of materials and goods for testing purposes. The Contractor shall, when instructed by the S.O. to open up for inspection any work covered up, or arrange for or carry out any test of any materials or goods (whether or not already incorporated in the Works) or of any executed work which the S.O. may in writing require and the cost of such opening up or testing (together with the cost of making good in consequence thereof) shall be added to the Contract Sum unless provided for in the Bills of Quantities by way of Provisional Sums or otherwise or unless the inspection or test shows that the work, materials or goods are not in accordance with this Contract.
- 35.3** The Contractor shall pay all duties and taxes which may be imposed by law, such as customs duties and sales tax, on all materials, goods and equipment, whether purchased or imported in the Contractor's name or his agent, which are incorporated in the Works or used directly in the construction, completion or maintenance of the Works.
- 35.4** Except where otherwise specified, the Contractor shall pay all tonnage and other royalties, rent fees and other payments or compensation (if any) for getting stone, sand, gravel, clay or other materials required for the Works.

36.0 INSPECTION AND TESTING OF MATERIALS, GOODS AND EQUIPMENT

- 36.1** Further to his the Contractor's obligations under clause 10, the Contractor shall submit to the S.O. for his approval, proposals for inspecting the design and setting out of the Works and testing the materials and workmanship to ensure that the Contractor's obligations under the Contract are fulfilled.
- 36.2** The Contractor shall carry out the inspection and tests approved under clause 36.5 or elsewhere in the Contract and such further tests as the S.O. may reasonably require, including to open up for inspection any work covered up or to carry out any test of any materials or goods (whether or not already incorporated in the Works or any executed Works).
- 36.3** The S.O. may issue instructions to the Contractor to remove from the Site or rectify any work, goods which are not in accordance with this Contract at his own cost.
- 36.4** The Contractor shall, as may be required by the S.O. from time to time, provide such assistance, instruments, machines, labour and materials as are normally required for the purpose of examining, measuring and testing of any work, as well as and the quality, weight or quantity of the materials used, and shall supply samples of materials before incorporation in the Works for testing.
- 36.5** Unless the Contract otherwise provides, the cost of making any test shall be borne by the Contractor if such test is:
 - (a) proposed by the Contractor; or

(b) clearly intended by or provided for in the Contract.

- 36.6** Notwithstanding anything in clause 36.5, if the Contractor carries out any further test as required by the S.O. pursuant to clause 36.2 and the result of such test shows the workmanship or materials is not in accordance with the provisions of the Contract, then the cost of such test shall be borne by the Contractor. But if the result of such test shows the workmanship or materials comply with the provisions of the Contract, then the cost of such test shall be borne by the Government.

37.0 CONSTRUCTIONAL PLANT, EQUIPMENT, VEHICLES AND MACHINERIES

- 37.1** The Contractor shall pay all port dues including (but not by way of limitation) wharfage dues, pilotage fees, anchorage, berthage and mooring fees, quarantine dues, loading portage and overtime fees for constructional plant, equipment, vehicles and machineries for use directly in connection with the construction, completion of the works brought into and despatched from Malaysia by the Contractor (or in his name by agents).
- 37.2** The Contractor shall furnish to the S.O. all such shipping documents, invoices and other documentation as may be required by the Customs Authorities in connection with the importation of goods, materials, constructional plant, equipment, vehicles and machineries.
- 37.3** In the case of constructional plant, equipment, vehicles, and machineries imported on the Contractor's behalf by importing agents and the like both the shipping documents and the invoices of the original suppliers or manufacturers must indicate clearly that the consignment is for the Contractor's account.
- 37.4** The procedure in respect of the requirements of the foregoing shall be determined by the Customs Authorities. The Contractor shall make written application to the S.O. and shall provide the relevant documentation of all constructional plant, equipment, vehicles and machineries to be imported into Malaysia not less than forty-five (45) days before the arrival of the said constructional plant, equipment, vehicles and machineries.
- 37.5** The Contractor shall pay all charges and other expenses in connection with the landing and shipment of all constructional plant materials and other things of whatsoever nature brought into or despatched from Malaysia for the purpose of the Contract.
- 37.6** The Contractor shall make his own arrangement in obtaining clearance through the Customs of constructional plant, equipment, vehicles and machineries. However, if required, the S.O.'s assistance may be sought.
- 37.7** Under this Contract, the Contractor shall be required to furnish all lists of constructional plant, equipment, vehicles and machineries to the S.O. whether the constructional plant, equipment, vehicles and machineries are hired or acquired.

38.0 POSSESSION OF SITE

- 38.1** No work under this Contract shall commence unless and until the Performance Bond stipulated under clause 13 and such insurance policy as specified under clauses 15 and 18 shall have been deposited with the Government, PROVIDED THAT for the purposes of this clause only (but for no other), if the Contractor shall produce to the Government the cover note of the said insurance policy and the receipt of premium paid, it shall be a sufficient discharge of his obligations under this clause.
- 38.2** Unless the Contract Documents shall otherwise provide, possession of the Site as complete as may reasonably be possible but not so as to constitute a tenancy, shall be given on or before the "Date for Possession" stated in the Letter of Acceptance to the Contractor who shall thereupon

and forthwith commence the Works (but subject to clause 38.1) and regularly and diligently proceed with and complete the Works on or before the Date for Completion as stated in Appendix.

- 38.3** The "Date for Completion" of the Works as referred to under clause 39 hereof shall be calculated from the said "Date for Possession". PROVIDED ALWAYS that the possession of Site may be given in section or in parts and any other restrictions upon possession of the Site shall be stated in the Appendix to these Conditions or in the Contract Documents.
- 38.4** In the event of any delay in giving possession of the Site from the "Date for Possession" as stated in Letter of Acceptance or delay in giving any section or part of the Site as provided in clause 38.3, the S.O. may issue instructions in regard to the revision of the "Date for Possession" and the "Date for Completion" shall be appropriately revised under clause 43.1(h) hereof, but the Contractor shall not be entitled to claim for any loss or damage caused by such delay in giving possession of the Site, nor shall he be entitled to terminate this Contract.
- 38.5** In the event that the giving of the possession of the whole Site is delayed beyond ninety (90) days of the "Date for Possession" stated in the Letter of Acceptance, the S.O. shall give written notice to the Contractor of the causes of such delay. Upon the receipt of the said written notice issued by the S.O., the Contractor may, inform the S.O. in writing of its decision within fourteen (14) days of receipt of the said notice either to:
- (a) agree to proceed with the Works when the Site is subsequently made available, in which case clause 38.4 shall apply in particular, the Contractor shall not be entitled to claim for any loss or damage caused by such delay in giving possession of the Site, or
 - (b) terminate this Contract, without prejudice to any other rights or remedies that the Government and the Contractor may have as a result of the termination.
- 38.6** In the event that the giving of possession of any section or part of the Site (whether provided for in clause 38.3 or otherwise) is delayed beyond ninety (90) days from the Date of Possession stated in the Appendix or the date the Contractor is scheduled to commence work on that section or part of the Works in accordance with the approved programme of Works as referred to in clause 12 hereof as the case may be, then the S.O. shall give written notice to the Contractor of the causes of such delay. Upon receipt of the said written notice, the Contractor may inform the S.O. in writing, within fourteen (14) days of receipt of the said notice of its decision either to:
- (a) agree to proceed with the Works when the section or part of the Site is subsequently made available, in which case sub-clause 38.5(a) above shall apply and in particular, the Contractor shall not be entitled to claim for any loss or damage caused by such delay as aforesaid; or
 - (b) request for S.O.'s instruction to omit the relevant section or part of the Works from the Contract. If the S.O. agrees to such request then the relevant section or part of the Works shall be duly omitted and deemed to be a variation to the Contract. Such variation shall not vitiate this Contract. If the S.O. does not agree to such request as aforesaid, then the Contractor shall be entitled to claim for any loss and/or expenses caused by and in respect of such delay beyond ninety (90) days as aforesaid.

39.0 COMPLETION OF WORKS

- 39.1** Subject to clauses 38.3 and 41, the Contractor shall complete the whole of the Works on or before the "Date for Completion" as stated in the Appendix or such extended time as may be allowed under clause 43 hereof.
- 39.2** If the Contractor considers that the works have achieved practical completion, the Contractor shall notify the S.O. in writing to that effect.

39.3 Within 14 days of receipt of such notice, the S.O. shall carry out testing/ inspection of the Works. Pursuant to such inspection/testing, the S.O. shall –

- (a) issue the Certificate of Practical Completion to the Contractor if in his opinion the whole Works have reached Practical Completion and have satisfactorily passed any inspection/test carried out by the S.O. The date of such completion shall be certified by the S.O. and such date shall be the date of the commencement of the Defects Liability Period as provided in clause 48 hereof; or
- (b) give instruction to the Contractor specifying all defective works which are required to be completed by the Contractor before the issuance of the Certificate of Practical Completion.

39.4 If the S.O. has given instruction pursuant to clause 39.3(b), no Certificate of Practical Completion shall be issued to the Contractor until the Contractor has effectively carried out the remedial work within reasonable period to the satisfaction of the S.O.

39.5 The Works shall not be regarded as practically complete unless it has fulfilled the following:

- (a) the Works have been completed in accordance with the terms and conditions of this Contract;
- (b) the Government can have full, proper and beneficial use of the Works for their intended purpose, notwithstanding that there may be works of a very minor defects PROVIDED THAT such works do not prevent or diminish the full, proper and beneficial use as aforesaid;
- (c) the Works have passed any commissioning tests required in the Contract Document;
- (d) the Works shall be made available to the Government in a condition fit for occupation; and
- (e) all the essential services, including access roads, landscape, car parks, drains, sanitary, water and electricity installation, fire hydrant, sewerage and refuse disposal equipment and fire lifts specified in this Contract.

39.6 When the whole of the Works have reached practical completion to the satisfaction of the S.O., the date of such completion shall be certified by him and such date shall be the date of the commencement of the Defects Liability Period as provided in clause 48 hereof.

40.0 DAMAGES FOR NON-COMPLETION

40.1 If the Contractor fails to complete the Works by the Date for Completion or within any extended time granted pursuant to clause 43, the S.O. shall forthwith issue a Certificate of Non-Completion to the Contractor.

40.2 Without prejudice to the Government's right to terminate this Contract, when the S.O. issues the Certificate of Non-Completion, the Government shall be entitled to recover from the Contractor, Liquidated and Ascertained Damages calculated at the rate stated in Appendix 1 from the period of the issuance of the Certificate of Non-Completion to the date of issuance of Certificate of Practical Completion or the date of termination of this Contract. The S.O. may deduct such Liquidated and Ascertained Damages from any money due or to become due to the Contractor, failing which such damages shall be recovered from the Performance Bond or as a debt due from the Contractor. The S.O. shall inform the Contractor in writing of such deduction.

40.3 The Liquidated and Ascertained Damages stated in Appendix 1 shall be deemed to be a reasonable amount of loss which the Government will suffer in the event that the Contractor is in

breach of this clause. The Contractor by entering into this Contract agrees to pay to the Government the said amount(s) if the same become due without the need of the Government to prove his actual damage or loss.

- 40.4** The payment or deduction of such Liquidated and Ascertained Damages shall not relieve the Contractor from his obligation to complete the Works or from any of its obligations and liabilities under the Contract.

41.0 SECTIONAL COMPLETION

- 41.1** Where different completion dates for different sections or parts of the Works are stated and identified in Appendix or elsewhere in the Contract Documents and different and separate Liquidated and Ascertained Damages are provided for each section or part of the Works, the provisions of this Contract in regard to:

- (a) Certificate of Practical Completion;
- (b) Delay and Extension of Time;
- (c) Liquidated Ascertained Damages; and
- (d) Defects Liability Period,

but not Insurance of the Works under clause 18, Performance Bond under clause 13 and final payment on the Final Certificate under clause 31 hereof shall, in the absence of any express provision to the contrary elsewhere in the Contract Documents apply as if each such section or part was the subject of a separate and distinct contract between the Government and the Contractor.

- 41.2** For the avoidance of doubt, nothing contained in clause 41.1 shall entitle the Contractor to the release of the whole or any part of the Performance Bond or Performance Guarantee Sum deposited by him. The Performance Bond or Performance Guarantee Sum shall be released or be refunded only upon the issue of the Certificate of Making Good Defects of the whole of the Works or in respect of the last section of the Works, as the case may be.

42.0 PARTIAL OCCUPATION/TAKING OVER BY GOVERNMENT

- 42.1** If at any time before the whole of the Works have reached practical completion pursuant to clause 39, the Government with the consent of the Contractor (which consent shall not be unreasonably withheld) shall take possession of and occupy any part or parts of the same (any such part being hereinafter in this Clause referred to as 'the relevant part'), then notwithstanding anything expressed or implied elsewhere in this Contract.

Certificate of Partial Occupation

- (a) within seven (7) days from the date on which the Government shall have taken possession of the relevant part, the S.O. shall issue a Certificate of Partial Occupation in respect of the relevant part stating the estimated value of the said relevant part, and for all the purposes of this Clause (but for no other) the value so stated shall be deemed to be the total value of the said relevant part;

Defects Liability Period

- (b) for the purposes of clauses 39 and 48 hereof, the relevant part shall be deemed to have reached practical completion and the Defects Liability Period in respect of the relevant

part shall be deemed to have commenced on the date on which the Government shall have taken possession and occupied thereof;

Certificate of Making Good Defects

- (c) at the end of the Defects Liability Period of the relevant part and if in the opinion of the S.O. any defect, imperfection, shrinkage or any other fault whatsoever in respect of the relevant part which he may have required to be made good under clause 48.1, shall have been made good by the Contractor, the S.O. shall issue a certificate to that effect;

Reduction of Liquidated Ascertained Damages

- (d) if, before the time of completion of the whole of the Works or, if applicable any section, a Certificate of Practical Completion has been issued for any part of the Works or of a section, the rate of the liquidated and ascertained damages for delay in completion of the remainder of the Works or of that section shall, for any period of delay after the date stated in such Certificate of Practical Completion, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or section, as applicable;

Insurance of the Works

- (e) notwithstanding the partial occupation by the Government of the relevant part the Contractor shall insure and keep insured the Works in the manner as stipulated under clause 18 and the Contractor shall give notice to the insurer of such partial occupation; and

Performance Bond Not Affected

- (f) it is expressly agreed that nothing contained in the preceding paragraphs shall entitle the Contractor to the release of the Performance Bond or any part thereof deposited by him under clause 13 hereof, the intention being that the said Performance Bond or any part thereof shall be released or refunded only upon the completion of making good all defects, imperfections, shrinkages or other faults which may appear during the Defects Liability Period and upon the giving of the Certificate of Completion of Making Good Defects for the whole of the Works under clause 48 hereof.

43.0 DELAY AND EXTENSION OF TIME

- 43.1** Upon it becoming reasonably apparent that the progress of the Works is delayed, the Contractor shall forthwith give written notice to the S.O as to the causes of delay and relevant information with supporting documents enabling the said officer to form an opinion as to the cause and calculation of the length of delay. If in the opinion of the S.O the completion of the Works is likely to be delayed or has been delayed beyond the Date for Completion stated in Appendix 1 or beyond any extended Date for Completion previously fixed under this Clause due to any or more of the following events:

- (a) force majeure as provided under clause 58;
- (b) exceptionally inclement weather;
- (c) suspension of Works under clause 50;
- (d) directions given by the S.O., consequential upon disputes with neighbouring owners provided the same is not due to any act, negligence or default of the Contractor or any sub-contractor, nominated or otherwise;

- (e) S.O.'s instructions issued under clause 5 hereof, PROVIDED THAT such instructions are not issued due to any act, negligence, default or breach of this Contract by the Contractor or any sub-contractor, nominated or otherwise;
- (f) the Contractor not having received in due time instructions in regard to the nomination of sub-contractors and/or suppliers provided in this Contract, necessary instructions, drawings or levels for the execution of the Works from the S.O. due to any negligence or default of the S.O. PROVIDED THAT the Contractor shall have specifically applied in writing on a date which having regard to the Date for Completion stated in Appendix or to any extension of time then fixed under this clause, was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same;
- (g) delay in giving possession of the Site as provided under clause 38.4 hereof other than claim in effecting insurance and Performance Bond;
- (h) delay on the part of artists, tradesmen or others engaged by the Government in executing work not forming part of this Contract;
- (i) the Contractor's inability for reason beyond his control and which he could not reasonably have foreseen at the date of closing of tender of this Contract to secure such goods, materials and/or services as are essential to the proper carrying out of the Works; or
- (j) delay on the part of the Nominated Sub-contractors and/or Nominated Suppliers to perform their works, due to reasons as stated above in sub-clauses (a) to (i),

then the S.O. may if he is of the opinion that the extension of time should be granted, so soon as he is able to estimate the length of the delay beyond the date or time aforesaid issue a Certificate of Delay and Extension of Time giving a fair reasonable extension of time for completion of the Works.

PROVIDED THAT all such delays are not due to any act, negligence, default or breach of contract by the Nominated Sub-contractor and/or Nominated Supplier and/or the Contractor, or any of the servants or agents of such Nominated Sub-contractor or Nominated Supplier or the Contractor.

PROVIDED ALWAYS that the Contractor has taken all reasonable steps to avoid or reduce such delay and shall do all that may reasonably be required to the satisfaction of the S.O. to proceed with the Works.

PROVIDED FURTHER that the Contractor shall not be entitled to any extension of time where the instructions or acts of the S.O. are necessitated by or intended to remedy any default of or breach of contract by the Contractor.

44.0 CLAIMS FOR LOSS AND EXPENSE

- 44.1** If at any time during the regular progress of the Works or any part thereof has been materially affected by reason of delays as stated under clause 43.1 (c), (d), (e), (f) and (h), and the Contractor has incurred direct loss and/or expense beyond that reasonably contemplated and for which the Contractor would not be reimbursed by a payment made under any other provision in this Contract, then the Contractor shall within thirty (30) days of the occurrence of such event or circumstances or instructions give notice in writing to the S.O. of his intention to claim for such

direct loss or expense together with an estimate of the amount of such loss and/or expense, subject always to clause 44.2 hereof.

44.2 As soon as is practicable but not later than ninety (90) days after practical completion of the Works, the Contractor shall submit full particulars of all claims for direct loss or expense under clause 44.1 together with all supporting documents, vouchers, explanations and calculations which may be necessary to enable the direct loss or expense to be ascertained by the S.O.. The amount of such direct loss or expense ascertained by the S.O. shall be added to the Contract Sum.

44.3 If the Contractor fails to comply with clauses 44.1 and 44.2, he shall not be entitled to such claim and the Government shall be discharged from all liability in connection with the claim.

45.0 INVESTIGATION BY THE GOVERNMENT AND OTHER PERSONS IN CASE OF ACCIDENT, FAILURE OR OTHER EVENT

Where the Government, its employee or any person or body appointed or authorised by it carries out any investigation in relation to any accident, failure or other event which has occurred to, in or in connection with the Works or any part thereof for the purpose of determining the cause or reason for the said accident, failure or event, the Contractor shall render all such necessary assistance and facilities as may be required by the Government, its employee or such person or body, including the giving of access to all specifications, designs, records and other available information relating to the Works.

46.0 ACCESS FOR WORKS, ETC.

46.1 Access for S.O.

- (a) The S.O. and any person authorised by the S.O. shall at all times have access to the Works and to the factories, workshops or other places of the Contractor or of any sub-contractor or supplier where any equipment, materials, goods or work are being manufactured, fabricated, assembled, prepared or stored for the Contract.
- (b) Where any such equipment, materials, goods or work are being manufactured, fabricated, assembled, prepared or stored in the factories, workshops or other places of a sub-contractor or supplier, the Contractor shall by a term in the sub-contract secure a similar right of access to those factories, workshops or other places for the S.O. and any person authorised by the S.O., and shall take reasonable steps required of him by the S.O. to enforce or assist in enforcing such right.
- (c) Any person so removed from the Works shall be replaced without delay by a substitute approved by the S.O.; PROVIDED THAT the Contractor shall not be entitled to any claim for any expense whatsoever incurred by him in respect of any direction given by the S.O. under this Clause.

46.2 Access for Other Contractors and Workmen

The Contractor shall in accordance with the requirements of the S.O. afford all reasonable access and facilities to any other person engaged by the Government and their workmen and of any other constituted authorities for the purposes of executing any work on or near the Site.

47.0 SUB-CONTRACT OR ASSIGNMENT

- 47.1** The Contractor shall not without the prior written consent of the S.O. (which consent shall not be unreasonably delayed or withheld) sub- contract the design for any portion of the Works under clause 22 of this Contract. Where the S.O. consents to any sub-contract under this clause, such consent shall not in any way absolve the obligations of the Contractor under clause 10.
- 47.2** The Contractor shall not sub- contract the whole or any substantial part of the Works without the prior written consent of the S.O. (which consent shall not be unreasonably delayed or withheld). Any such consent, if given, shall not relieve the Contractor from any liability or obligation under this Contract and he shall be responsible for the due observance by such sub-contractors, of all the terms, stipulations and conditions under this Contract.
- 47.3** Notwithstanding any sub-contract made pursuant to clauses 47.1 and 47.2, the Contractor shall be fully responsible for the acts, defaults or neglects of any sub-contractor, including 'labour only' sub-contractors, his agents, servants or workmen as if they were the acts, defaults or neglects of the Contractor, his agents, servants or workmen; PROVIDED THAT the provision of labour on a piecework basis shall not be deemed to be a sub-contract under this clause.
- 47.4** It shall be a condition in any sub-contract which has been consented to by the Government that upon termination of the Contractor's employment under the Contract, the employment of the sub-contractor under the sub-contract shall terminate immediately. No claim whatsoever shall be made by the Contractor and/or sub-contractor against the Government for any work done or materials or goods supplied.
- 47.5** If the Contractor sub-contracts the Works, in whole or in part, to any person without getting prior written consent of the S.O. as provided under this clause, the S.O. shall have the right to instruct the Contractor to forthwith terminate such sub-contract and the Contractor shall be liable for all costs and expense relating to such termination.
- 47.6** The Contractor shall not assign the Contract or any part thereof, or any benefit or interest therein or thereunder otherwise than by way of assignment in favour of the Contractor's banker or any financial institution or Corporation of any monies due or to become due under this Contract without prior written consent of the S.O.

48.0 DEFECTS AFTER COMPLETION

48.1 Completion of Outstanding Work and Remedying Defects

- (a) At any time during the Defects Liability Period as stated in Appendix hereto (or if none stated the period is twelve (12) months from the date of practical completion of the Works), any defect, imperfection, shrinkage or any other fault whatsoever which may appear and which are due to materials or goods or workmanship not in accordance with this Contract, the S.O. shall issue written instruction to the Contractor to make good such defects, imperfections, shrinkages or any other fault whatsoever at the Contractor's own cost. The Contractor shall complete all such works with due expedition or within such time as may be specified by the S.O.
- (b) Without prejudice to sub-clause (a), any defect, imperfection, shrinkage or any other fault whatsoever which may appear during the Defects Liability Period to be made good by the Contractor, shall be specified by the S.O. in the Schedule of Defects which he shall deliver to the Contractor not later than fourteen (14) days after the expiration of the Defects Liability Period. The defects, imperfections, shrinkages or any other fault whatsoever specified in the Schedule of Defects shall be made good by the Contractor at his own costs and to be completed within a reasonable time but in any case not later than three (3) months after the receipt of the said Schedule. PROVIDED THAT the S.O.

shall not be allowed to issue any further instruction requiring the Contractor to make good of any defect, imperfection, shrinkage or any other fault whatsoever after the issuance of the said Schedule of Defects or after fourteen (14) days from the expiration of the said Defects Liability Period, whichever is the later.

48.2 Default in Remedying Defects

If the Contractor shall fail to comply with either clause 48.1(a) and/or 48.1(b) within the time so specified, the materials or works so affected may be made good in such manner as the S.O. may think fit, in which case the costs incurred including On-Cost Charges (calculated by applying the Percentage of On-Cost Charges stated in Appendix to the costs incurred), shall be deducted from any money due or to become due, to the Contractor under this Contract and failing which such costs shall be recovered from the Performance Bond or as a debt due from the Contractor.

48.3 Diminution in Value of Works

If any defect, imperfection, shrinkage or any other fault whatsoever is such that, in the opinion of the S.O., it shall be impracticable or inconvenient to the Government to have the Contractor to remedy the same, the S.O. shall ascertain the diminution in the value of the Works due to the existence of such defects, imperfections, shrinkages or any other fault whatsoever. The amount of such diminution shall be recoverable by the Government from the Contractor as a debt due under the Contract and failing which such diminution shall be recovered from the Performance Bond.

48.4 Certificate of Completion of Making Good Defects

When in the opinion of the S.O. the Contractor has made good the defects, imperfections, shrinkages or any other fault whatsoever which he is required to make good under clauses 48.1(a) or (b), or both, the S.O. shall issue a certificate to that effect, and the date specified in such certificate shall be the date on which the Contractor has completed making good such defects, imperfections, shrinkages or any other fault whatsoever. The said Certificate shall be referred to as the "Certificate of Completion of Making Good Defects".

49.0 UNFULFILLED OBLIGATIONS

Notwithstanding the issue of the Certificate of Completion of Making Good Defects under clause 48.4 hereof the Contractor and the Government shall remain liable for the fulfilment of any obligation incurred under the provisions of the Contract, prior to the issue of the said certificate, which remains unfulfilled at the time such certificate is issued, and for the purpose of determining the nature and extent of any such obligation, the Contract shall be deemed to remain in force between the Parties hereto.

50.0 SUSPENSION OF WORKS

50.1 Suspension and Resumption of Works

- (a) The S.O. may at any time instruct the Contractor to suspend part or all of the Works.
- (b) Upon receipt of such written instruction, the Contractor shall suspend part or all of the Works for such time and in such manner as specified in the instruction and shall duly protect, store and secure the Works or such part of the Works against any deterioration, loss or damage.
- (c) During the suspension period, the Contractor shall continue to perform its obligations under this Contract, which are not affected by the instruction to suspend, including the obligation to effect and maintain insurances and Performance Bond.

- (d) The S.O. may instruct the Contractor to resume the Works at any time thereafter. Upon receipt of such instruction the Contractor shall resume the Works and the Parties shall jointly examine the Works affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works which has occurred during the suspension. The Contractor shall also take all necessary actions to mitigate the expenses incurred

50.2 Extension of Time

If the Contractor suffers delay and/or incurs expenses in complying with the instruction under clause 50.1(a), and in resumption of the Works, and if such delay and/or expenses was not foreseeable by the Contractor, the Contractor shall give notice for extension of time under clause 43 and the provisions thereof shall apply accordingly. PROVIDED THAT the Contractor shall not be entitled to such extension if the suspension is due to a cause attributable to the Contractor and he shall not be entitled to payment of loss and expense if he –

- (a) fails to take measures specified in clause 50.1(b); and
- (b) fails to take all necessary action to mitigate the expenses incurred.

In the event such suspension shall continue for a period exceeding twelve (12) months, the Parties shall then discuss whether to mutually terminate the Contract or suspend the Works for a further period.

50.3 Consequences of Mutual Termination

- (a) If the Contract is mutually terminated under this clause-
 - (i) clause 51.1(c)(i) shall be applicable; and
 - (ii) payment obligations including all costs and expenditure incurred by the Government and the Contractor shall be ascertained in accordance with clause 54.

51.0 EVENTS AND CONSEQUENCES OF DEFAULT BY THE CONTRACTOR

51.1 Default of Obligations

(a) Events of Default

In the event the Contractor -

- (i) fails to commence works at the Site within two (2) weeks after the Date for Possession;
- (ii) suspends or abandons the carrying out of the Works or any part thereof for a continuous period of (....) days;
- (iii) fails to proceed regularly and diligently with the performance of his obligations under the Contract;
- (iv) fails to execute the Works in accordance with the Contract;
- (v) persistently neglects to carry out his obligations under the Contract;

- (vi) refuses or persistently neglects to comply with a written notice from the S.O. in relation to any defective work or equipment, materials or goods which are defective or do not meet the requirements of the Contract;
- (vii) fails to comply with the provisions of clause 47; or
- (viii) fails to comply with any terms and conditions of this Contract,

then the Government shall give written notice to the Contractor specifying the default, and requiring the Contractor to remedy such default within fourteen (14) days of the receipt of the default notice or any period determined by the Government.

(b) Termination

If the Contractor fails to remedy the breach within such period, the Government shall have the right to forthwith terminate this Contract by giving a written notice to that effect

(c) Consequences of Termination

If this Agreement is terminated under clause 51.1(b) -

- (i) the Contractor shall -
 - (A) forthwith cease all operations of the Works;
 - (B) carry out any protection works so as to secure the Site, equipment, goods, materials therein against any deterioration, loss or damage and to do all things necessary so as to leave the Site in a clean and tidy condition;
 - (C) remove its personnel and workmen from the Site;
 - (D) vacate the Site within the time stipulated by the S.O., remove all temporary buildings, plant, tools, equipment, goods and unfixed materials which have not been paid by the Government, as specified by the S.O. Failing which, the Government may (but without being responsible for any loss or damage) remove and sell any such property belonging to the Contractor, holding the proceeds, less all cost incurred, to the credit of the Contractor;
 - (E) either -
 - (aa) terminate all third party contracts entered into by the Contractor for the purposes of this Contract;
 - (bb) assign to the Government, if so required by the S.O., at no cost or expense to the Government, the benefit of any agreement for the supply of materials or goods and/or for the execution of any work or services for the purposes of this Contract; or
 - (cc) allow such third party to enter into a contract with the Government or any person deemed necessary by the Government for the purpose of completing the Works;

PROVIDED THAT the Government shall not be obliged to pay any third party for any materials or goods delivered or any work executed or services for the purposes of this Contract (whether before or after the date of termination) for which the Government has paid but the Contractor has failed to make payment to the third party;

- (F) at no cost to the Government, hand over to the Government all plans, designs, specification and other relevant documents relating to the Works;
 - (G) pay to the Government for any losses and damages as a result of termination of this Contract in the manner provided under clause 56; and
 - (H) not be released from any of its obligations under the Contract.
- (ii) the Government shall –
- (A) call upon the Performance Bond or forfeit the Performance Guarantee Sum;
 - (B) enter and repossess the Site;
 - (C) be entitled to carry out and complete the Works on its own or employ any other person to carry out and complete the Works; and
 - (D) be entitled to claim against the Contractor for any losses, costs, expenses and damages suffered as a result of termination of this Contract in the manner provided under clause 56.
- (iii) for the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract under this clause.

51.2 General Default

(a) Events of Default

If at any time during the Contract Period-

- (i) the Contractor becomes bankrupt;
- (ii) the Contractor becomes insolvent or compounds with or enters into an arrangements or compositions with its creditors;
- (iii) an order is made or resolution is effectively passed for the winding-up of the Contractor (except for the purpose of restructuring or amalgamation with the written consent of the Government, which consent shall not be unreasonably withheld);
- (iv) a provisional liquidator, receiver or manager of its business or undertaking duly appointed, or possession taken by or on behalf of creditors or debenture holders secured by a floating charge of any property comprised in or subject of the floating charge; or
- (v) execution is levied against a substantial portion of the Contractor's assets,

then the Government shall have the right to terminate this Contract forthwith by giving notice to that effect.

(b) Consequences of Termination

- (i) In the event the termination of this Contract under clause 51.2 takes place, clauses 51.1(c)(i) and 51.1(c)(ii) shall apply.
- (ii) For the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract under this clause.

52.0 TERMINATION ON NATIONAL INTEREST

52.1 Termination

- (a) Notwithstanding any provision of this Contract, the Government may terminate this Contract by giving not less than thirty (30) days written notice to that effect to the Contractor (without any obligation to give any reason thereof) if the Government considers that such termination is necessary for national interest, national policy or national security.
- (b) For the purpose of this clause, what constitutes “national interest”, “national policy” and “national security”, shall be solely made and determined by the Government and such determination shall for all intent and purposes be final and conclusive and shall not be open to any challenge whatsoever.

52.2 Consequences of Termination

Upon such termination of this Contract under clause 52.1-

- (a) payment obligations including all costs and expenditure incurred by the Government and the Contractor shall be ascertained in accordance with clause 54; and
- (b) clause 51.1(c)(i) and clause 51.1(c)(ii)(B) and (C) shall apply.

53.0 TERMINATION ON CORRUPTION, UNLAWFUL OR ILLEGAL ACTIVITIES

53.1 Termination

Without prejudice to any other rights of the Government, if the Company, its personnel, servants or employees is convicted by a court of law for corruption or unlawful or illegal activities in relation to this Contract or any other agreement that the Contractor may have with the Government, the Government shall be entitled to terminate this Contract at any time, by giving immediate written notice to that effect to the Contractor.

53.2 Consequences of Termination

Upon such termination under clause 53.1 –

- (a) the Government shall be entitled to all losses, costs, damages and expenses including any incidental costs and expenses incurred by the Government arising from such termination;
- (b) clause 51.1(c)(i) and (ii) shall apply; and

- (c) for the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any other form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract.

54.0 PAYMENTS UPON SUSPENSION AND TERMINATION ON NATIONAL INTEREST

54.1 If this Contract is terminated under clause 50 or clause 52, the amount to be paid (in so far as such amounts or items have not already been covered by payments on account made to the Contractor) shall be the following:

- (a) the value of all work carried out up to the date of termination;
- (b) the amounts payable in respect of any preliminary items so far as the Work or service comprised therein has been carried out or performed and a proper proportion of any such items which have been partially carried out or performed;
- (c) the cost of materials or goods reasonably ordered for the Works which have been delivered to the Contractor or of which the Contractor is legally liable to accept delivery (such materials or goods becoming the property of the Government upon such payment being made to the Contractor);
- (d) a sum being the amount of any expenditure reasonably incurred by the Contractor in so far as such expenditure has not been recovered by any other payments referred to in this sub-clause; and
- (e) the reasonable cost of any protection works and removal of equipment and site facilities pursuant to termination as provided under this Contract,

PROVIDED THAT such amount to be paid by the Government shall be confined only to those items as are clearly and expressly stated in sub-clauses (a)-(e) above.

54.2 For the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any other form of losses including loss of profit, damages, claims or whatsoever other than stipulated under clause 54.1(a)-(e). The Parties further agree that the amount agreed above by the Government shall constitute as a full and final settlement between the Parties.

54.3 Upon termination of this Contract under clause 50 and clause 52, a final account of this Contract shall be prepared and issued by the S.O.

55.0 EVENTS AND CONSEQUENCES OF DEFAULT BY THE GOVERNMENT

Default of Obligations

(a) Events of Default

If the Government without any reasonable cause fails to perform or fulfil any of its obligations which adversely affects the Works,

then the Contractor may issue a notice specifying the default by the Government and requiring the Government to remedy the same within the period specified therein taking into account the nature of the remedy to be carried out by the Government or such other period as may be agreed by both Parties from the date of receipt of such notice.

(b) Termination

If the Government fails to remedy the default period specified in such notice issued under Clause 55 (a) within the stipulated period time therein, the Contractor shall have the right to forthwith terminate this Contract by giving a written notice to that effect.

(c) Consequences of Termination

If this Contract is terminated under Clause 55 (b)

- (i) the Government shall pay to the Contractor –
 - (a) the value of the Works carried out up to the date of termination;
 - (b) the amounts payable in respect of any preliminary items so far as the Work or service comprised therein has been carried out or performed and a proper proportion of any such items which have been partially carried out or performed;
 - (c) the cost of materials or goods reasonably ordered for the Works which have been delivered to the Contractor or of which the Contractor is legally liable to accept delivery (such materials or goods becoming the property of the Government upon such payment being made to the Contractor); and
 - (d) a sum being the amount of any expenditure reasonably incurred by the Contractor in so far as such expenditure has not been recovered by any other payments referred to in this sub-clause.
- (ii) For the avoidance of doubt, the Parties hereby agree that the Contractor shall not be entitled to any other form of losses including loss of profit, damages, claims or whatsoever upon termination of this Contract.

56.0 CERTIFICATE OF TERMINATION COSTS

56.1 As soon as the arrangements for the completion of the Works made by the Government enable the S.O. to make a reasonably accurate assessment of the ultimate cost to the Government of completing the Works following the termination of the Contractor's employment and the engagement of other contractors or persons, and the amount of direct loss and/or damage caused to the Government due to the termination has been ascertained by the S.O., then the S.O. may issue a certificate (hereinafter referred to as the "Certificate of Termination Costs") stating the Completion Cost (hereinafter defined) and the Final Contract Sum (hereinafter defined).

56.2 The Completion Cost comprises the following sums, costs or expenditure:

- (a) the sums previously paid to the Contractor by the Government;
- (b) the sums paid or payable to other contractors or persons engaged by the Government to complete the Works;
- (c) any sums paid to sub-contractors or suppliers under clause 61;
- (d) any costs or expenditure incurred or to be incurred including On-Cost Charges incurred by the Government in completing the Works; and
- (e) the amount of direct loss and/or damage caused to the Government due to the termination.

56.3 The Final Contract Sum comprises of the following amounts or sums:

- (a) the amount which would have been payable under the Contract on completion in accordance with the Contract, allowing any variations or other matters which would have resulted in an adjustment of the original Contract Sum; and
- (b) any other sums which the Government might be entitled under the terms of the Contract to deduct from the original Contract Sum,

had the Contractor's employment not been terminated.

56.4 The Certificate of Termination Costs shall state the difference between the Final Contract Sum and the Completion Cost. If the Final Contract Sum is less than the Completion Cost, the difference shall be a debt payable by the Contractor to the Government and if greater the difference shall be a debt payable by the Government to the Contractor.

56.5 The Certificate of Termination Costs shall be binding and conclusive on the Contractor as to the amount of such loss or damage specified therein.

56.6 In the event the completion of the Works being undertaken departmentally, allowance shall be made, when ascertaining the amount to be certified as costs and expense incurred by the Government, for cost of supervision, interest and depreciation on plant and all other usual overhead charges and profit as would be incurred if the Works were completed by other contractors or persons.

57.0 SURVIVING RIGHTS

Any termination under this Contract shall not affect the liability of either Party hereto for any of its acts or omissions during the period of the Contract and both Parties shall thereafter continue to be so liable and shall keep the other Party hereto indemnified and hold harmless in respect of any claims arising therefrom.

58.0 EFFECT OF FORCE MAJEURE

58.1 Neither the Government nor the Contractor shall be in breach of its obligations under this Contract if it is unable to perform its obligation under this Contract (or any part of thereof), other than the payment obligations as a result of the occurrence of an Event of Force Majeure.

58.2 An "Event of Force Majeure" is an event beyond the control of both Parties which are:

- (a) war (whether declared or not), hostilities, invasion, act of foreign enemies;
- (b) insurrection, revolution, rebellion, military or usurped power, civil war, terrorism;
- (c) natural catastrophe including but not limited to earthquakes, floods, subterranean spontaneous combustion or any operation of the forces of nature against which an experienced contractor could not reasonably have been expected to take precautions;
- (d) nuclear explosion, radioactive or chemical contamination or radiation (unless caused by the negligence act, omission or default of the Contractor, its agents or personnel);
- (e) pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds; and
- (f) riot, commotion or disorder, unless solely restricted to employees of the Contractor or its personnel, servants or agents.

- 58.3** If an Event of Force Majeure occurs by reason of which either Party is unable to perform any of its obligation under this Contract (or any part thereof), the Party shall inform the other Party immediately of the occurrence of that Event of Force Majeure with full particulars thereof and the consequences thereof.
- 58.4** If either Party considers the Event of Force Majeure to be of such severity or to be continuing for such period of time that it effectively frustrates the original intention of this Contract, then the Parties may agree that this Contract may be terminated upon mutual agreement of the Parties.
- 58.5** If this Contract is terminated by an Event of Force Majeure pursuant to the above clause, all rights and obligations of the Parties under this Contract shall forthwith terminate and neither Party shall have any claim against the other Party and neither Party shall be liable to each other save for any rights and liabilities accruing prior to the occurrence of the Event of Force Majeure.
- 58.6** Neither Party shall be entitled to rely upon the provisions above if both Parties reasonably determine that an Event of Force Majeure has not occurred.
- 58.7** For avoidance of doubt, the Parties shall continue to perform those parts of those obligations not affected, delayed or interrupted by an Event of Force Majeure and such obligations shall, pending the outcome of this clause continue in full force and effect.

59.0 SITE AGENT AND ASSISTANTS

Unless otherwise provided elsewhere in this Contract, the Contractor shall keep constantly on the Site a competent, efficient, suitability qualified, experienced and good character site agent and his assistants in each trade as may be necessary who must be capable of receiving instructions in Bahasa Malaysia, and in default it shall be the responsibility of the Contractor to provide replacement for them and all wages and other expenses in connection with the employment of such replacement site agent and assistants. Any directions, explanations or instructions given to such site agent by the S.O. shall be deemed to have been given to the Contractor under this Contract.

60.0 NOMINATED SUB-CONTRACTORS AND/OR NOMINATED SUPPLIERS

- 60.1** The S.O. shall obtain tenders for Nominated Sub-Contractor's or Nominated Supplier's work or services, or for the supply of materials or goods in respect of which Prime Cost Sums or Provisional Sums are included in the Bills of Quantities, and the Contractor shall, on the written instruction of the S.O., enter into such sub-contracts with the Nominated Sub-Contractor or Nominated Supplier as the case may be and such sub-contracts shall be in the form as referred to in clause 60.2(b).
- 60.2** The S.O. shall not nominate as a sub-contractor or a supplier in connection with the Works:
- (a) a person against whom the Contractor shall make in writing within twenty one (21) days from the date of the S.O.'s instruction under clause 60.1 hereof what the S.O. considers to be reasonable objection;
 - (b) a person who will not enter into a sub-contract with terms and conditions as provided in the Government standard form of sub-contract for Nominated Sub-contractor (Form PWD 203N) or for Nominated Supplier (Form PWD 203P), as the case may be; or
 - (c) a person who will not give to the Government such indemnity with terms and conditions as provided in the Government standard form of Letter of Indemnity for Nominated Sub-contractors (Form PWD 203N7) or for Nominated Suppliers (Form PWD 203P7), as the case may be.

60.3 If pursuant to clause 60.2, the Contractor is not required to enter into a sub-contract with a Nominated Sub-contractor or Nominated Supplier, as the case may be, the S.O. shall do one or more of the following:

- (a) nominate an alternative sub-contractor or supplier, as the case may be, in which case clause 60.2 hereof shall apply;
- (b) by order under clause 24 vary the Works or the work or services, materials or goods, the subject of the Prime Cost Sums or Provisional Sum as aforesaid, including if necessary the omission of any such work or services, materials or goods so that they may be provided by workmen, contractors or suppliers, as the case may be, employed by the Government either concurrently with the Works or at some other date in which case the Contractor shall not be entitled to claim for any losses therefrom; or
- (c) in accordance with clause 34.4 arrange for the Contractor to execute such work or services, or to supply such materials or goods.

61.0 PAYMENT TO NOMINATED SUB-CONTRACTOR OR SUPPLIER

61.1 The S.O. in issuing Interim Certificates under clause 28 or the Final Certificate under clause 31 hereof shall state separately the amount of interim or final payment due to each Nominated Sub-Contractors or Suppliers which amount subject to clause 61.2 hereof, shall be paid by the Government direct to the Nominated Sub-contractors or Suppliers. The amount paid by the Government direct to the Nominated Sub-contractors or Suppliers shall be deemed to be a payment to the Contractor by the Government under and by virtue of this Contract.

61.2 Subject to the relevant provisions in the sub-contract (Form PWD 203N or Form PWD 203P as the case may be), the Contractor shall be entitled to be paid and the Government may pay to the Contractor out of any money otherwise due to a Nominated Sub-contractors or Suppliers:

- (a) any amount which the Government or the S.O. on its behalf in exercise of any rights under this Contract has deducted from any money due to the Contractor and such deduction is in respect of some act or default solely of the Nominated Sub-contractors or Suppliers, his servants or agents;
- (b) any amount agreed by the Nominated Sub-Contractor or Suppliers as due to the Contractor, or any amount awarded in arbitration or litigation in favour of the Contractor which arises out of or under the sub-contract; and
- (c) the amount of any claim for loss and/or expense actually incurred by the Contractor by reason of any breach or failure to observe the provisions of the sub-contract by the Nominated Sub-contractors or Suppliers under the sub-contract.

61.3 Any amount paid to the Contractor in accordance with this clause shall be deemed to be a payment to the Nominated and/or Sub-Contractors or Suppliers under the sub-contract.

62.0 NO LIABILITY OF GOVERNMENT TO NOMINATED AND/OR SUB-CONTRACTOR OR SUPPLIER

Nothing in clauses 60 or 61 or anything else contained in this Contract shall render the Government in any way liable to any Nominated and/or Sub-Contractor or Supplier.

63.0 RESPONSIBILITIES OF CONTRACTOR TO NOMINATED AND/OR SUB-CONTRACTORS OR SUPPLIERS

63.1 The Contractor shall be fully responsible to ensure that the Nominated Sub-Contractor or Suppliers shall conform with the terms and conditions of this Contract and shall be fully responsible for the acts, defaults or breach of any terms and/or conditions of this Contract by the Nominated Sub-Contractors or Suppliers on their part in the same way as for his own or those of other sub-contractors or suppliers engaged by himself. The Government shall in no circumstances be liable to the Contractor for the default of any Nominated Sub-Contractors or Suppliers.

63.2 In the event of repudiation or abandonment of his sub-contract by any Nominated Sub-contractor or Supplier, or the determination by the Contractor of the employment of the Nominated Sub-contractor or Supplier for any reason whatsoever under the sub-contract, the Contractor shall do one of the following :

- (a) with the consent of the S.O. (such consent not to be unreasonably withheld) employ another competent sub-contractor or supplier to complete the sub-contract; or
- (b) undertake to complete the sub-contract himself.

PROVIDED THAT in any of such events the Contractor is entitled to be paid the same sum for the work or services to be executed, or materials or goods to be supplied, as would have been payable had the original Nominated Sub-contractor or Supplier completed the sub-contract without any default on its part.

64.0 INTELLECTUAL PROPERTY RIGHTS

64.1 The Copyright and all other proprietary rights whatsoever in the Works and other material developed and supplied by the Contractor pursuant to or under this Contract shall vest in and shall be the sole property of the Government and the Contractor shall not during or at any time after completion of the Works or after the expiry or termination of this Contract, in any way, question or dispute the ownership of the Government. The proprietary rights in the Works shall vest in the Government free and clear of all liens, claims and encumbrances on the Works.

64.2 The Contractor shall be responsible for any claim that the equipment supplied infringes a patent, copyright or registered design.

64.3 If the Government's use or possession of the equipment is likely to constitute an infringement, then the Contractor shall promptly and at its own expenses procure for the Government the right to continue using and possessing the equipment; or modify or replace the equipment so as to avoid the infringement (in which event the Contractor shall compensate the Government for the amount of any direct loss or damage sustained or incurred by the Government during such modification or replacement).

64.4 The Contractor shall indemnify the Government against any claim for the infringement of any letters patent, copyright or registered designs by the use of any equipment or of information supplied under this Contract and against all costs and damages which the Government may incur in any action for which such infringements or for which the Government may become liable in any such action.

65.0 ANTIQUITIES

65.1 All fossils, coins, antiquities and other objects of interest or value which may be found on the Site or in excavating the same during the progress of the Works shall become absolute property of the Government and upon discovery of such an object the Contractor shall forthwith-

- (a) not to disturb the object and shall cease work if and in so far as the continuance of the work would endanger the object or prevent or impede its excavation or its removal;
- (b) take all steps which may be necessary to preserve the object in the exact position and condition in which it was found; and
- (c) inform the S.O. of the discovery and precise location of the object.

65.2 The S.O. shall issue instructions in regard to what is to be done concerning the object reported by the Contractor under clause 65.1 and (without prejudice to the generality of his power) such instructions may require the Contractor to permit the examination, excavation or removal of the object by a third party. Any such third party shall for the purpose of clause 15 be deemed to be a person for whom the Government is responsible and not to be a sub-contractor.

65.3 If compliance with the provisions of clause 65.1 or with an instruction issued under clause 65.2 has involved the Contractor in direct loss and/or expense for which he would not be reimbursed by a payment made under any other provisions of this Contract then the amount of such loss and/or expense shall be added to the Contract Sum.

66.0 ARBITRATION

66.1 If any dispute or difference shall arise between the Government and the Contractor out of or in connection with the contract, then parties shall refer such matter, dispute or difference to the officer named in Appendix for a decision.

66.2 The officer named in Appendix's decision shall be in writing and shall subject to clause 66.4 hereof, be binding on the Parties until the completion of the Works and shall forthwith be given effect to by the Contractor who shall proceed with the Works with all due diligence whether or not notice of dissatisfaction is given by him.

66.3 If the Parties –

- (a) fails to receive a decision from the officer named in the Appendix within forty-five (45) days after being requested to do so; or
- (b) is dissatisfied with any decision of the officer named in the Appendix,

then such dispute or difference shall be referred to arbitration within forty-five (45) days to an arbitrator to be agreed between the Parties and failing such agreement, to be appointed by the Director of the Regional Centre for arbitration in Kuala Lumpur on the application of either Party hereto. Such arbitration shall be heard at the Kuala Lumpur Regional Centre for Arbitration and shall be conducted in accordance with the rules for arbitration of the Kuala Lumpur Regional Centre for Arbitration using the facilities and the system available at the Centre.

66.4 Such reference, except on any difference or dispute under clause 51 hereof shall not be commenced until after the completion or alleged completion of the Works or determination or alleged determination of the Contractor's employment under this Contract, or abandonment of the Works, unless with the written consent of the Government and the Contractor.

66.5 In the event that such consent has been obtained in accordance with clause 66.4, the reference of any matter, dispute or difference to arbitration pursuant to this clause and/or the continuance of any arbitration proceedings consequent thereto shall in no way operate as a waiver of the obligations of the parties to perform their respective obligations under this Contract.

66.6 In any arbitration proceedings conducted pursuant to clause 66.3, the Parties may make any counter claim in relation to any dispute or difference arising from the Contract.

- 66.7** Upon every or any such reference the costs of such incidental to the reference and award shall be in the discretion of the Arbitrator who may determine the amount thereof, or direct the amount to be taxed as between solicitor and client or as between party and party, and shall direct by whom and to whom and in what manner the same be borne, award and paid.
- 66.8** The award of the Arbitrator shall be final and binding on the Parties.
- 66.9** In the event of the death of the arbitrator or his unwillingness or inability to act, then the Government and the Contractor upon agreement shall appoint another person to act as the arbitrator, and in the event the Government and the Contractor fail to agree on the appointment of an arbitrator, an arbitrator shall be appointed by the Director of the Regional Centre for Arbitration in Kuala Lumpur.
- 66.10** In this clause, "reference" shall be deemed to be reference to arbitration within the meaning of the Arbitration Act 2005.
- 66.11** The arbitration shall be governed by the Arbitration Act 2005 and the laws of Malaysia.

67.0 NOTICE, ETC.

- 67.1** Any notice, approval, consent, request or other communication required or permitted to be given or made under this Contract shall be in writing in Bahasa Malaysia or English language.
- 67.2** Such notice shall be effected by:
- (i) hand delivery or courier and an acknowledgement of receipt obtained;
 - (ii) leaving the notice at the registered office or site office of the Contractor in which case it shall be deemed to have been duly delivered; or
 - (iii) registered post in which case it shall be deemed to have been received seven (7) days after the date of posting.
- 67.3** The address of the Government and the Contractor is as shown below or such other address as either party may have notified the sender:

to the Government:

Address: **MAJLIS PERBANDARAN KAJANG
MENARA MPKj
JALAN CEMPAKA PUTIH
OFF JALAN SEMENYIH
43000 KAJANG
SELANGOR DARUL EHSAN**

to the Contractor:

Address:

- 67.4** It shall be the duty of the parties to notify the other if there is a change of address or entity by giving a written notice within fourteen (14) days. In the event of the Contractor failing to notify the S.O. of such an address or any change in his address, such written notices and instructions shall be deemed to have been served upon the Contractor if they are sent in the manner stated above to the address stated in this Contract or to the Contractor's site office.

68.0 SAFETY AT THE SITE

68.1 Compliance with Safety Requirements

The Contractor shall comply with all relevant laws, regulations, rules, by-laws, directive or order by the relevant authorities on the requirements of safety-at-work ("Safety Requirements") and shall ensure his personnel, workmen and sub-contractors at all times during the execution of Works comply with such Safety Requirements.

68.2 Submission of Safety Programme

- (a) Within 14 days from the receipt of the Letter of Acceptance by the Government, the Contractor shall submit to the S.O a safety programme to ensure that all construction activities required for the execution of the Works are carried out in a safe manner and in compliance with Safety Requirements.
- (b) The safety programme shall be subject to the approval of the S.O. The submission to and approval by the S.O of the safety programme shall not relieve the Contractor of any of his obligations and liabilities pertaining to the safety requirement under the Contract.

68.3 Safety Officer and Personnel

- a) The Contractor shall appoint a suitably qualified and experienced person as safety officer who shall be responsible for compliance with Safety Requirements and all safety matters relating to the Works. The Contractor shall, from time to time, provide such other personnel and resources as may be required to ensure the effective implementation of the safety programme on Site.
- b) The Contractor shall conduct training programmes for all workmen including workmen of his sub-contractors for compliance with the Safety Requirements.

68.4 Safety Measures

- (a) The Contractor shall ensure that the constructional plant together with all other tools and equipment and other items used in the execution of the Works are in a safe, sound and good condition and capable of performing the functions for which they are intended.
- (b) The Contractor is responsible for instituting a safe method of construction on Site for all the workers and shall ensure that his sub-contractors whether nominated or otherwise institute the same method of construction for their workers.
- (c) Without limiting his liability under the Contract, the Contractor shall provide all workmen on Site with the necessary safety equipment including but not limited to safety boots, safety helmets and protective clothing.

69.0 ADVANCE PAYMENT

- 69.1** The Contractor shall be entitled to an advance payment on the Contract amounting to 25% of the value of the Contract Sum less Prime Cost Sums and Provisional Sums (hereinafter referred to as the "Builder's Work") but subject to a maximum of RM10 million on compliance with the following conditions:

- (a) on return of the Letter of Acceptance duly signed by the Contractor together with the Performance Bond (if any), insurance policies, confirmation from SOCSO Authorities and the receipts for all premium paid;
- (b) production of a Banker's/Insurance/Finance Company Guarantee in the approved format equal in value to the advance proposed to be paid;
- (c) Submission of the Banker's Guarantee / Insurance Guarantee / Financial Company Guarantee not later than 3 months from the date of possession of Site.

69.2 The advance payment shall be recouped when the cumulative total value of the Builder's Work executed and certified (including the amount certified for materials on site) reaches (25%) twenty five percent of the total contract value of Builder's Work, by way of a fixed percentage deduction from the total certified value of the Builder's Work executed (including the amount certified for materials on site) during the period covered by an Interim Payment Certificate, in all the subsequent Interim Payment Certificates on the basis that the advance payment made shall be fully recovered in the Interim Payment Certificate in which the cumulative total certified value of the Builder's Work executed (including the amount certified for materials on site) reaches seventy-five (75) percent of the total contract value of the Builder's work*. The deduction shall be calculated as follows:

$$\begin{aligned} \$ D &= 200 \frac{A}{B} \text{ percent of } \$ P \\ \text{Where } \$ D &= \text{cumulative deduction to be made in Interim Payment Certificate,} \\ \$ A &= \text{total amount of advance paid,} \\ \$ B &= \text{total contract value of Builder's Work} \\ \$ P &= \text{gross certified value of Builder's Work executed (including the amount certified for materials on site) or agreed cumulative scheduled payments in excess of 25\% of } \$ B \end{aligned}$$

69.3 The liability under the advance guarantee shall be terminated upon realization by the Government of the full sum of advance paid. However if the full sum of the advance paid cannot be realized before the completion date of the contract or any authorised extension thereof or the case of the contract been determined before the date of the determination, then the balance of the advance repayable to the Government shall be recovered from the advance guarantee.

70.0 AMENDMENT

No modification, amendment or waiver of any of the provisions of this Contract shall be effective unless made by mutual consent and made in writing by way of supplementary agreement specifically referring to this Contract and duly signed by the Parties. The provisions in respect of such amendment, variation or modification thereof shall be supplemental to and be read as integral part of this Contract which shall remain in full force and effect as between both Parties.

71.0 CONFIDENTIALITY

71.1 This Contract and all such drawings, records, data, books, reports and all matters pertaining hereto shall be considered as confidential matter and shall not be disclosed to any third party without prior written mutual agreement, save and except where-

- (a) disclosure of such information is necessary for the purposes of raising finance to undertake the obligations of the Contractor under this Contract;
- (b) disclosure of such information is made to the Contractor's consultants, auditors or advisers;
- (c) disclosure of such information is required by law or by any government agency or for the performance of any obligations under this Contract; or
- (d) the information has entered public domain.

71.2 Where information has been disclosed to third parties pursuant to clause 69.1, the Contractor undertakes to ensure that such third parties shall not disclose the information to any other third party.

71.3 The restrictions contained in this clause shall survive the termination of this Contract and shall continue to bind both Parties without limit in point of time.

72.0 STAMP DUTY

The Contractor shall solely bear the stamp duties, legal costs and fees in the preparation and execution of this Contract and anything incidental thereto.

73.0 SEVERABILITY

If any provision of this Contract is held to be illegal or is invalid under any laws or regulations effective and applicable during the term of this Contract such provision shall be fully severable and this Contract shall be construed as if such illegal or invalid provision had never comprised as part of this Contract and the remaining provisions of this Contract shall remain in full force and effect and shall not be affected by the illegal or invalid provision or by its severance from this Contract.

74.0 WAIVER

Failure by any Party to enforce at any time, any provision of this Contract shall not be construed as a waiver of its right to enforce the breach of such provision or any other provision in this Contract or as a waiver of any continuing, succeeding or subsequent breach of any provision or other provision of this Contract.

75.0 LAWS APPLICABLE

This Contract shall be governed by and construed in accordance with the laws of Malaysia and the Parties irrevocably submit to the exclusive jurisdiction of the courts of Malaysia.

76.0 SUCCESSORS BOUND

This Contract shall be binding upon the respective successors-in-title of the Parties.

77.0 EPIDEMICS AND MEDICAL ATTENDANCE

- 77.1** The Contractor shall maintain the Site in clean and sanitary condition and shall comply with all requirements of the Government Health and Sanitary Authorities. In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government or the local medical or health authorities for the purpose of dealing with and overcoming the same.
- 77.2** The Contractor shall ensure that sufficient first aid kits are made available at suitable locations on the Site.

78.0 TECHNOLOGY TRANSFER

If the Contractor appoints foreign professionals, the Contractor shall endeavour to ensure that the employees of the Government are trained or exposed to the expertise of such foreign professionals pursuant to a programme for technology transfer.

79.0 GENERAL DUTIES AND PERFORMANCE STANDARD

78.1 Industry Practice

The Contractor shall provide and perform the Works in a proper manner in accordance with good management and best industry practice and to the best advantage of the Government and shall comply with all law, statutes and any guidelines or direction issued by the Government to the contractor from time to time.

79.2 Competency

The Contractor shall provide and perform its obligations under this Contract and take all appropriate measures expected of a competent company using due care and skills of a professional person providing similar service or works to ensure that the Works comply with the terms and conditions of this Contract.

79.3 Government's Interest

The Contractor shall at all times perform the Works in such manner as will always safeguard and protect the Government's interest and take all necessary and protect the Government' interest take all necessary and proper steps to prevent abuse and in accordance with the provisions of this Contract.

80.0 RESTRICTION AND PROCEDURE ON USE OF IMPORTED MATERIALS AND GOODS

- 80.1** The Contractor shall use local goods/materials as listed in the 'Senarai Bahan/Barangan Buatan Tempatan' issued by IKRAM QA Services Sdn. Bhd. and/or issued by SIRIM QA Services Sdn. Bhd., whichever is relevant. If the Contractor fails to comply with this requirement, the Government may reject the goods/materials which are found to be not in compliance with this requirement.
- 80.2** For local goods/materials not listed as aforesaid, such goods/materials may be allowed if prior testing and certification from IKRAM QA Services Sdn. Bhd. or SIRIM QA Services Sdn. Bhd., whichever is relevant, has been obtained. Where such testing cannot be carried out by IKRAM

QA Services Sdn. Bhd. or SIRIM QA Services Sdn. Bhd. the Contractor may, with the S.O.'s prior approval, have the testing to be done by another agency.

- 80.3** Under no circumstances shall the Contractor be permitted to incorporate or supply imported materials, plant, equipment, vehicles or other goods into the Works or forming part of the scope of the Works except those approved by the Government, prior to the execution of the Contract. The Contractor shall at his own cost entirely substitute any materials, plant, equipment, vehicles or other goods proposed to be imported but not approved by the Government, with suitable local materials, plant, equipment, vehicles or other goods, including making any necessary subsequential changes or adjustment to the design of the Works to accommodate such substitution, all to the concurrence of the S.O..
- 80.4** The Contractor shall ensure that the procurement of approved imported materials, plant, equipment, vehicles or other goods are obtained directly from the country of origin based on F.O.B. or other similar basis. The transportation and insurance of such imported materials, plant, equipment, vehicles or other goods from the country of origin to the Site shall be arranged by the Contractor through the Government's Multi Modal Transport Operators (hereinafter referred to as MTO) as listed in Appendix. The Contractor shall allow in his tender all costs and time required in complying with the requirements of this Clause including the cost required for the services provided by the MTO.
- 80.5** The Contractor shall submit documentary evidence of compliance with this clause to the S.O. within one (1) month from the date of each delivery to the Site of such materials, plant, equipment, vehicles or other goods.

81.0 TIME

Time whenever mentioned shall be of the essence of this Agreement.

IN WITNESS WHEREOF the Parties hereto have executed this Agreement on the day and year firstabove written.

SIGNED for and on behalf of

)

)

MAJLIS PERBANDARAN KAJANG

)

)

in the presence of:

)

)

*¹The Common Seal of

)

)

)

(Co. No. :

)

)

was hereunto affixed

)

in the presence of:

)

.....
Director

Name :

NRIC No.:

.....
Director/Secretary

Name :

NRIC No.:

¹ applicable only if the Contractor is a company registered under the Companies Act 1965

**APPENDIX TO THE CONDITION
OF CONTRACT**

APPENDIX TO THE CONDITIONS OF CONTRACT

Clause

- 4.1(a) Officer(s) empowered to approve variations according to the limits as set out in Treasury's Instructions No.202 as amended.

Financial Limits	Officer
a) Original Contract sum not exceeding RM10 mil. And accumulative V.O. amount not exceeding 10% of the contract sum OR original contract sum exceeding RM10 mil. And V.O. amount not exceeding RM 1 mil.	A committee chaired by Yang Dipertua MPKj
b) Original Contract sum not exceeding RM20 mil. And accumulative V.O. amount not exceeding 20% of the contract sum OR original contract sum exceeding RM20 mil. And V.O. amount not exceeding RM 1 mil.	'Lembaga Perolehan Agensi'
c) All other cases.	'Ketua Setiausaha Perbendaharan' or Financial officer of applicable state

- 4.1(b) Officer(s) empowered to take Action on behalf of the Government in respect of :

Clauses 51,52,53, 58 and 66..... Yang Dipertua MPKj

- 13 Performance Bond

Amount of Guarantee RM 5% of Contract Sum

Guarantor Bank/Insurance Company/
Finance Company

Guarantee No.

- 15 Minimum insurance cover for any one accident or series of accidents arising out of one event.. ...

RM.....

Policy No. To be submitted by the Contractor

Period of insurance Contract Period + DLP Period + 14 Days + 3 Month

- 15.1 (b) Amount of excess

RM To be borne by the Contractor

APPENDIX TO THE CONDITIONS OF CONTRACT - (Cont'd)

Clause

17	SOCSSO Scheme registration number..	<u>To be submitted by the Contractor</u>
18	Amount to be added to full value of Contract Sum as the insured sum	RM <u>Not Applicable</u>
	Total Amount Insured	RM.....
		Policy No.....
		Period of insurance
18 (b)	Amount of excess	RM <u>Nil</u>
21.2	Date of Tender	
28.1	Value of work to be executed including materials and goods to be delivered before First Interim Certificate will be issued	Min RM1,000.00
28.2	Value of work to be executed including materials and goods to be delivered before each subsequent Interim Certificate will be issued	Min RM1,000.00
28.6	Period for honouring payment certificate (if none stated, then within thirty (30) days of the issue of the Certificate)	<u>Thirty (30) days</u>
34.4	Work covered by P.C. Sums for which the Contractor will be permitted to tender ... ..	.....
38.2	'Date for Possession' of the Site	<u>As stipulated in Letter of Acceptance</u>
39.1	'Date for Completion' for whole of the Works ...	<u>As stipulated in Letter of Acceptance</u>
40.2	Liquidated and Ascertained Damages at the rate of	RM <u>(0.0189% of Contract Sum) per Day</u>

APPENDIX TO THE CONDITIONS OF CONTRACT - (Cont'd)

Clause

41.1 Sectional Completion:

Identification of Sections or parts	Date for Possession [Clause 38.3]	Date for Completion	Liquidated & Ascertained Damages
	----- Not Applicable -----		

48.1(a) Defects Liability Period (if none stated, then the period is twelve (12) months) **Twelve (12) months**

5.3, 5.4, 15.3
17.3(b), 18.2, Percentage of on-cost charges 5%

48.2
56.2(d) Percentage of on-cost charges 10%

**ADDENDA NO.1, 2, 3, 4, 5, 6, 7, & 8 KEPADA
SYARAT-SYARAT KONTRAK**

This Addendum No. 1 to the Conditions of Contract PWD 203/203A (Rev. 1/2010) consisting of 4 pages (including this page) which are and shall be read and construed as part of the said Contract.

.....
Signature of Contractor

(Name in full.....)

I.C. No.

In the capacity of

Duly authorised to sign for and on behalf of

.....
Contractor's Chop or Seal

Witness

Name in full

I.C. No.

Occupation

Address

.....

.....
Signature of Officer

(Name in full

Designation

Duly authorised to sign for and on behalf of
the Government

.....
Official Chop

Witness

Name in full

Designation

Address

.....

**ADDENDUM NO. 1 TO THE CONDITIONS OF CONTRACT
PWD 203/203A (Rev. 1/2010)**

NO.	AMENDMENTS
-----	------------

1. Page 20, Clause 28

Substitute the whole of Clause 28.0 with the new Clause 28.0 as follows:

- 28.1 Subject to compliance with the terms and conditions under this Contract, The Contractor shall be entitled for Interim Payment certified by the S.O.'s monthly evaluation (or more often at the discretion of the S.O.). Provided always that the Contractor shall submit to the S.O., at such times and in such form as the S.O. may prescribe, written application for Interim Payments showing the amounts which in the Contractor's opinion are due under the Contract Payments. The submission shall include the following:
- (a) the value of Works done and properly executed and valued in accordance with these terms of Contract;
 - (b) the amount of any valuation of variations or of the instructions by the S.O. (clause 25);
 - (c) the amount in regard to the expenditure of Provisional Sums and Prime Cost Sums executed or expended (clause 34);
 - (d) the value of any goods or unfixed materials delivered to or adjacent to the Site intended for use or to be incorporated into the Works;
 - (e) the value of fluctuation of price pursuant to clause 30: and
 - (f) all relevant documents including site measurement, working diagrams, delivery orders, relevant invoices, as-built drawings, shop drawings relevant tests and environmental impact assessment of the Works or other relevant documents as the S.O. may require, to substantiate the Contractor's written application for interim payments,.
- 28.2 The S.O. shall within fourteen (14) days from the date of receipt of the application for Interim Payments, inspect and verify the Works, and make a valuation of the same and issue an Interim Payment Certificate stating the amount due to the Contractor from the Government PROVIDED THAT the total value in each monthly valuation shall not be less than the sum referred to in Appendix 1.
- 28.3 The amount stated as due in an Interim Payment Certificate shall be the estimated total value of the Works done and properly executed and up to ninety (90) percent of the value of any goods or unfixed materials delivered to or adjacent to the Site intended for use or to be incorporated into the Works up to and including the date the valuation was made, less any payments (including Advance Payment) previously paid under this Contract. PROVIDED THAT such Certificate shall only include the value of the said goods or unfixed materials as and from such time as they are reasonably and properly and not prematurely delivered to or adjacent to the Site and adequately protected against weather, damage or deterioration.

- 28.4 This clause shall not apply to any unfixed materials and goods which are supplied and delivered by Nominated Suppliers for which payment shall be made for the full value of the unfixed materials and goods.
- 28.5 Within a number of days as stated in Appendix (or if none stated then within thirty (30) days of the issue of any such Interim Certificate), the Government shall make a payment to the Contractor as follows:
- (a) where the Performance Bond is in the form of a Banker's, Insurance or Finance Company Guarantee, payment shall be made on the amount certified as due to the Contractor in the said Interim Certificate; or
 - (b) where the Performance Bond is in the form of a Performance Guarantee Sum, payment of ninety percent (90%) on the amount certified as due to the Contractor shall be made with the remaining ten percent (10%) being retained by the Government as a Performance Guarantee Sum. PROVIDED THAT when the sum retained is equivalent to five percent (5%) of the Contract Sum then in any subsequent Certificate, payment shall be made on the full amount certified as due to the Contractor.
- 28.6 If the Contractor fails to submit full particulars of written application for Interim Payment as stipulated in clause 28.1, the S.O. shall make the valuation of works based on the available documents to him for the purpose of the Interim Payment Certificate. The Government shall be discharged from all liabilities in connection with the Interim Payments.

2. Page 21, Clause 31

Substitute the whole of Clause 31.0 with the new Clause 31.0 as follows:

- 31.1 As soon as is practicable but not later than three (3) months after the issuance of the Certificate of Practical Completion, the Contractor shall submit full particulars complete with receipts, vouchers records that would substantiate the Contractor's claim under clause 44 together with any documents, supporting vouchers and any explanation and calculations including documents relating to the accounts of Nominated Sub-Contractors or Nominated Suppliers, which may be necessary to enable the Final Account to be prepared by the S.O. PROVIDED ALWAYS the Contractor had given the notice of claim in writing within the stipulated time or times in the said provisions.
- 31.2 Within three (3) months after issuance of the Certificate of Completion of Making Good Defects, the Contractor shall submit to the S.O. a statement of the final account showing in detail the value in accordance with the Contract, of the Works carried out together with all further sums which the Contractor considers to be due to him after giving credit to the Government for all amounts previously paid by the Government and for all sums to which the Government is entitled under the Contract up to the date of the Certificate of Completion of Making Good Defects or the Certificate of Completion of Maintenance, as the case may be. The Final Account shall be supported by all documentation substantiating the value of the same.
- 31.3 If the Contractor fails to submit full particulars of all claims within the stipulated period,

the S.O. shall forthwith make the assessment based on the available documents submitted by the Contractor for the purpose of the Final Account. The Government shall be discharged from all liabilities in connection with the claims.

- 31.4 Within three (3) months after the expiry of the Defects Liability Period for the whole of the Works or three (3) months after the issue of the Certificate of Completion of Making Good Defects under clause 48 hereof, whichever is the later, the S.O. shall issue the Final Certificate.
- 31.5 The Final Certificate shall be supported by documents, and full particulars complete with receipts, vouchers records showing the S.O.'s final valuation of Works and any amount determined in clause 31.1 in accordance with the terms of this Contract. After setting out or allowing for all payments or other expenditure of the Government or any permitted deductions made by the Government or the S.O. on its behalf, the Final Certificate shall state any final balance due from the Government to the Contractor or from the Contractor to the Government, as the case may be, which shall thereupon become the debt payable. Such certificate shall also take account of any outstanding permitted deductions not yet made by the Government under the terms of this Contract whether by way of liquidated damages or otherwise.
- 31.6 No final payment due to the Contractor under the Final Certificate, shall be made unless and until the Contractor shall have satisfied the S.O. by means of a Statutory Declaration made by or on behalf of the Contractor to the effect that the workmen who have been employed by the Contractor on the Works including workmen employed by sub-contractors, whether nominated or otherwise (including "labour only" sub-contractors) have received all wages due to them in connection with such employment, and that all dues or contributions under the Employment Act 1955, the Employee's Social Security Act 1969, the Employee's Provident Fund Act 1965 and any other laws relevant to the employment of workmen, have been paid.

3. Page 27, Clause 40

- 3.1 Substitute clause 40.1 with the new clause 40.1 as follows:

40.1 If the Contractor fails to complete the Works by the Date for Completion or within any extended time granted pursuant to clause 43, the S.O. shall issue a Certificate of Non-Completion to the Contractor.

- 3.2 Substitute clause 40.2 with the new clause 40.2 as follows:

40.2 Without prejudice to the Government's right to terminate this Contract, when the S.O. issues the Certificate of Non-Completion, the Government shall be entitled to recover from the Contractor, Liquidated and Ascertained Damages calculated at the rate stated in Appendix 1 from the date of the failure to complete the work pursuant to clause 40.1 to the date of the Practical Completion or the date of termination of this Contract. The S.O. may deduct such Liquidated and Ascertained Damages from any money due or to become due to the Contractor, failing which such damages shall be recovered from the Performance Bond or as a debt due from the Contractor. The S.O. shall inform the Contractor in writing of such deduction.

This Addendum No. 2 to the Conditions of Contract P.W.D. Form 203/203A (Rev. 1/2010) consists of 2 pages (including this page) which are and shall be read and construed as part of the said Contract.

.....
Signature of Contractor

(Name in full.....)

I.C. No.

In the capacity of

Duly authorised to sign for and on behalf of

.....
Contractor's Chop or Seal

Witness

Name in full

I.C. No.

Occupation

Address

.....
Signature of Officer

(Name in full.....)

Designation

Duly authorised to sign for and on behalf
of the Government

.....
Official Chop

Witness

Name in full

Designation

Address

**ADDENDUM NO. 2 TO THE CONDITIONS OF CONTRACT
P.W.D. FORM 203/203A (Rev. 1/2010)**

NO.	AMENDMENTS
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1. Page 2, Clause 1.1(ea)

Insert Clause 1.1(ea) after Clause 1.1(e) "Contract Sum" as follows

(ea)	"Tender Price"	means the price offered by the Contractor as stipulated in the Letter of Acceptance of Tender;
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2. Page 45, Clause 69.1 (PWD203A) / Page 46, Clause 69.1 (PWD203)

Substitute Clause 69.1 with the new Clause 69.1 as follows

69.1 The Contractor shall be entitled to an advance payment on the Contract amounting to 25% of the Tender Price less the aggregate amount of Prime Cost Sums and Provisional Sums including the value of tax imposed under the Goods and Services Tax 2014 (hereinafter referred to as the "Builder's Work") but subject to a maximum of RM10 million on compliance with the following conditions:

- (a) on return of the Letter of Acceptance duly signed by the Contractor together with the Performance Bond (if any), insurance policies, confirmation from SOCSO Authorities and the receipts for all premium paid;
- (b) production of a Banker's/Insurance/Finance Company Guarantee in the approved format equal in value to the advance proposed to be paid;

- (c) Submission of the Banker's Guarantee / Insurance Guarantee / Financial Company Guarantee not later than 3 months from the date of possession of Site.

MANSUH

This Addendum No. 3 to the Conditions of Contract P.W.D. FORM 203 / 203A (Rev. 1/2010) consists of 2 pages (including this page) which are and shall be read and construed as part of the said contract.

.....
Signature of Contractor

(Name in full.....)

I.C. No

In the capacity of

Duly authorised to sign for and on
behalf of

.....
Signature of Officer

(Name in full.....)

Designation

Duly authorised to sign for and on behalf
of the Government

.....
Contractor's Stamp or Seal

Witness

Name in Full

I.C No

Occupation

Address

.....
Official Stamp

Witness

Name in Full

Designation.....

Address

ADDENDUM NO.3 TO THE CONDITIONS OF CONTRACT

P.W.D. FORM 203 / 203A (Rev. 1/2010)

NO.	AMENDMENTS
-----	------------

1. Page 10, Clause 13

13.0 PERFORMANCE BOND / PERFORMANCE GUARANTEE SUM

1.1 Substitute the Clause 13.1(a) with the new Clause 13.1 (a) as follows:

13.1 (a) The Contractor shall, on the date of the possession of Site, provide a Performance Bond or Performance Guarantee Sum as the case may be substantially in the form as in Appendix issued by an approved licensed bank or financial institution incorporated in Malaysia in favour of the Government for a sum equivalent to five percent (5%) of the total Contract Sum as specified in Appendix to secure the due performance of the obligations under this Contract by the Contractor. The Performance Bond shall remain valid and effective until ***twelve (12) / twenty four (24) months** after the expiry of the Defect Liability Period or the issuance of the Certificate of Completion of Making Good Defects, whichever is the later.

1.2 Substitute the Clause 13.2 with the new Clause 13.2 as follows:

13.2 The Contractor may opt for a Performance Bond in the form of Performance Guarantee Sum in lieu of the Bank, Insurance or Finance Company Guarantee as specified in clause 13.1 hereof whereby deductions of ten percent (10%) shall be made from the first interim payments and subsequent interim payment until the total amount deducted aggregate to a sum equivalent to five percent (5%) of the Contract Sum. The amount deducted shall be retained by the Government up to ***twelve (12) / twenty four (24) months** after the expiry of the Defect Liability Period or the issuance of the Certificate of Completion of Making Good Defects, whichever is the later.

**Delete whichever is not applicable :-*

Contract sum up to RM10 million : twelve (12) months,

Contract sum more than RM10 million : twenty four (24) month

This Addendum No. 4 to the Conditions of Contract PWD FORM 203A/203 (Rev. 1/2010) consists of 2 pages (including this page) which are and shall be read and construed as part of the said Contract.

Signature of Contractor

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of

Contractor's Chop or Seal

Witness

(Name in full)

I.C. No.

Occupation

Address

.....

Signature of Officer

(Name in full)

In the capacity of

Duly authorised to sign and on behalf of
the Government

Official Chop

Witness

(Name in full)

Designation

Address

.....

ADDENDUM NO. 4 TO THE CONDITIONS OF CONTRACT
PWD FORM 203A/203 (Rev. 1/2010)

NO.	AMENDMENTS
------------	-------------------

1. Page 46, Clause 69.2

Substitute Clause 69.2 with the new Clause 69.2 as follows:

"69.2 The advance payment shall be recouped when the cumulative total value of the Builder's Work executed and certified (including the amount certified for materials on site) reaches fifty (50) percent of the total contract value of Builder's Work, by way of a fixed percentage deduction from the total certified value of the Builder's Work executed and certified (including the amount certified for materials on site) during the period covered by an Interim Payment Certificate, in all the subsequent Interim Payment Certificates on the basis that the advance payment made shall be fully recovered in the Interim Certificate in which the cumulative total certified value of the Builder's Work executed and certified (including the amount certified for materials on site) reaches eighty-five (85) percent of the total contract value of the Builder's Work. The deduction shall be calculated as follows:

$$\text{\$ D} = 290 \frac{\text{A}}{\text{B}} \text{ percent of \$P}$$

Where \$ D = Cumulative deduction to be made in Interim Payment Certificate,

\$ A = Total amount of advance paid,

\$ B = Total contract value of Builder's Work,

\$ P = Gross certified value of Builder's Work executed (including the amount certified for materials on site) or agreed cumulative scheduled payments in excess of 50% of \$ B".

This Addendum No. 5 to the Conditions of Contract P.W.D FORM 203/203A (Rev. 1/2010) consisting of 3 pages (including this page) which are and shall be read and construed as part of the said Contract.

.....
Signature of Contractor

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of
the Government

Contractor's Chop or Seal

Witness

(Name in full)

I.C. No.

Occupation

Address

.....

.....
Signature of Officer

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of

Official Chop

Witness

(Name in full)

I.C. No.

Designation

Address

.....

ADDENDUM NO. 5 TO THE CONDITIONS OF CONTRACT
P.W.D FORM 203/203A (Rev. 1/2010)

NO. AMENDMENTS

1. Page 39, Clause 58.0

Substitute the whole of Clause 58.0 with the new Clause 58.0 as follows:

58.0 EFFECTS OF FORCE MAJEURE

58.1 Events of Force Majeure

Neither the Government nor the Contractor shall be in breach of its obligations under this Contract if it is unable to perform or fulfil any of its obligations under this Contract (or any part of them) as a result of the occurrence of an Event of Force Majeure. An event of "force majeure" shall mean an event, not within the control of the Party affected, which that party is unable to prevent, avoid or remove and shall mean –

- (a) war (whether declared or not), hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection, military or usurped power, civil war, or acts of terrorism;
- (b) ionizing radiation or contamination by radioactivity from any nuclear waste, from the combustion of nuclear fuel, radioactive toxic explosive, or other hazardous properties of any explosive, nuclear assembly or nuclear component thereof;
- (c) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds;
- (d) natural catastrophe including but not limited to earthquakes, floods, subsidence, and subterranean spontaneous combustion or any operation of the force of nature, lightning and exceptionally inclement weather;
- (e) riot, commotion and disorders, criminal damage, sabotage, strike, lock out, labour unrest or other industrial disturbance (affecting the performance of this Contract) which are not the fault of the Contractor or its personnel, servants or agents or the Government which causes, or can reasonably be expected to cause any party to fail to comply with its obligations;
- (f) pandemic or epidemic; or
- (g) any other unforeseeable event which fulfils the criteria as set forth below:
 - (i) beyond the reasonable control of the Party affected by such event, circumstance or combination of events or circumstances;
 - (ii) which was not foreseeable or, if foreseeable, could not have been prevented or avoided or overcome by the affected Party having taken all reasonable precautions and due care;

- (iii) which directly causes the affected Party to be unable to comply with all or a material part of its obligations under this Contract; and
- (iv) which is not the direct result of a breach by the affected Party of its obligations under this Contract,

PROVIDED THAT an Event of Force Majeure shall not include economic downturn, non-availability of or insufficient of funds or lack of financing on the part of the Contractor to perform its obligations under this Contract.

- 58.2** If an Event of Force Majeure occurs by reason of which either party is unable to perform any of its obligation under this Contract (or for any part thereof), the Party shall inform the other Party immediately of the occurrence of that Event of Force Majeure with full particulars thereof and the consequences thereof.
- 58.3** If either Party considers the Event of Force Majeure to be of such severity or to be continuing for such period of time that it effectively frustrates the original intention of this Contract, then the Parties may agree that this Contract may be terminated upon mutual agreement of the Parties.
- 58.4** If this Contract is terminated by an Event of Force Majeure pursuant to the above clause, all rights and obligations of the Parties under this Contract shall forthwith terminate and neither Party shall have any claim against the other Party and neither Party shall be liable to each other save for any rights and liabilities accruing prior to the occurrence of the Event of Force Majeure.
- 58.5** Neither Party shall be entitled to rely upon the provisions above if both Parties reasonably determine that an Event of Force Majeure has not occurred.
- 58.6** For avoidance of doubt, the Parties shall continue to perform those parts of those obligations not affected, delayed or interrupted by an Event of Force Majeure and such obligations shall, pending the outcome of this clause continue in full force and effect.”

This Addendum No. 6 to the Conditions of Contract P.W.D FORM 203/203A (Rev.1/2010) consisting of 3 pages (including this page) which are and shall be read and construed as part of the said Contract.

Signature of Contractor

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of

Contractor's Seal

Witness

(Name in full)

I.C. No.

Occupation

Address

Signature of Officer

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of
the Government

Official Seal

Witness

(Name in full)

I.C. No.

Designation

Address

**ADDENDUM NO. 6 TO THE CONDITIONS OF CONTRACT
P.W.D FORM 203/203A (Rev.1/2010)**

NO.	AMENDMENTS
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1. Page 44, Clause 67.0

Substitute the whole of Clause 67.0 with the new Clause 67.0 as follows:

67.0 NOTICES

(a) Any notice, approval, consent, request, requirement, permission or other communication required, authorized, permitted or contemplated to be given or made under this Agreement shall be writing in bahasa Melayu or the English language and delivered by registered post or by personal service to the address, transmitted to the facsimile number or to the e-mail address, of the Parties, as the case may be, specified below or to such other address, facsimile number or e-mail address as either Party may have notified the sender. The proof of service of the same shall be deemed to be duly given or made -

- (i) in the case of delivery by registered post, on the third day it is posted to such address;
- (ii) in the case of delivery in person, when delivered to the recipient at such address and an acknowledgement of receipt obtained;
- (iii) in the case of facsimile transmission, when the recipient's facsimile number is shown on the sender's print-out for the transmission regarding the date, time and transmission of all pages; or
- (iv) in the case of e-mail, when it is transmitted without any error message.

To the Government:

Address : **MAJLIS PERBANDARAN KAJANG, MENARA MPKj, JALAN CEMPAKA PUTIH, OFF JALAN SEMENYIH, 43000 KAJANG, SELANGOR DARUL EHSAN**
Tel : **03-87377899 / 1-800-88-6755**
Fax No :
E-mail Address :

To the Company:

Address :
Tel :
Fax No :
E-mail Address :

- (b) It shall be the duty of the Parties, to notify the other, if there is a change of address, facsimile number or e-mail address by giving a written notice

within fourteen (14) days from the change.

- (c) For the avoidance of doubt, the mode of delivery of notice stipulated in the Clause herein shall not apply to notices required to be given under any applicable laws relating to this Agreement.

DOKUMEN MEJA TAWARAN

This Addendum No. 7 to the Conditions of Contract P.W.D FORM 203/203A (Rev.1/2010) consisting of 6 pages (including this page) which are and shall be read and construed as part of the said Contract.

Signature of Contractor

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of

Contractor's Seal

Witness

(Name in full)

I.C. No.

Occupation

Address

.....

Signature of Officer

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf
of the Government

Official Seal

Witness

(Name in full)

I.C. No.

Designation

Address

.....

**ADDENDUM NO.7 TO THE CONDITIONS OF CONTRACT
P.W.D. FORM 203/203A (Rev. 1/2010)**

NO.	AMENDMENTS
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1. Page i, Table of Contents

Substitute item 30.0 in the table of content as follows:

30.0 FLUCTUATION OF PRICE - NON APPLICABLE

2. Page 7, Clause 9.0

Substitute footnote with the new footnote as follows:

9.0 REPRESENTATIONS, WARRANTIES AND UNDERTAKINGS OF THE CONTRACTOR

**applicable only if the Contractor is a company registered under the Companies Act 2016*

3. Page 16, Clause 23.0

Substitute the Clause 23.3 with the new Clause 23.3 as follows:

23.0 EMPLOYMENT OF WORKMEN

23.3 Days and Hours of Working

No work shall be done on:

- (a) the weekly day of rest;
- (b) any public holiday which is recognised in the state where this Contract is being carried out; or
- (c) between the hours of six in the evening and six in the following morning;

Without the written permission of the S.O. PROVIDED THAT when such written application of the Contractor is approved by the S.O., the Contractor shall comply fully with all the requirements of the Employment Act 1955 in regard thereto or any subsequent modification or re-enactment thereof and shall bear any costs for compliance therewith, and any extra costs incurred by the Government in connection with the supervision of the Works

4. Page 19, Clause 26.0

Substitute the Clause 26.4 with the new Clause 26.4 as follows:

26.0 BILL OF QUANTITIES

Standard Method of Measurement

- 26.4 The Bills of Quantities, unless otherwise expressly stated in respect of any specified item or items, shall be deemed to have been prepared in accordance with the principles of the Standard Method of Measurement of Building Works as published by the Royal Institution of Surveyors Malaysia or Civil Engineering Method of Measurement published by Institution of Civil Engineers (London) or Method of Measurement as set out in Bill of Quantities.

5. Page 21, Clause 30.0

Substitute the whole of Clause 30.0 with the new Clause 30.0 as follows:

30.0 FLUCTUATION OF PRICE (NON APPLICABLE)

6. Page 24, Clause 38.0

Substitute the Clause 38.4 with the new Clause 38.4 as follows:

38.0 POSSESSION OF SITE

- 38.4 In the event of any delay in giving possession of the Site from the "Date for Possession" as stated in the Letter of Acceptance or delay in giving any section or part of the Site as provided in clause 38.3, the S.O. may issue instructions in regard to the revision of the "Date for Possession"

and the "Date for Completion" shall be appropriately revised under clause 43.1(g) hereof, but the Contractor shall not be entitled to claim for any loss or damage caused by such delay in giving possession of the Site, nor shall he be entitled to terminate this Contract.

7. Page 27, Clause 42.0

Substitute the Clause 42.1 with the new Clause 42.1 as follows:

42.0 PARTIAL OCCUPATION / TAKING OVER BY GOVERNMENT

- 42.1 If at any time before the whole of the Works have reached practical completion pursuant to clause 39, the Government with the consent of the Contractor (which consent shall not be unreasonably withheld) shall take possession of and occupy any part or parts of the same (any such part being hereinafter in this clause referred to as 'the relevant part'), notwithstanding anything expressed or implied elsewhere in this Contract.

8. Page 43 , Clause 66.0

Substitute the Clause 66.3 with the new Clause 66.3 as follows:

66.0 ARBITRATION

66.3 If the Parties -

- (a) fails to receive a decision from the officer named in the Appendix within forty-five (45) days after being requested to do so; or

- (b) is dissatisfied with any decision of the officer named in the Appendix,

then such dispute or difference shall be referred to arbitration within forty-five (45) days to an arbitrator to be agreed between the Parties and failing such agreement, to be appointed by the Director Asian International Arbitration Centre (Malaysia) of the for arbitration in Kuala Lumpur on the application of either Party hereto. Such arbitration shall be heard at the Asian International Arbitration Centre (Malaysia) and shall be conducted in accordance with the rules for arbitration of the Asian International Arbitration Centre (Malaysia) using the facilities and the system available at the Centre.

Substitute the Clause 66.9 with the new Clause 66.9 as follows:

- 66.9 In the event of the death of the arbitrator or his unwillingness or inability to act, then the Government and the Contractor upon agreement shall appoint another person to act as the arbitrator, and in the event the Government and the Contractor fail to agree on the appointment of an arbitrator, an arbitrator shall be appointed by the Director of the Asian International Arbitration Centre (Malaysia) in Kuala Lumpur.

9. Page 46, Clause 71.0

Substitute the Clause 71.2 with the new Clause 71.20 as follows:

71.0 CONFIDENTIALITY

- 71.2 Where information has been disclosed to third parties pursuant to clause 71.1, the Contractor undertakes to ensure that such third parties shall not disclose the information to any other third party.

10. Page 48, Clause 80.0

Substitute the Clause 80.1 and 80.2 with the new Clause 80.1 and 80.2 as follows:

80.0 RESTRICTION AND PROCEDURE ON USE OF IMPORTED MATERIALS AND GOODS

- 80.1 The Contractor shall use local goods/materials as listed in the 'Senarai Bahan/Barangan Buatan Tempatan' issued by IKRAM QA Services Sdn. Bhd. and/or issued by SIRIM QAS International Sdn. Bhd., whichever is relevant. If the Contractor fails to comply with this requirement, the Government may reject the goods/materials which are found to be not in compliance with this requirement.
- 80.2 For local goods/materials not listed as aforesaid, such goods/materials may be allowed if prior testing and certification from IKRAM QA Services Sdn. Bhd. or SIRIM QAS International Sdn. Bhd., whichever is relevant, has been obtained. Where such testing cannot be carried out by IKRAM QA Services Sdn. Bhd. or SIRIM QAS International Sdn. Bhd. the Contractor may, with the S.O.'s prior approval, have the testing to be done by another agency.

11. Page 50, Signing page

Substitute footnote with the new footnote as follows:

¹applicable only if the Contractor is a company registered under the Companies Act 2016

DOKUMEN MEJA TAWARAN

This Addendum No. 8 to the Conditions of Contract P.W.D FORM 203/203A (Rev.1/2010) consisting of 2 pages (including this page) which are and shall be read and construed as part of the said Contract.

Signature of Contractor

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of

Contractor's Seal

Witness

(Name in full)

I.C. No.

Occupation

Address

Signature of Officer

(Name in full)

I.C. No.

In the capacity of

Duly authorised to sign and on behalf of
the Government

Official Seal

Witness

(Name in full)

I.C. No.

Designation

Address

APPENDIX TO THE CONDITIONS OF CONTRACT

Clause

4.1(a) Officer(s) empowered to approve variations according to the limits as set out in Treasury's Circular as amended.

Financial Limits	Officer
a) Original Contract sum not exceeding RM10 mil. And accumulative V.O. amount not exceeding 10% of the contract sum OR original contract sum exceeding RM10 mil. And V.O. amount not exceeding RM 1 mil.	A committee chaired by Yang Dipertua MPKj
b) Original Contract sum not exceeding RM20 mil. And accumulative V.O. amount not exceeding 20% of the contract sum OR original contract sum exceeding RM20 mil. And V.O. amount not exceeding RM 1 mil.	'Lembaga Perolehan Agensi'
c) All other cases.	'Ketua Setiausaha Perbendaharaan' or Financial officer of applicable state

4.1(b) Officer(s) empowered to take Action on behalf of the Government in respect of :

Clauses 51,52,53, 58 and 66.....

Yang Dipertua MPKj

13 Performance Bond

Amount of Guarantee RM 5% of Contract Sum

Guarantor Bank/Insurance Company/
Finance Company

Guarantee No.

15 Minimum insurance cover for any one accident or series of accidents arising out of one event.. RM.....

Policy No. To be submitted by the Contractor

Period of insurance Contract Period + DLP Period + 14 Days + 3 Month

15.1 (b) Amount of excess..... RM To be borne by the Contractor

SYARAT-SYARAT KHAS TERHADAP KONTRAK

SPECIAL PROVISIONS TO THE CONDITIONS OF CONTRACT ON-SITE TRAINING PROGRAMME

1. The Contractor shall provide on the job training at his work site based on the on-site training programme under the Manpower Department (hereinafter referred to as the "On-site Training Programme") for a minimum of five trainees who will be made available by the Manpower Department for a period of not less than 3 months. The On-site Training Programme shall be enforced and supervised by the Manpower Department.
2. The Contractor shall be efficiently train the trainees in concreting, bricklaying (including masonry works) carpentry tile fixing and such other trades which the Manpower Department may required.
3.
 - a) Upon the receipt of the letter of Acceptance of tender, the Contractor shall Liaise with the Manpower and recruitment of the trainees.
 - b) In the event of the Manpower Department being unable to furnish the required number or any trainees, the Contractor shall produce to the Superintending Officer a certificate or letter signed by or on behalf of the Director-General of the Director General of the Manpower Department to the effect that there are insufficient or no trainees available for recruitment.
4.
 - a) Upon recruitment the trainees shall be deemed to be workmen employed by the contractor and the Contractor shall pay wages and allowances commensurate to that of apprentice tradesman of the particular trade and provide all other benefits under the Employment Ordinance 1955, Employment (Restriction) Act, 1968, Employee's Provident Fund Ordinance 1951, Workmen's Compensation Legislation, Employee's Social Security Act 1969 and any other laws relating to the employment of workmen.
 - b) The Contractor shall be liable and responsible for the acts and negligence of the trainees. If any trainee misconduct himself the Contractor shall at once inform the Manpower Department.
5. The Contractor shall provide a skilled workmen (or foreman) to assist, guide and train the trainees in each of the respective trade.
6.
 - a) Upon satisfactory completion of the On-site Training Programme in accordance the Special Provisions, the Contractor shall be eligible for the following subsidies and benefits:
 - i) Double deductions as Income Tax Relief on wages paid to trainees for a maximum period of 3 months.
 - ii) A subsidy of RM35.00 per day for employing a skilled workman (foreman) to assist, guide and train the trainees.
 - b) The Contractor shall submit claims for the above mentioned subsidies and Benefits stated in paragraph 6(a) to a Manpower Department (Ministry of Labour and Manpower), for consideration and payment.

SPECIAL PROVISIONS TO THE CONDITIONS OF CONTRACT (PWD 203/203A) PERFORMANCE BOND IN THE FORM OF GUARANTEE SUM

1. For the due observance and performance of this contract the Contractor may opt for performance Bond in the form of performance Guarantee Sum in lieu of cash, Treasury's Deposit, Banker's Draft, Banker's or Insurance Guarantee as stipulated under Clause 37 of the Conditions of Contract, if the Contractor opts for Performance Bond in the form of performance Guarantee Sum, the relevant clauses under the Conditions of Contract shall be deemed and agreed to have amended as follows:

a) Performance Bond

- (a) Replace clauses 37(a) with the following clauses:

The Contractor shall allow deductions of ten percent (10%) from interim payments until the total amount deducted aggregate to a sum equivalent to five percent (5%) of the original Contract Sum for the due observance and performance of this contract.

- (ii) Delete clause 37(b)

b) Possession Of Site

- (i) Replace clause 38(a) with the following clause:

No work on this Contract shall be commenced unless and until such insurance policies as specified under Clauses 33,34, and 36 hereof, shall have been deposited with the Government or the S.O. provided that for the purposes if this Condition only (but for no other), if the Contractor shall produce to the Government or the S.O. the Cover Notes of the said insurance policies and the receipts of premium paid, it shall be a sufficient discharge of his obligations under this Condition.

c) Partial Occupation by Government

- (b) Replace sub-clause 42(f) with the following:

It is expressly agreed that nothing contained the preceeding paragraphs shall entitle the Contractor to the release of the Performance Bond or any part thereof the Indention being that the said Performance Bond or any part thereof shall be released of refunded only upon the completion of making good all defects, imperfections, shrinkages or other faults which may appear during the Defect Liability Period and upon the giving of the Certificates of Completion of Making Period and upon the giving of the Certificates of Making Good Defects for the whole of the Works under Clause 45 hereof.

SPECIAL PROVISIONS TO THE CONDITIONS OF CONTRACT (PWD 203/203A) PERFORMANCE BOND IN THE FORM OF GUARANTEE SUM (Cont'd)

d) Payment to Contractor and Interim Certificate

(ii) Replace sub-clause 47(b) with the following:

Which fourteen (14) days from the date of any such valuation being made and subject to the provision mentioned in subclause (a) above, the S.O shall issue an Interim Certificate stating amount due to the Contractor from the Government. Provide that the signing of this Contract shall not be a condition precedent for the issue of the first Interim Certificate (and other) so long as the Contractor has returned the Letter of Acceptance of Tender duly signed and has deposited with the S.O or the Government the relevant insurance policies under Clauses 33,34 and 36 hereof.

(iii) Sub-clause 47(d)

Item No.20 in Addendum No.2 to the Conditions of Contract PWD 203/203A* Rev.10/83 is to be replaced with new item 20 as follows:

20. Substitute the whole of the Clause 47(d) with the new Clause 47(d) as follows:

With a number of days as stated in the Appendix to these Conditions (or if none so stated then within thirty (30) days) of the issue of any such Interim Certificate as aforesaid the Government shall make a payment to the Contractor with the remaining ten percent (10%) being retained as a Performance Guarantee Sum. Provided that when the sum retained amount in the aggregate to a sum equivalent to five percent (5%) of the original Contract Sum then in any subsequent certificate, payment shall be made on the full amount certified as due to the Contractor.

RINGKASAN TAWARAN

MAJLIS PERBANDARAN KAJANG

RINGKASAN TAWARAN

Peruntukan bagi pembekalan segala pekerja-pekerja, bahan-bahan, peralatan, loji-loji dan segala keperluan lain untuk:

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG

No Kontrak : **MPKj T3/2025** untuk kerja tersebut di atas.

Dimasukkan pada _____haribulan_____tahun _____ oleh pihak-pihak yang bertandatangan dibawah merujuk kepada Ringkasan Tawaran ini menjadi sebahagian daripada kontrak tersebut dan hendaklah ia dibaca dan diertikan sedemikian.

Contract No : _____ for the abovementioned works.

Entered into on the _____ by the undersigned parties refers to this Summary of Tender which is and shall be read and construed as part of the Contract.

(Tandatangan Kontraktor)

(Tandatangan Pegawai)

Nama Penuh : _____

Nama Penuh : _____

No K.P : _____

Nama Jawatan : _____

Atas Sifat : _____

Untuk dan bagi pihak MPKj

Yang diberikuasa dengan sempurna untuk
Menandatangani untuk dan

(Meteri atau Cop Kontraktor)

Saksi : _____

Saksi : _____

Nama Penuh : _____

Nama Penuh : _____

Pekerjaan : _____

Nama Jawatan : _____

Alamat : _____

Alamat : _____

SENARAI KUANTITI

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SUMMARY OF TENDER

ITEM	FROM PAGE	TOTAL COST (RM)
A PRELIMINARY AND GENERAL CONDITIONS	A/1 - A/49	
B BILL OF QUANTITIES		
BILL NO. 1 - BUILDING WORKS	BQ1/SUM/1	
BILL NO. 2 - EXTERNAL WORKS (ALL PROVISIONAL)	BQ2/SUM/1	
BILL NO. 3 - MECHANICAL AND ELECTRICAL WORKS	SUM ME-1	
BILL NO. 4 - PROVISIONAL SUMS	BQ4/PS/1	164,000.00
TOTAL CARRIED TO FORM OF TENDER :		

CONTRACTOR

OFFICIAL STAMP :

SIGNATURE :

NAME IN FULL :

CAPACITY :

DATE :

SST REGISTRATION NO.

WITNESS

SIGNATURE :

NAME IN FULL :

CAPACITY :

DATE :

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY	
1.1	<p><u>Preliminary Items</u></p> <p>The Preliminary Items as set out hereunder are deemed to apply to the whole of the Works all as shown on the Drawings and/or described in this Document and the Contractor shall allow for complying with the same and for any cost in connection therewith.</p> <p>The Contractor is required to insert the cost amounts in the monetary columns against such Items/Clauses of the Preliminaries and General Conditions of Contract where such Items/Clauses are of monetary significance to the Contractor.</p> <p>Each Item/Clause shall be individually priced in INK. Bulk pricing for sections, trades, groups or pages of Items/Clauses shall not be accepted and no subsequent claims for loss of expense and/or profit shall be entertained for failure to comply with this Clause.</p> <p>Where any Items/Clauses is left unpriced, it shall be deemed that the cost of such Items/Clauses have been allowed for elsewhere within the Tender and no subsequent claims arising such unpriced Items/Clauses shall be entertained.</p> <p>The S.O. shall reserve the right to request from the Contractor the detailed breakdown of the pricing for Items/Clauses for examination and approval. The approved detailed breakdown pricing of which shall then be used as a basis for the preparation of monthly interim valuation.</p> <p>Should the Contractor fails to submit the detailed breakdown of the pricing of Items/Clauses to the S.O. after adequate notice have been given, the S.O. shall reserve the right to determine a value for such affected Items/Clauses and no claims and/or disputes whatsoever arising thereof shall be entertained.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY (Cont'd)	
1.2	<p><u>Definitions</u></p> <p>"Superintending Officer [S.O.] " - shall mean "Yang Dipertua MPKj"</p> <p>"Government - shall mean Majlis Perbandaran Kajang"</p> <p>"Contractor" - shall mean the person or persons, firm or company referred to as such in the Articles of Agreement and shall include his or it's heirs, personal representatives, successors and permitted assigns.</p> <p>"Contract" - shall mean the Work executed between the MPKj and the Contractor together with the documents forming part thereof and as in the Form of Contract.</p> <p>"Day" - shall mean calendar day.</p> <p>"Week" - shall mean calendar week.</p> <p>"Month" - shall mean calendar month.</p> <p>"Approved, Selected, Directed or Instructed" - shall mean to be approved, selected, directed or instructed in writing by the S.O. and as in the Form of Contract.</p> <p>Throughout this Tender Document, the following abbreviations have been used :-</p> <p>M - Linear Metre</p> <p>No. - Number</p> <p>M2 - Square Metre</p> <p>M3 - Cubic Metre</p> <p>MS - Malaysian Standard</p> <p>KG - Kilogramme</p> <p>PR - Pair</p> <p>LS - Lump Sum</p> <p>B.S. - The latest standard for a particular building material or component issued by British Standards Institution, 2, Park Street, London, W.1, England</p> <p>C.P. - The latest British Standard Code of (B.S.) Practice issued by the Council for Codes of Practice, British Standards Institution, 2, Park Street, London, W.1, England.</p> <p>S.W.G. - Imperial Standard Wire Gauge.</p> <p>GAUGE - Imperial Standard Wire Gauge.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY (Cont'd)	
1.2	<p>Definitions (Cont'd)</p> <p>The following Conventions shall be adopted for these documents:-</p> <p>Wherever the terms "Superintending Officer" appears in the Contract Documents, it shall mean " Yang Dipertua MPKj and/or his successor in office" in the Conditions of Contract and vice versa.</p> <p>Wherever the terms "approved", "direct" or "selected" appears in the Contract Documents will mean the approval, direction or selection by the Superintending Officer. Wherever the term "allowed" appears in the Contract Documents, excepts with reference to P.C. or Provisional Sums or quantities, the cost of the item will be at the risk of the Contractor.</p> <p>Wherever the phrase "as directed" or "under the direction of the Superintending Officer" appears in the contract Documents it shall mean " as the Contractor shall propose and as the Superintending Officer shall approved"</p> <p>Where the Contractor is required under the terms of this Contract to maintain temporary works including providing measures, facilities and buildings, such maintenance will apply from Date of Possession until the issue of the Certificate of Practical Completion of the Works or when directed by the Superintending Officer that such maintenance is no longer the responsibility of the Contractor, the date for such decision not being unreasonable.</p> <p>The term " Current Issue" will mean the latest issue or edition at the date of Tender</p> <p>The term "The Authorities" will be held to include for all Government, Quasi-Government, Local Authorities or Departments and utility companies which has jurisdiction over any section of the works.</p> <p>Wherever the phrase "in accordance with the manufacturer's instructions" appears in the Contract Documents, the Contractor will be held to have consulted the said manufacturer's latest publications and to have allowed in his, the Contractor's Tender for complying with all instructions, directions and recommendation contained therein.</p> <p>Wherever the terms "making good" appear in the Contract Documents, such making good will be at the Contractor's expense and is to be executed to the entire satisfaction of the Superintending Officer</p> <p>Wherever the phrase "cart (carting) (remove) off the Site" appears in the Contract Documents, such carting etc., will be held to include for carting materials and goods to dumps to be found by the Contractor, depositing materials and goods thereon, and for paying all charges.</p> <p>The works "as described" and "as specified" where used in these Bills of Quantities mean as described and specified in detail in the Specification.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY (Cont'd)	
1.2	<u>Definitions</u> (Cont'd) <u>Abbreviations</u> <p>The following abbreviations appearing in these Bills of Quantities and all documents, have their meanings as assigned against them:</p> <p>B.S. - British Standards Specification as issued by the British Standards House, London (The latest amendment).</p> <p>C.P. - British Standard Code of Practice issued by the Council for Code of Practice in Great Britain (The latest amendment).</p> <p>M.S. - Malaysian Standard as issued by the Standard & Industrial Research Institute of Malaysia (The latest amendment).</p> <p>S.O. - Superintending Officer</p> <p>JKR/ PWD - Jabatan Kerja Raya/ Public Works Department</p> <p>MPKj - Majlis Perbandaran Kajang</p>	
1.3	<u>Discrepancies in Contract Document</u> <p>The Contract Documents are to be taken as mutually explanatory of one another and in case of any discrepancy or inconsistency of the following general rules shall apply:</p> <p>-The Conditions of Contract (Form P.W.D 203A Rev.1/ 2010) including addendum shall take preference over all other documents.</p> <p>-Special Provisions to Conditions of Contract shall take preference over Condition of Contract</p> <p>-The Addendum Specification shall be preferred to the General Specification and Drawings</p> <p>-In Drawings, large scale details are to take preference over small details</p> <p>-The Specifications and Drawings shall take preference over priced Bills of Quantities,</p> <p>-Any discrepancy shall be referred or notified in writing as soon as possible to the S.O. to obtain a ruling.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY (Cont'd)	
1.4	<p><u>Pricing of Bills of Quantities</u></p> <p>The Bills of Quantities are to be priced in Malaysian currency i.e. Ringgit Malaysia and sen. Pricing shall be in INK throughout. The sum of the amounts of all items of the Bills of Quantities priced by the tenderer shall truly represent the amount shown in his tender. The rates set down by the Tenderer against each item in the Bills of Quantities shall be the full inclusive rates and prices for the finished work (unless expressly provided to the contrary) and shall be held to include providing and delivering all materials, unloading, cutting and waste on materials, storage, packing, carriage and cartage, hoisting, all labour, setting, fitting and fixing in position, use of plant, providing suspension, establishment charges, profit and all other labour and everything else necessary for the due and proper completion of each item</p> <p>Where the tenderer leaves any item blank in the preliminaries or insert only a dash (-) against any item in these Bills of Quantities the value thereof shall be deemed to be included in the prices or rates of other items therein</p> <p>No unauthorised alteration, addition or note entered in these Bills of Quantities shall modify the printed text</p> <p>Headings and notes appearing shall not by itself be deemed to be comprehensive and do not modify the meaning of the items in the Bills of Quantities</p> <p>Any rates found to be overpriced, inconsistently priced, under priced or erroneously priced shall be subjected to adjustment and rectification before the signing of the contract and the authority to fix a reasonable rates/ amount shall be with the S.O and the amended rates shall be used for computing the progress payments and the measuring of variations</p> <p>Where Quantities in these Bills of Quantities are marked provisional, the works shall be remeasured on completion basing on drawings certified as true and correct representation of the completed works by the Superintending Officer</p> <p>The requirement of the Measurement Amplification and Pricing Factors (SEKSYEN III - BAHAGIAN D) are to be taken into account when pricing these Bills of Quantities</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY (Cont'd)	
1.5	<p><u>Tender Table Document</u></p> <p>Tender Table Document may be inspected during office hours as stated in the tender advertisement up to time of closing tender at the following address:</p> <p>Bahagian Pengurusan Kontrak & Ukur Bahan Jabatan Khidmat Pengurusan Tingkat 4, Menara MPKj Jalan Cempaka Putih Off Jalan Semenyih 43000 Kajang, Selangor Darul Ehsan</p> <p>It shall be the sole responsibility of the Tenderer to scrutinise the Tender Documents supplied to him and to satisfy himself that they are exact copies as included in the Tender Table Documents. Should any discrepancy be found between any such copy supplied to the Tenderer, it shall be the sole responsibility of the Tenderer to apply to the the above to have such discrepancy rectified before the closing date of tender.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY (Cont'd)	
1.6	<p><u>Access and Visit to Site</u></p> <p>The Contractor shall be deemed to have examined the Tender Table Documents and visited the site and to have ascertained the nature, character and extent of the works, local conditions, accessibility of site, the supply of and conditions affecting labour and materials and any other matters affecting this contract.</p> <p>Prior to his Construction the Contractor shall give full details of his proposed route, construction etc. and shall only proceed to construct his alternative access after written approval by the S.O. The Contractor shall comply to the conditions attached to such approval by the S.O. and to any other future and additional conditions that may be stipulated by the S.O.</p> <p>The Contractor shall be entirely responsible as to the sufficiency, safety and convenience of his own access road and that the grant of approval by the S.O. shall in no way bind the S.O. to any liability with respect to claims or changes by any parties suffering loss or injury arising from the Contractor's own access road. In the event that the the Government provide a main common access road the Contractor is given permission but the above provisions will equally apply to this common access road.</p> <p>Upon possession of the work site and before commencement of work, the Contractor shall in the presence of S.O. and Consultants, take record photographs and written notes of the formation levels, the adjoining roads, roadside drains and drain walls where applicable and provide at no cost, one copy each of all record photographs and notes to the S.O. and Consultants.</p> <p>The Contractor in addition to the foregoing paragraphs shall, comply to these general provision in the execution of his works :-</p> <p>a) Liase and coordinate his works with the other Contractors and take all necessary precaution to reduce disturbance either from causes arising from his own oversight or those caused by other Contractors in the execution of their Works.</p> <p>b) Protect, uphold, maintain in good condition and make good all disturbed work previously or concurrently executed by other Contractors arising from the execution of his works.</p> <p>c) The Contractor shall observe and comply with any regulation governing the loading/unloading of or waiting by vehicle on public roads, highways and the like including the carriage or any materials, protective coverings, warning displays etc., and to pay for all costs invovled.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
A	GENERALLY (Cont'd)	
1.7	<p><u>Press Statements</u></p> <p>The Contractor, his workmen or agents shall not make any public or press statements of any form or description which are exasperative and detrimental to the interests of the MPKj, Supervisory staff or any Consultants connected with this Contract nor shall they divulge any information to the public concerning this Contract before or after the completion of the work.</p>	
1.8	<p><u>Law, Regulation And Requirements</u></p> <p>The Contractor shall comply to Part VIII of the Lembaga Pembangunan Industri Pembinaan Malaysia Act 1994 and the Construction Industry (Levy Collection) Regulations 1996, and shall submit a notification on Form CIDB L1/96 to the Lembaga not later than 14 days after the issuance of the Letter of Acceptance / Letter of Award / or any document that constitutes acceptance of a contract of works, or not less than 14 days before the commencement of the works, whichever date is earlier.</p> <p>The Contractor is responsible to pay the levy imposed by LPIPM.</p> <p>The Contractor shall pay all fees and charges for approval, permits and licences imposed by Local Authority or other related Authorities in carrying out the Works. In the event the Contractor fails to adhere to any regulations imposed by the Authorities resulting to the liquidation of the payment made by the Authorities, the Contractor shall pay any new payment deposits and any penalties.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	FORM OF CONTRACT	
1.1	<p><u>General</u></p> <p>The form of Contract which the Contractor shall be required to enter into in connection with this project shall be the P.W.D. Form 203A (Rev. 1/2010) where Bills Of Quantities Form Part Of The Contract</p> <p>Amendments and/or additional clauses as required by the Government have been inserted therein and can be observed as appearance thereafter following the Standard Form of Contract. The Contractor shall be deemed to have read through and studied the implications of such amended and/or added clauses as well as any implications as appearing herein following.</p> <p>A summary of the clauses as appearing in the Standard Form of Contract and any amendments and/or additional clauses, together with the summarized implications as scheduled herein following to remind and allow the cost consequence to him. In view of this, the Contractor is to note that the conjunction with the amendments and/or added clauses as well as any implications as appearing herein following.</p> <p>In the event of conflicting and/or contradictory interpretations arising between the Conditions and Contract appearing in the Standard Form of Contract, and those of the Specification, the Contractor is to note that the conditions of the Form of Contract shall take precedence with Contract as appearing in the Preliminary shall take precedence with regard to specific contractual interpretations related directly to or required for the Works.</p> <p>1.2 <u>Standard Form Of Contract</u></p> <p><u>Special Provision to The Conditions of Contract</u></p> <p><u>The Contractor's attention is drawn to the Special Provision To The Conditions of Contract for :</u></p> <ul style="list-style-type: none"> - On-site Training Programme - Restriction and Procedure on Use of Imported Goods 	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	FORM OF CONTRACT	
	<u>Standard Form Of Contract (Cont'd)</u>	
1.3	<u>Scope of Contract</u> The works included in this Contract comprise generally the construction and completion of the following works. The scope of works may include but not necessarily be limited to the following :- <u>The buildings to be demolish and remove all existing strucutre and substructure are as follows:</u> (a) One (1) No. Dewan; 1 storey <u>The buildings to be constructed and completed are as follows:</u> (a) One (1) No. Dewan; 1 storey <u>External Works comprising:</u> (a) Site Clearance & Earthworks (b) Turfing (c) Road and carpark (d) Fencing and Gates (e) Surface Water Drainage (f) Sewerage (g) Water Reticulation (h) Retaining Wall (j) Guard House, Toilet and Refuse Compartment (k) Pump House (l) Aircooled Chiller & RC Plinth For Bomba Tank <u>Provisional Sums Works comprising:</u> (a) External And Internal Signages (b) Utility Cost Provisional Sums in Bill No.4 allowed shall be expended, omitted or varied on the instruction of the Superintending Officer. <u>Mechanical and Electrical Works</u> (a) Cold Water Supply & Rain Water Harvesting System (b) Sanitary Plumbing Installation (c) Airconditioning & Mechanical Ventilation System (d) Fire Protection System (e) Lift Installation (f) External Electrical System (g) Internal Electrical System (h) Closed Circuit Television (CCTV) System (h) Sound Reinforcement System (j) Audio Visual System	
1.4	<u>Location of Site</u> The site for the proposed Works is located at Seksyen 2, Bandar Baru Bangi, Mukim Kajang, Daerah Hulu Langat, Selangor Darul Ehsan and the access to the Site shall be from Kajang.	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	FORM OF CONTRACT	
	<u>Standard Form Of Contract (Cont'd)</u>	
1.5	<p><u>Conditions Of Contract</u></p> <p>The Contractor shall refer to the Standard Form of Contract for full information and the number and titles of the Clauses together with any additional information are given below and the Contractor is to allow here or in his rates for all expenses involved in complying with the terms of these Clauses.</p> <p>Clause No. 1 - Definitions and Interpretation</p> <p>Clause No. 2 - Contract Period</p> <p>Clause No. 3 - The S.O. and S.O.'s Representative</p> <p>Clause No. 4 - S.O.'s Right to take Action Refer also to Clause 4(4.1)(a) and 4(4.1)(b) in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 5 - S.O.'s Instructions</p> <p>Clause No. 6 - Scope of Contract</p> <p>Clause No. 7 - Contract Sum</p> <p>Clause No. 8 - Contract Documents</p> <p>The Contractor shall bear the costs for additional copies of documents required by him over and above the number of copies stipulated in this Clause</p> <p>Clause No. 9 - Representations, Warranties and Undertakings of the Contractor</p> <p>Clause No. 10 - Obligations of the Contractor</p> <p>Clause No. 11 - Inspection of Site</p> <p>Clause No. 12 - Programme of Work</p> <p>Clause No. 13 - Performance Bond / Performance Guarantee Sum</p> <p>Refer also to Clause 13 in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p><u>For due observance and performance of this Contract, the Contractor shall opt for either:-</u></p> <p>a) Performance Bond in the form of approved Bank or Insurance Guarantee; OR</p> <p>b) Performance Bond in the form of Performance Guarantee Sum</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 14 - Indemnity in Respect of Personal Injuries and Damage to Property</p> <p>Clause No. 15 - Insurance Against Personal Injuries and Damage to Property</p> <p>Refer also to Clause 15 and 15.1(b) in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 16 - Indemnities to Government in Respect of Claims by Workmen</p> <p>Clause No. 17 - Employee's Sosial ACT, 1969</p> <p>Notwithstanding anything to the contrary contained elsewhere in the Contract Documents, the Contractor shall cause all Sub-contractors whether nominated or otherwise to comply with the requirements of the Employees Social Security Act, 1969 as described under Clause 17 of the Conditions of Contract. The Contractor shall be responsible to submit to the S.O., whether demanded or not, the Employer's Code Numbers of the Sub-contractors and Social Security Numbers, or copies of Form 2 or Form 3 if the Social Security Numbers are not yet available, of all 'employees' employed by them. Refer also to Clause 17 in the APPENDIX TO THE CONDITIONS OF CONTRACT.</p> <p>Clause No. 18 - Insurance of Works</p> <p>Refer also to Clause 18 and 18(b) in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 19 - Setting Out</p> <p>Immediately after taking possession of the site and before commencing work, the Contractor shall employ a licenced surveyor to check the actual levels and dimensions against those shown on the drawings and in the event of any discrepancy, shall immediately notify the S.O.</p> <p>The Contractor shall be responsible for and shall entirely at his own cost amend any errors arising from his own inaccurate setting out.</p> <p>Clause No. 20 - Unfixed Materials and Good</p> <p>Clause No. 21 - Compliance with the Law</p> <p>Clause No. 22 - Design</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 23 - Employment of Workmen</p> <p>Clause No. 24 - Variations</p> <p>Clause No. 25 - Valuation of Variation</p> <p>Clause No. 26 - Bills of Quantities</p> <p>Clause No. 27 - Measurements of Works</p> <p>Clause No. 28 - Payment to Contractor and Interim Certificates</p> <p>Refer also to Clause 28.1, 28.2 and 28.6 in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 29 - Adjustment of Contract Sum</p> <p>Clause No. 30 - Fluctuation of Price</p> <p>Clause No. 31 - Final Account and Payment Certificates</p> <p>Clause No. 32 - Effect of S.O.'s Certificates</p> <p>Clause No. 33 - Deduction from Money due to Contractor</p> <p>Clause No. 34 - Prime Cost / Provisional Sums</p> <p>Refer also to Clause 34.4 in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 35 - Materials, Goods and Workmanship</p> <p>Materials and workmanship are to be the best of their respective kinds and by "best" shall be understood that no superior class of specified materials or workmanship is available in Malaysia</p> <p>Materials and Workmanship shall comply with the British Standard and Codes of Practice wherever applicable and shall be approved by the S.O. The Contractor is not to alter or amend any of the descriptions of materials in these Bills of Quantities and except where expressly provided to the contrary, any offers of alternative materials will render the tender liable to disqualifications. Wherever in these Bills of Quantities any goods or materials are specified such are to be considered as being the minimum standard acceptable. In the event of the S.O. allowing the substitution of any of the materials during the course of the Contract, such substitution shall be accompanied by a corresponding deduction in cost unless the S.O. otherwise directs</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 35 - Materials, Goods and Workmanship (Cont'd)</p> <p>The materials of Malaysia Origin and/or locally manufactured materials shall be used by the Contractor to the exclusion of imported materials and he shall allow for this special requirement in his tender. The locally manufactured materials are as listed in the 'Senarai Bahan-bahan Binaan Tempatan', issued by Kumpulan IKRAM Sdn Bhd. (Formerly known as IKRAM) or those which comply with the relevant Malaysian Standard. Other local materials shall be tested and certified by Kumpulan IKRAM Sdn Bhd for civil engineering materials or approved by the S.O. or S.O.'s Representative for other materials before they can be accepted for use in the Works by the S.O. Testing and certification by other testing body may be allowed with the S.O.'s approval. If the Contractor fails to comply with this requirement, the materials supplied shall be rejected and disciplinary action shall be imposed upon the Contractor.</p> <p>The Contractor shall place his orders for specified materials at the earliest possible date after notification of acceptance of tender or at such times as may be specifically stated elsewhere herein for any particular materials.</p> <p>The Bills of Quantities shall not be used as the basis for ordering any materials</p> <p>If the Contractor fails for any reason to supply any materials which he has contracted to supply or if he fails to supply any such materials in sufficient time to enable the Contract to be completed by the date fixed for completion, then in either event the Employer may supply any portion of all such materials. If the Employer supplies such materials, the cost in respect thereof which shall be borne by the Contractor shall be:- EITHER The current market rates OR The actual cost to the MPKJ at the date of supply, plus 25% for overheads and other charges. WHICHEVER IS THE GREATER.</p> <p>The cost to be borne by the Contractor as detailed above shall be deducted from any money due or to become due to the Contractor under this Contract and the Contract Sum shall be adjusted accordingly; provided that any variation order issued by virtue of this clause shall not be taken into account when computing the final amount of this Contract and no claim for loss of profit under clause 13 of the conditions of Contract shall be deemed to have arisen. No action by the S.O. under this clause shall be deemed in any way to affect or modify the right of the employer to claim or damages in the event of the Contractor's failure to complete the Works by the date fixed for completion.</p> <p>All costs of instruments, machines, materials sampling, transportation and works for the testing of samples and completed works as required and specified and directed by S.O. shall be borne by the Contractor. The Contractor shall be responsible for getting all materials including water, electricity, etc. for the test to be carried out in the manner and within the time as required and specified in the Contract.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 35 - Materials, Goods and Workmanship (Cont'd)</p> <p>Where the supply of electricity, water, etc for test runs and/or maintenance purpose are obtainable from Government sources, the Contractor must obtain the approval of the S.O. and supply adequate meters and undertake to pay off the used electricity, water, etc.</p> <p>The successful Contractor's attention is also drawn to the provision that the importation of mild steel bars is subject to Customs Prohibitive Order (Import). Approval of import licences from the Ministry of Commerce and Industry must be obtained before placing orders with overseas manufacturers and the Contractor shall be solely responsible for complying with this procedure.</p> <p>Clause No. 36 - Inspection and Testing of Materials, Goods and Equipment</p> <p>Clause No. 37 - Constructional Plant, Equipment, Vehicles and Machineries</p> <p>Clause No. 38 - Possession of Site</p> <p>Refer also to Clause 38.2 in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 39 - Completion of Works</p> <p>Refer also to Clause 39 in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 40 - Damages for Non - Completion</p> <p>Refer also to Clause 40 in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 41 - Sectional Completion</p> <p>Clause No. 42 - Partial Occupation / Taking Over by Government</p> <p>Clause No. 43 - Delay and Extension of Time</p> <p>Clause No. 44 - Claims for Loss and Expense</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 45 - Investigation by the Government and other Persons in Case of Accident, Failure or other Event</p> <p>Clause No. 46 - Access for Works etc</p> <p>Clause No. 47 - Sub-Contract or Assignment</p> <p>Where the Contractor proposes to sub-contract any portion of the Work, the written consent of the S.O. shall not be given where the proposed sub-contractor is not himself a Contractor registered with the Pust Khidmat Kontraktor in the class eligible for similar work up to the value of the proposed sub-contract work unless otherwise specified herein.</p> <p>Clause No. 48 - Defects After Completion</p> <p>Refer also to Clause 48.1 in the APPENDIX TO THE CONDITIONS OF CONTRACT</p> <p>Clause No. 49 - Unfulfilled Obligations</p> <p>Clause No. 50- Suspension of Works</p> <p>Clause No. 51 - Events and Consequences of Default by the Contractor</p> <p>Clause No. 52 - Termination on National Interest</p> <p>Clause No. 53 - Termination on Corruption, Unlawful or Illegal Activities</p> <p>Clause No. 54 - Payments Upon Suspension And Termination On National Interest</p> <p>Clause No. 55 - Events And Consequences of Default By The Government</p> <p>Clause No. 56 - Certificate of Termination Costs</p> <p>Clause No. 57 - Surviving Right</p> <p>Clause No. 58 - Effect of Force Majeure</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 59 - Site Agent and Assistants</p> <p>Notwithstanding anything herein or elsewhere contained, the Contractor shall appoint a Site Agent to provide all necessary superintendence over the whole site operation for the full duration of the Contract and as long thereafter as the S.O. may consider necessary for the proper fulfillment of the Contractor's obligations under the Contract. He must be competent in English and/or Bahasa Malaysia and be a qualified member of the professional group (viz. Engineer, Architect or Quantity Surveyor) having a comprehensive theoretical background, suitable qualification and relevant experience approved by the S.O.</p> <p>The Site Agent must be constantly on the Works and shall devote the whole of his time to the superintendence of the same. Should the S.O. find him unsuitable for any reason whatsoever, the Contractor shall as soon as practicable after receiving such written notice from the S.O. remove the agent from the Site and shall there after employ another to the approval of the S.O.</p> <p>Clause No. 60 - Nominated Sub-Contractors and / or Nominated Suppliers</p> <p>Clause No. 61 - Payment to Nominated or Sub-Contractor or Supplier</p> <p>Clause No. 62 - No Liability of Government to Nominated and / or Sub-Contractor or Supplier</p> <p>Clause No. 63 - Responsibilities of Contractor to Nominated and / or Sub-Contractors or Supplier</p> <p>1) The Contractor shall be fully responsible for all sub-contractors for any delays or damage there by occasioned and shall be responsible for the supervision and administration of all sub-contracts in accordance with the Conditions of Contract and shall be required to schedule the execution of the Work with each of the Nominated Sub-Contractors. The schedule shall be subject to the approval of the S.O.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 63 - Responsibilities of Contractor to Nominated and / or Sub-Contractors or Supplier (Cont'd)</p> <p>2) The Contractor is to price where indicated later in the Bills of Quantities for the following attendance and facilities upon nominated sub-contractors in the execution of the Sub-contract Works:-</p> <p>a) Ascertaining from Nominated Sub-Contractors all particulars relating to their work in regard to sizes of and positions in which chases, holes, mortices etc. are required to be formed or left. The Contractor shall be responsible for any additional cost incurred as a result or any omission on his part in this respect.</p> <p>b) Making good of walls, ceilings, floors, roof etc. and finishes there to including touching up of all paint work necessitated, damaged or disturbed by the Nominated Sub-Contractor's Work</p> <p>c) Supplying all setting out information</p> <p>d) Giving all necessary dimensions and taking responsibility for their accuracy</p> <p>e) Affording free and full use of standing scaffolding whilst it remains erected on the site.</p> <p>f) Affording free and full use of storage accommodation for materials; equipment and plant which are for incorporation into the Works and/or require protection against weather and deterioration, messrooms, sanitary accommodation and welfare facilities.</p> <p>g) Providing SITE SPACE ONLY for Nominated Sub-Contractor's temporary office, workshops, workmen's accommodation and storage of materials, tools, plant and equipment which are not for incorporation into the Works and not requiring protection against weather or deterioration.</p> <p>h) Providing temporary water supply, electrical power supply, artificial lighting paying all fees and charges for fuel, water and electricity consumed.</p> <p>j) Liaising with the relevant supply/service authorities for the expeditious installation of the connections for permanent water and electricity supplies in the Works and making available such supplies to the Nominated Sub-Contractors. Paying on behalf of the Government all fees and charges including deposits for such installation and for water and electricity consumed by the Nominated Sub-Contractor for the test running and commissioning and handling over of the works.</p> <p>k) Protection, covering, watching and taking full responsibility for all Nominated Sub-Contractor's work and unfixed materials and goods intended for use there</p> <p>l) Removing rubbish and debris off the site and cleaning the Works internally and externally.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	<p>FORM OF CONTRACT (Cont'd)</p> <p><u>Standard Form Of Contract (Cont'd)</u></p> <p><u>Clause No. (Cont'd)</u></p> <p>Clause No. 63 - Responsibilities of Contractor to Nominated and / or Sub-Contractors or Supplier (Cont'd)</p> <p>3) The undermentioned items fall within the ambit of nominated Sub-Contractor and he shall include in the Sub-Contract or Sum, inter alia, the cost in connection with the same:-</p> <p>a) Unloading, getting in, storing and all handling and hoisting of his materials, plant and tools into required positions.</p> <p>b) Providing, erecting, maintaining and removing of all his temporary office, workshops and workmen's accommodation including paying all assessment and other charges.</p> <p>c) Connecting to temporary water and power supplies made available by the Contractor for the execution of the works, supplying and running distribution pipes, hoses, cables, leads, electrical gear etc. but EXCLUDING payment for water and electricity consumed.</p> <p>d) Provision of fuel, gas, steam, oil lubricants, chemicals and everything else necessary (other than water and electricity) for the test running and commissioning of the Sub-Contract Works.</p> <p>e) Any scaffolding, staging etc. that are required for the Sub-Contract Works not covered by paragraph (2) (e) above.</p> <p>f) Taking full responsible for any loss or damage to his plant, tools equipment and other property not for use or incorporation in the Sub-Contract Work.</p> <p>g) Where attendance additional to that described above is required in connection with any Sub-Contract Work contained in the Bills of Quantities, such is to be separately price where indicated.</p> <p>4) The words "FIX ONLY" where used in the Bills in connection with any materials or goods supplied by Nominated Suppliers, shall be understood to include :-</p> <p>a) Taking delivery</p> <p>b) Unloading, getting in, storing and protection</p> <p>c) Taking from store and placing in position including all hoisting etc. required.</p> <p>d) Assembling and fixing</p> <p>e) Returning all chargeable packings, carriage paid and recovering all appropriate credits</p> <p>Clause No. 64 - Intellectual Property Right</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
B	FORM OF CONTRACT (Cont'd) <u>Standard Form Of Contract (Cont'd)</u> <u>Clause No. (Cont'd)</u> Clause No. 65 - Antiquities The Contractor shall take reasonable precautions to prevent his workmen or any other persons from removing or damaging fossils, antiquities and other objects of interest discovered on the Site of the Works prior to the S.O.'s instruction as to their disposal. Clause No. 66 - Arbitration Clause No. 67 - Notice, etc. Clause No. 68 - Safety At Site Clause No. 69 - Advance Payment Clause No. 70 - Amendment Clause No. 71 - Confidentiality Clause No. 72 - Stamp Duty Clause No. 73 - Severability Clause No. 74 - Waiver Clause No. 75 - Laws Applicable Clause No. 76 - Successors Bound Clause No. 77 - Epidemics and Medical Attendance Clause No. 78 - Technology Transfer Clause No. 79 - General Duties and Performance Standard Clause No. 80 - Restriction and Procedure on Use of Imported Materials and Goods Clause No. 81 - Time	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
C	<u>APPENDIX TO THE CONDITIONS OF CONTRACT</u>	
1.1	<p><u>The Appendix to the Conditions of Contract shall be completed as follows:-</u></p> <p>Clause No. 4.1(a) - Officer(s) empowered to approve variations according to the limits as set out in Treasury's Instruction No. 202 as amended:-</p> <p>(a) If the Original Contract Sum does not exceed RM10.0M and accumulative variation amount not exceeding 10% of the Contract Sum OR Original Contract Sum exceeding RM10.0M and total V.O amount not exceeding RM 1.0M - A committee chaired by Yang Dipertua MPKj</p> <p>(b) If the Original Contract Sum not exceeding RM20.0M and accumulative variation amount not exceeding 20% of the Contract Sum OR Original Contract Sum exceeding RM20.0M and V.O amount not exceeding RM 4.0M - 'Lembaga Perolehan Agensi'</p> <p>(c) In all other cases - 'Ketua Setiausaha Perbendaharaan' OR Financial Officer of applicable State</p> <p>Clause No. 4(4.1) (b) - Officer(s) empowered to take action on behalf of the Majlis Perbandaran Kajang in respect of Clauses 51, 52, 53, 58 and 66</p> <p>Yang Di-Pertua, Majlis Perbandaran Kajang</p> <p>Clause No. 13 - Amount of Guarantee for Performance Bond</p> <p>To be computed based on 5% of Contract Sum. Bank/Insurance Guarantee and Guarantee Number to be submitted by Contractor.</p> <p>Clause No. 15 - Minimum insurance cover for any one accident or series of accidents arising out of one event RM 500,000.00 (Ringgit : Five Hundred Thousand Only). Policy number and period of insurance coverage to be submitted by Contractor</p> <p><u>Clause No. 15.1(b) - Amount of excess clause</u></p> <p>To be borne by Contractor</p> <p><u>Clause No. 17 - SOCSO Scheme registration number</u></p> <p>To be submitted by Contractor</p> <p><u>Clause No. 18 - Amount to be added to full value of Contract Sum as the insured sum</u></p> <p>To be submitted by the Contractor. Policy number and period of insurance to be submitted by Contractor.</p> <p><u>Clause No. 18(b) - Amount of excess clause</u></p> <p>Up to Contractor</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
C	<p><u>APPENDIX TO THE CONDITIONS OF CONTRACT (Cont'd)</u></p> <p><u>Clause No. 21.2 - Date of Tender</u></p> <p>Date for closing of tender as stipulated in the Tender Notice</p> <p><u>Clause No. 28.1 - Value of work to be executed including materials and goods to be delivered before First Interim Certificate will be issued</u></p> <p>RM1,000.00</p> <p><u>Clause No. 28.2 - Value of work to be executed including materials and goods to be delivered before each subsequent Interim Certificate will be issued</u></p> <p>RM1,000.00</p> <p><u>Clause No. 28.6 - Period for honouring payment certificate</u></p> <p>Thirty (30) days of the issuance of the Certificate</p> <p><u>Clause No. 34.4 - Work covered by Provisional Sums for which the Contractor will be permitted to tender</u></p> <p>Only work for which the Contractor has the requisite head and sub-head of registration with the Government (Pusat Khidmat Kontraktor and Construction Industry Development Board)</p> <p><u>Clause No. 38.2 - 'Date for Possession' of the Site</u></p> <p>As stipulated in Letter of Acceptance</p> <p><u>Clause No. 39.1 - 'Date for Completion' for whole of the Works</u></p> <p>As stipulated in Letter of Acceptance</p> <p><u>Clause No. 40.2- Liquidated and Ascertained Damages</u></p> <p>RM (0.0219% of Contract Sum) Per Day</p> <p><u>Clause No. 41.1 - Sectional Completion</u></p> <p>Not Applicable</p> <p><u>Clause No. 48.1(a) - Defects Liability Period</u></p> <p>Twelve (12) months</p> <p>Clause No. 5.3, 5.4, 15.3, 17.3(b)& 18.2 - Percentage of on-cost charges 5%</p> <p>Clause No. 48.2 & 56.2(d) - Percentage of on-cost charges 10%</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION	
1.1	<p><u>Start - Up Procedures</u></p> <p>Upon receipt of a Letter of Acceptance the Contractor shall provide the following documentation:-</p> <p>(i) A Performance Bond in favour of the MPKj in the manner prescribed in JILID I of the Tender Document</p> <p>(ii) Copy of the Contractor's Safety Policy, Rules and Regulations.</p> <p>(iii) Certificate of Insurance policies.</p> <p>(iv) SOCSO Registration No.</p> <p>(v) Detailed Contract Schedule and Method Statement.</p> <p>(vi) Upon request, Detailed Listing and Proposed Schedule for all drawings i.e. Shop Drawing etc. and submittal anticipated for the project.</p>	
1.2	<p><u>Site Management Cost</u></p> <p>The Contractor shall constantly keep upon the Works on a full-time basis, the following key site personnel:</p> <p>a) competent and experience Project Manager who shall be overall in charge of the Works</p> <p>b) qualified and competent engineers with past experience in the specified work</p> <p>c) general foreman who shall be continuously in charge of the execution and maintenance of the Works throughout the currency of the Contract.</p> <p>d) adequate assistant foremen, site supervisors and all "back-up" staff who are skilled, competent and experience in their respective callings.</p> <p>The Contractor shall provide an organization chart showing full and detailed list of his Site Supervisory staff for the project for the approval of the S.O. Such list shall include relevant details of each staff member including his function, position, duties, qualification, experience, age and length of employment with the Contractor. The provision of such organization chart and the S.O's approval thereof shall not limit the Contractor's responsibilities and obligations in respect of adequate staffing at site of the Works and in the event additional staff are considered necessary to properly and effectively supervise the execution of the Works, the Contractor shall provide such additional staff at no extra cost to the MPKj.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION (Cont'd)	
1.3	<p><u>Working Hours</u></p> <p>The working hours of the Site Supervisory Staff are as follows:</p> <p>Monday - Saturday - 8.30 am to 1.00 pm - 2.00pm to 5.30pm</p> <p>Any work which require "standing" supervision e.g. concreting, piling, mixing of cement and sand for plastering or screeding and mixing of paints, etc. shall be organised and programmed in such a way so as to carry out these works within the stipulated working hours for Consultants' and/or S.O.'s Site Supervisory Staff. Prior written permission from the S.O will have to be obtained if, in the urgency of the case, such work is required to be carried out beyond the stipulated hours.</p> <p>Prior notification to the S.O shall be given before overtime work is carried out.</p> <p>If the S.O considers it necessary for the S.O.'s site staff to be present during the overtime work, the Contractor shall reimburse the S.O. for the cost of such overtime payments.</p>	
1.4	<p><u>Overtime To Keep Up With Progress Of The Works</u></p> <p>When permission is given for overtime work the Contractor shall pay to the S.O. for such additional services of the Site Supervisory Staff.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION (Cont'd)	
1.5	<p><u>Setting Out</u></p> <p>Before commencement of the Works, the Contractor shall employ a qualified and licensed Land Surveyor to set out and to confirm points and bench marks, including all necessary labour, rods, pegs, instruments and attendance required by the S.O. for purposes of checking.</p> <p>The Land Surveyor shall locate the correct boundary stones demarcate the site boundaries, record the site levels, demarcate the building lines and confirm all necessary points.</p> <p>The existing control points and bench marks must be properly protected.</p> <p>The Contractor shall make every endeavor to preserve the pegs set out by the Land Surveyor, should any peg be displaced or lost it must be replaced by the contractor at his own expense.</p> <p>The Contractor shall be responsible for the accuracy of all setting out and to establish all levels accurately. Any errors in setting out and any consequential loss to the S.O. will be made good at the Contractor's expense and to the satisfaction of the S.O.</p> <p>The Contractor shall submit two (2) certified copies signed by the Land Surveyor, as built surveyed setting out plan, on completion of the setting out.</p> <p>No advice and/or advises by the S.O. in connection with the setting out shall relieve the Contractor from his responsibility to ensure the accuracy that the layout and dimensions are in accordance with the drawings.</p> <p>The Land Surveyor shall locate the correct boundary stones demarcate the site boundaries, record the site levels, demarcate the building lines and confirm all necessary points.</p> <p>The existing control points and bench marks must be properly protected.</p> <p>The Contractor shall make every endeavor to preserve the pegs set out by the Land Surveyor, should any peg be displaced or lost it must be replaced by the contractor at his own expense.</p> <p>The Contractor shall be responsible for the accuracy of all setting out and to establish all levels accurately. Any errors in setting out and any consequential loss to the S.O. will be made good at the Contractor's expense and to the satisfaction of the S.O.</p> <p>The Contractor shall submit two (2) certified copies signed by the Land Surveyor, as built surveyed setting out plan, on completion of the setting out.</p> <p>No advice and/or advises by the S.O. in connection with the setting out shall relieve the Contractor from his responsibility to ensure the accuracy that the layout and dimensions are in accordance with the drawings.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION (Cont'd)	
1.6	<p><u>Site Meetings</u></p> <p>The Contractor or his representatives shall attend all site meetings arranged at monthly or at intervals as directed by the S.O. and provide all necessary refreshment during the meetings.</p>	
1.7	<p><u>Planning and Scheduling</u></p> <p>The Contractor shall prepare, maintain, coordinate and control the planning programming, scheduling and time implications of his project responsibilities.</p> <p>The Contractor shall submit to the S.O. for his approval a programme using latest Microsoft Project, showing the order or procedure and method in which the Contractor proposed to carried out the works and shall whenever required by the S.O.'s representatives, furnish for his information particulars in writing of the Contractor's arrangements for carrying out of the works and of the constructional plant and temporary works, if any, which the Contractor intends to supply, use or construct as the case may be. The contractor is required to submit to the S.O. a critical path based on work program fulfilling the following conditions:</p> <p>The works program must consist of the three basic elements of planning, milestone tasks or activitirs and relationship</p> <p>The works program will start with a milestone and finish or complete with a milestone</p> <p>The commencement and finish date must coincide with the contractual dates</p> <p>All tasks and activities must have both predecessor and successor element linked</p> <p>The contractor can submit either a PERT or GANS formatted program</p> <p>The relationships approved for used are either finish to start, start to start, finish to finish and start to finish</p> <p>The works program must be resource loaded with machinery and manpower to the quantum that the contractor proposed to carry out the works with. For eg. General Worker (2) where General is the resource type and (2) is the number of quantity proposed.</p> <p>The works program must be financially loaded as per the tender items and cost. In the event the tender is of lump sum nature, the contractor will need to disperse their tender cost across the works programs, task & activities, to values, rationalised and approved by the S.O.</p> <p>The works program must indicate clearly all designated governmental approved holidays and any other holidays they wish to adhere to during the course of the project time. This selected list of holidays must be on the timeline chart display or extractable via the calender view</p> <p>The program must be presented in a works Breakdown Structures (WBS) format, using codes approved by the S.O.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION (Cont'd)	
1.7	<p><u>Planning and Scheduling (Cont'd)</u></p> <p>The contractor will be required to submit to S.O. a soft copy of the works program compact disk (CD) format. The CD must be submitted in a completely close case labelled to show:</p> <ul style="list-style-type: none"> i) Project Name ii) Tender Name (if different from Project name) iii) Contractor's name and address iv) Reference number (if any) v) Any other information as per S.O. instruction, should such need arise <p>The contractor is required to submit a colour printout copy of the works program, binded into a presentable format and labelled accordingly</p> <p>The contractor will be required to submit 5 colour copies to the S.O.</p> <p>The soft copy will not be saved as Baseline unless otherwise approved by S.O or its representatives.</p> <p><u>Software</u></p> <p>The software acceptable for use in the creation of the works program is the latest Microsoft Project 2007 or higher</p> <p>If the Contractor fails to carry out the works in accordance with the programme due to his own delays then he is not entitled to any claim for Preliminaries and Extension of Time. The Contractor shall give at least one month notice to the S.O. for any details or drawings which they require so as to complete the Works within the programme.</p>	
1.8	<p><u>Rate Of Progress</u></p> <p>If for any reason, which does not entitle the Contractor to an extension of time, the rate of progress of the works is in the opinion of the S.O. too slow to ensure completion by the prescribed time or extended time for completion, the S.O. shall have the right to instruct the Contractor to expedite the progress by increasing his plant and labour force and/ or to continue work beyond normal working hours including night work in order to complete the works or such section by the prescribed time or extended time. The Contractor is to allow here for the extra costs for complying with the S.O.'s instruction to perform such work necessary to adhere programme as no claim for extra payment for additional labour or for working beyond normal working hours will be entertained.</p>	
1.9	<p><u>Projected Cash Flow</u></p> <p>Within the 14 days after the receipt of the Letter Acceptance of Tender the Contractor shall submit to the S.O. cash flow anticipating expenditure to be incurred during the duration of the Contract period. The Contractor shall also indicate projected claim and anticipated date of claim. This is to assist the S.O. for budgetary purposes.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION (Cont'd)	
1.10	<p><u>Progress Report</u></p> <p>The Contractor shall prepare and submit daily progress report for the works at monthly and weekly basis intervals. These reports shall be initialled by both the Contractor's representative and S.O. representative. The Contractor shall allow for making ten (10) copies of these report for distribution to all parties concerned. These reports shall include the following information:</p>	
1.11	<p><u>Progress Photograph</u></p> <p>The Contractor shall provide of coloured progress photographs size 4R showing different angle of the site and the associated external works as instructed by the S.O. and shall be taken at monthly intervals during the currency of the contract including one set before commencement of the Works.</p> <p>Frequency:</p> <p>i) at least ten views on taking possession of site</p> <p>ii) at least ten general views and four specific views of works at the end of every month thereafter</p> <p>The Contractor shall provide ten (10) set of photograph to be distributed to the S.O. and the Consultants. One set shall be displayed in the site conference room and albums shall be provided for this purposes by the Contractor which will be handed over to the S.O. at the completion of the Works. All the photograph for distribution shall be fixed to hard paper and a suitable caption shall be typed at bottom of each photograph describing the subject and date taken.</p>	
1.12	<p><u>Project Diary</u></p> <p>The Contractor shall keep project diary which shall record the major events of each day. The format shall be approved by the S.O. and as a minimum shall include :</p> <p>a. Weather record for the day</p> <p>b. Number of operatives present on site, categorised by trade or skill</p> <p>c. Number of items of major plant, giving make, model and physical location on site.</p> <p>d. The location and description of major activities on site.</p>	
1.13	<p><u>Daywork Forms</u></p> <p>Where works are recorded on daywork basis, the daywork sheets are to be numbered consecutively into immediately signed by the Foreman In Charge and countersigned by the S.O. Representative. Such signatures shall only imply that the time, labour and/or goods or materials recorded on the dayworks sheets are considered to be correct but shall not imply that the works recorded constitutes a variation nor that it will be valued on a daywork basis, these being matters to be decided and determined at the S.O. discretion.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION (Cont'd)	
1.14	<p><u>Date Line for Submission of Overtime and Dayworks Sheets</u></p> <p>Dayworks and overtime sheets shall be lodged with the S.O. not later than two (2) working days after such works have been carried out, failing which such claims may be rendered null and void.</p>	
1.15	<p><u>Application for Extension of Time</u></p> <p>Any application of Extension of Time must be submitted to the S.O. within two (2) weeks of the occurrence of the event/causes/ reasons for extension of time. Any submission later than two (2) weeks after the occurrence of the events/causes/reasons for extension may not be considered.</p>	
1.16	<p><u>Conveyance of Plant and Materials On Site</u></p> <p>The Contractor shall be arrange for the conveyance of materials, plants etc., so as to cause a minimum of damage to existing roads and culverts.</p> <p>The Contractor Shall be responsible for any damage caused by his lorries or workmen to any existing roads, culverts, etc., from whatsoever cause arising i.e including caused by his Nominated Sub-Contractors and Suppliers and shall maintain, repair and reinstate same to their original condition to the satisfaction of the S.O. or alternatively shall bear the cost of such maintenance and restoration as a deduction from any money due or to become due to the Contractor under this Contract.</p>	
1.17	<p><u>Safeguarding the Works</u></p> <p>The Contractor shall be responsible for safeguarding the whole of the Works including those of Sub-Contractor until they are handed over to the MPKj. The Contractor shall take all necessary measures to safeguard the works, materials and plant, against damage and theft and shall indemnify the MPKj against any loss by theft and damage.</p>	
1.18	<p><u>Attendance</u></p> <p>The Contractor shall allow for the general attendance of one trade upon another and for attending upon, clearing away for and making good after all trades and leave all perfect on completion.</p>	
1.19	<p><u>Employment of Foreign Workers</u></p> <p>Every effort must be made by the Contractor to employ Malaysian citizen for the Works. If the foreign workers are to be employed the Contractor shall be responsible for their entry strictly in accordance with the requirements of the relevant immigration laws and regulations. He shall also be responsible for obtaining their work permits from relevant Authorities. The MPKj absolves himself from all responsibility pertaining to his matter.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
D	CONTRACT ADMINISTRATION (Cont'd)	
1.20	<p><u>Contractor's Plant</u></p> <p>All mechanical plant used by the Contractor shall be of such type, size and method of working suitable to type and nature of the Works and site conditions where the Works are to be executed.</p> <p>The Contractor is to demobilise all construction plant from site upon the completion of the Works.</p>	
1.21	<p><u>Control of Workmen at Site</u></p> <p>The Contractor shall be responsible for controlling all persons under his employment and those employed by his sub-contractors, merchants and hauliers at the work site and shall take all necessary precautions to prevent damage and nuisance of any kind and shall indemnify the MPKJ against any claim arising therefrom.</p>	
1.22	<p><u>Particulars of Employees</u></p> <p>The Contractor shall on each working day furnish to the S.O., maintain and update a full list of all his workers including all workers employed by his sub-contractors or nominated sub contractor on the work site giving all particulars in the form as stated in the format as approved by the S.O.</p>	
1.23	<p><u>Shop Drawing</u></p> <p>The terms "shop drawings" mean drawings, diagrams, illustrations, schedule, performance charts, brochures and other data which may be required by the Contract or as reasonable required by the S.O.</p> <p>The Contractor shall provide the S.O., Structural Engineers or Mechanical & Electrical Engineers as the case may be through the sub-contractors or supplier concern with full, complete and sufficient shop drawings as required for structural steelworks, precast concrete works, mechanical and power equipment, air conditioning, ventilation and other services, pressed metal space frames, and its roof coverings, skylights, curtain walling, aluminium and glazing works and all others necessary or special parts of the structure or its equipment. Such drawings shall be submitted in ample time for checking and for resubmission to any amendments described so as not to jeopardize the time for completion of the contract. No works shall be carried out until the relevant shop drawings have been approved by the Architect or Engineers concerned.</p> <p>It should be clearly understood that the approvals of shop drawings by the Architect, the Structural Engineers or the Mechanical and Electrical Engineers are solely for approval of subject matter in principal only and do not constitute checking the details, measurements or acceptance of auxiliary units or materials unless specifically mentioned in writing by the S.O.</p>	
1.24	<p><u>Contract Document</u></p> <p>The contractor shall allow for making seven (7) copies of Contract Documents. All preparation costs including printing and binding cost are borne by the contractor.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
E	<u>MATERIALS AND SAMPLES</u>	
1.1	<p><u>Materials And Workmanships</u></p> <p>Materials and workmanship throughout the Works shall be in accordance with the Drawings and Specifications and to the approval of the S.O. The terms "as described" shall mean as described in the Specification.. The terms "Approved, Selected and Directed" shall mean approved, selected and directed by the S.O.</p> <p>Materials and workmanships throughout the Works shall be the best of their respective kinds. The Contractor shall produce a certificate of origin for any material if the S.O. so requires. Wherever, in the Specifications any proprietary goods or materials are specified, goods or materials of alternative manufacture may be considered for acceptance provided they comply in all respect as regards to appearance and quality, and are approved by the S.O.</p> <p>If, however, the Contractor has shown beyond reasonable doubt that the specified goods or materials cannot be obtained and the S.O. is satisfied with regard to the non-availability of the goods and materials, the benefit of cost saving, if any, resulting from the Contractor's proposal or substitution of goods or materials approved by the S.O. shall be deducted from the Contract Sum.</p> <p><u>1.2 Ordering Materials</u></p> <p>The Contractor shall submit a Schedule of Ordering of Materials within one (1) month of acceptance of tender. The schedule shall be subjected to the approval of the S.O. Upon the acceptance of the schedule, the Contractor is to inform the S.O. for conformation of materials to be ordered at least one (1) month before the date of ordering as stated in the schedule.</p> <p>If the Contractor fails for any reason to supply any materials which he has contracted to supply or if he fails to supply any such materials in sufficient time to enable the Contract to be completed, then in either event the the MPKj may supply any portion, or all, of materials. If the the MPKj supplies such materials, the cost in respect thereof to be borne by the Contractor shall be ;</p> <p>- EITHER the current market rates</p> <p>- OR the actual cost to the MPKj WHICHEVER IS GREATER plus 5% on cost charges.</p> <p>The cost to be borne by the Contractor as above detailed, shall be deducted from any money due or to become due to the Contractor under this Contract and the Contract Sum shall be adjusted accordingly.</p> <p>No action by the S.O. under this Clause shall be deemed in any way to affect or modify the right of the MPKj to claim for damages in the event of the Contractor's failure to complete the Works by the agreed date of completion.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
E	<u>MATERIALS AND SAMPLES (Cont'd)</u>	
1.3	<p><u>Samples</u></p> <p>Samples of materials and fittings shall be submitted for approval as and when directed. All samples which are approved shall indicate the standard to be maintained in the execution of the Works. All approved samples must be kept at the S.O.'s site office for reference.</p> <p>The Contractor shall provide and submit all necessary and relevant catalogues, trade literatures, etc. pertaining to goods or materials offered for use in the Works. Such trade literatures, etc. shall be in the Bahasa Malaysia or English language.</p> <p>Samples shall become the property of the S.O.</p>	
1.4	<p><u>Testing and Testing Apparatus</u></p> <p>The Contractor shall at his own expense provide such instruments, apparatus, machine, assistance and labour as are normally required and/or stipulated in this Contract for examining, measuring and testing any work and the quality, weight or quantity of any goods or materials used or to be used or workmanship attained or to be attained.</p> <p>Whenever required, the Contractor shall provide test certificates or the tested goods, materials and/or workmanship for the S.O. examination.</p> <p>The Contractor is to allow in his Tender the cost of goods, materials and/or workmanships, samples to be submitted for testing including all cost such testing if and when required by the S.O. The Contractor, if so required by the S.O. shall immediately produce copies of orders or certificates of origin, whichever is required of any goods or materials for examination.</p>	
1.5	<p><u>Import Duty, Excise, Taxes and Foreign Exchange</u></p> <p>The Contractor shall allow for any import duty, excise and all form's of taxation on any goods or materials supplied or changes in foreign exchange rates irrespective of time and period of imposition. Even if, there are amendments in the enactments or Government policies pertaining to import duty, excise, taxes and foreign exchange on those goods, materials or exchange rates, shall not entitle the Contractor for extra claims or variations in price of the Tender.</p>	
1.6	<p><u>Warranty</u></p> <p>The Contractor shall submit warranty certificates issued by manufacturer to the the MPKj. This warranty shall include the guarantee for materials and installation. In the occasion where the manufacturer warranty requires that installation is to be carried out by a specialist Contractor recognised and approved by the manufacturer, the main Contractor shall ensure that the above condition is met.</p> <p>Unless otherwise stated, all equipment warranty shall be 18 months from the date of Practical Completion. Contractor is to take note and price accordingly on items which required extended warranty period of another 12 months from the Certificate Of Making Good Defects as listed in the Schedule.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
F	<u>SITE OFFICE AND EQUIPMENT FOR SUPERINTENDING OFFICER</u>	
1.1	<p><u>Site Office</u></p> <p><u>Relocable Type</u></p> <p>The Contractor shall provide for the S.O or his representatives temporary site office which shall consist of meeting room, officer's room and store as the</p> <p>A office for MPKj/Consultants site staff</p> <p>A prayer room including ablution taps</p> <p>A meeting room to accommodate at least 20 persons.</p> <p>All office furniture and equipment such as meeting tables, office tables, chairs, cabinets, plan chest and drawings racks, drawing hanger, notice board, pin-up boards and magnetic white board on caster with markers for the office and meeting room in sufficient quantity and quality</p> <p>Telephones, light fittings, water and electricity supply</p> <p>Toilet facilities consisting of w.c, urinal, shower and wash hand basin, solely for the use of the S.O and his staff</p> <p>The contractor shall pay all deposits and charges, comply with all by-laws, maintain all services and pay all bills for electricity, water, telephones, etc. for the full duration of the Contract.</p> <p>The Contractor shall keep the office accessible at all times and in every way habitable for working purposes throughout the duration of the Contract. The Contractor shall also provide such labour and cleaning materials as are required to maintain the site office in a thoroughly clean and sanitary condition.</p> <p>On completion of the Contract, all furniture and equipment in the S.O's and his staff's office shall become the property of the Contractor. The site office shall be removed from the site and the site shall be left in a tidy condition.</p> <p>Notwithstanding the above, the Contractor may at his own option and with the approval of the S.O, provide a site office at alternative design or construction, provided, that the same shall not be inferior to the type and size of accommodation, and quality as the site office specified above.</p> <p>Where the Contractor propose to use a transportable site office, he must submit together with his tender details of the name of manufacturer, size of the proposed accommodation, electrical fittings and furniture proposed to be provided together with necessary drawings and other technical literature of the same, and stating whether the proposed site office is new or has been previously used.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
F	<u>SITE OFFICE AND EQUIPMENT FOR SUPERINTENDING OFFICER (Cont'd)</u>	
1.1	<p><u>Specification for the Provision and Maintenance of Equipments and Facilities</u></p> <p>The Contractor shall provide the following facilities listed hereunder for the use of the Superintending Officer (S.O) and/or his/her staff. All equipments(s) provided for the facilities shall be new, delivered, tested and installed within a month of the issuance of the Letter of Acceptance</p> <p>The facilities provided shall be maintained by the Contractor or his appointed agent throughout the contract period until the issuance of the Certificate of Practical Completion. Maintenance shall include all necessary, monthly servicing according to manufacturer's specification and supply of accessories and consumables.</p> <p>The equipment(s) and facilities shall be in the custody of the Contractor at all times. Upon the issuance of the Certificate of Practical Completion, the Contractor shall remove all equipment and facilities from the location</p> <p>If the Contractor fails to provide or maintain any equipment(s) for the facilities as listed hereunder the Government shall have the right to procure the equipments(s) from other sources or maintain it and all expenses arising shall be borne by the Contractor and an appropriate adjustment shall be made to the Contract Sum.</p>	
1.2	<p><u>Consumable Items</u></p> <p>Consumable items shall be sufficient numbers and supplied for the entire duration of the contract period and including maintenance period</p>	
1.3	<p><u>S.O's Facilities And Equipment</u></p>	
1.3.1	Supply and delivery 1 unit computer system complete with original and legal copy of software, specification as per Appendix A/2	
1.3.2	Supply and delivery 1 unit laptop complete with original and legal copy of software, specification as per Appendix A/2	
1.3.3	Supply and delivery 2 units printer, specification as per Appendix A/2	
1.3.4	Supply and delivery 10 nos safety shoes	
1.3.5	Supply and delivery 10 nos safety helmet	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
G	<u>TEMPORARY WORKS</u>	
1.1	<u>Temporary Building</u> <p>The Contractor shall provide and maintain a temporary shed, for use during the execution of the works, at the location as directed by the S.O., remove them on completion of the works and pay all charges in connection therewith.</p> <p>These sheds and the fixtures therein shall remain the property of the Contractor on completion.</p> <ul style="list-style-type: none"> - Adequate lock-up weather proofed shed for safe storage of building materials. Sheds for storage of cement shall have the floor raised at least 300mm above ground level. - The Contractor shall provide temporary accomodation for workmen (Kongsi) where required, complete with proper kitchens, bathing places and latrines adequate water supply and proper drainage. These facilities shall, in very respect, conform and be maintained to the satisfaction of the Health and/or other local authorities. - Sanitary conveniences for the operatives, supervisory and site staff in approved positions and inconformity with the requirement of the Local Authorities. Maintain them in good and hygienic condition and deodorize ground after removal. <p>The Contractor shall also erect any other temporary building for his own use but must be to the Local Authority and S.O. approval. However no workers quarters or accomodation is allowed on site.</p>	
1.2	<u>Temporary Lighting and Power</u> <p>The Contractor shall provide adequate temporary lighting and electrical power including the use of generator sets for use on the Works including any normal power required by all Nominated Sub-contractors and for testing, test running and balancing of all Specialist Installations included in this Contract, pay all charges and clear away apparatus on completion.</p>	
1.3	<u>Temporary Water Supply</u> <p>The Contractor shall allow for providing his own water supply including the construction wells, if necessary. The Contractor shall maintain and clear away on completion all temporary water source, plumbing and storage of all water required (including water required by Nominated Sub Contractor) for use in the Works and shall pay all costs and fees in connection herewith. All water shall be fresh, clean and free from deleterious matter. Contractor is advised to find out potential source of water before submitting tender.</p>	
1.4	<u>Plant and Machinery</u> <p>The Contractor shall provide all necessary temporary plant and machinery to ensure smooth running of the jobs and to achieve the accepted date of completion and maintain then during currency of the Contract and remove upon completion of Works.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
G	TEMPORARY WORKS (Cont'd)	
1.5	<p><u>Project Sign Board</u></p> <p>The Contractor shall provide and fix in position within one (1) week of the Date of Site Possession Project Sign Board as per Architectural drawings and to be approved by the S.O. with the required wordings and design.</p> <p>The contractor shall ascertain the requirements of the above before submission of his tender and obtain approval and pay all fees as required by local authorities for putting up the sign board. No claim will be entertained for failing to do so.</p> <p>The sign board shall be maintained, shift and adapted as instructed by the S.O. and shall be dismantled, removed and make good to the satisfaction of the S.O.</p> <p>No other board or advertisement will be permitted to be displayed on or around the Works.</p>	
1.6	<p><u>Waste Management</u></p> <p><u>Scheduled Waste Disposal</u></p> <p>i) Construction of storage shed to temporary house scheduled wastes as specified and shown in the drawing</p> <p>ii) Disposal of scheduled waste to designated and approved premises</p> <p><u>Desilting</u></p> <p>The Contractor is to accept and to make provision for the actual site condition on the time of the site possession and to clean and to keep all drains, streams and waterways free from mud, silt and other obstructions and make good where necessary to the satisfaction of the S.O. during the currency of the Contract.</p> <p>The Contractor shall carry out regular maintenance works and to construct temporary earthdrain, wash trough, silt trap, r.c sump, interlocking pavers up to the satisfaction of the S.O. until the end of Contract.</p>	
1.7	<p><u>Maintenance of Existing Drains</u></p> <p>The Contractor is required to clean all drains (including road side drains) of all earth and other debris and to maintain and rectify all portions damaged during the course of works at his own expense.</p>	
1.8	<p><u>Damage to Existing Roads, Paths , Etc.</u></p> <p>The Contractor shall be responsible for damage to the surface of existing roads to verges, ditches, drains, culverts and fences which may result from his work or from the passing of his vehicles, plant or equipment of whatever kind to and from the same damage immediately it occurs and he shall reinstate the same to their original condition all to the satisfaction of the owners of the road or property over or through which the road passes.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
G	<u>TEMPORARY WORKS (Cont'd)</u>	
1.9	<p><u>Existing Services, Facilities And Public In The Vicinity</u></p> <p>Before commencing any excavation etc. the Contractor shall ascertain the existence and position on the site of all existing overhead and underground services cables, pipes, etc., from relevant authorities and shall be responsible for making the necessary arrangements for their disconnection, removal and if necessary reconnection of such service.</p> <p>The Contractor shall protect, uphold and maintain and divert as directed, all existing and in use pipe, ducts, sewer, services mains, overhead cables, disillation system etc during the execution of the Works, unless otherwise directed.</p> <p>The Contractor shall at his own expense make good and any damage caused or pay any cost/charge in connection herewith.</p> <p>Where the services to be demolished and disposed off from site, temporarily terminated or diverted, the Contractor is to give the necessary notice to the appropriate Authorities concerned and arrange for the work to be carried out and pay all costs and charges involved.</p> <p>The Contractor shall verify and obtain any necessary approval prior to the removal of any disused services encountered and to allow for blocking off ends, etc. as appropriate where directed.</p> <p>The Contractor is to carry out the breaking into and the connection to existing services at such hours and times as recommended by the jurisdictional authorities, with a minimum of disturbance to pedestrian and vehicular traffic and the public or private property on which such work is being carried out. This work shall not necessarily be limited to normal working hours.</p> <p>The Contractor shall take note of the site location and the presence of persons and vehicles within the vicinity and shall provide barriers, warning lamps, guard rails etc. for the safety to the public.</p>	
1.10	<p><u>Temporary Hoarding</u></p> <p>The Contractor shall provide, shift, adapt and maintain temporary hoarding including all necessary accessories and fixing in design as per Architect's drawing to be approved by the Local Authority/S.O. around the Site. The Contractor shall pay all fees and obtain all the necessary licenses. Dismantle and remove from site on completion of the works or as instructed by the S.O.</p>	
1.11	<p><u>Access and Temporary Roads</u></p> <p>The Contractor shall provide and maintain all necessary temporary entrance to the site and temporary culverts, tracks, bridges, etc. for access to and within the site as long as required to the approval of the S.O. The position where the site access is to be made shall be as indicated on the site plan or as approved by the S.O. and the Contractor shall make all arrangements and obtain all approvals</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
G	<u>TEMPORARY WORKS (Cont'd)</u>	
1.12	<u>Temporary Access For Existing Properties</u> The Contractor shall provide a temporary access for the usage of existing properties owner for the whole duration of the Contract. The Contractor shall maintain and up keep the temporary access to the satisfaction of the S.O. If required the Contractor shall made application the the relevant local authorities for all necessary approval for the temporary access.	
1.13	<u>Temporary Scaffolding And Staging</u> Provide all scaffolding, staging, nets, ladders and catwalks necessary for the proper execution of the Works. The Contractor shall liase with all Nominated Sub-Contractor and Local Authorities to ensure that all their works requiring the use of scaffolding are completed before dismantling the same. If the Contractor should strike any of his scaffolding before ascertained whether it is required by any Sub-Contractor or Public Undertaking, he must re-erect it if so at his own expenses.	
1.14	<u>Traffic Control</u> The Contractor shall provide all necessary traffic and directional signs and signals for the control of vehicular and/or pedestrian personnel in connection therewith and remove upon completion.	
1.15	<u>Protection Of Earth Slopes And Drains</u> The Contractor shall take all necessary precautions to preserve all earth slopes i.e. slope already existing on the site at the time of the site being handed over to the Contractor and new i.e. new slopes formed and constructed by the Contractor under the Contract	
1.16	<u>Adjoining Property</u> Where the property adjoining the Site is in constant use by the Employer/ adjoining owner and occupiers, the Contractor shall arrange and carry out the Works so as to cause the minimum of interference or interruption to the use of adjoining properties including roads, footpaths, other accesses and any existing services thereto. Every effort must be made to ensure that the activities of the existing buildings are in no way hindered or interrupted. He shall comply with all instructions or directions given by the S.O. in these matters Any damage caused to the adjoining property including roads, footpaths, other accesses and any existing services shall be made good by the Contractor at his own cost to the S.O.'s satisfaction The Contractor shall take all proper measures to the satisfaction of the S.O. to minimise the spread of dust, noise, etc. arising from carrying out of the Works to the adjoining properties and shall comply to the requirements imposed by the Authority at his own expense	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
G	<u>TEMPORARY WORKS (Cont'd)</u>	
1.17	<p><u>Protection of Existing, Adjoining and Adjacent Buildings or Properties</u></p> <p>Before commencing any works under this Contract, the Contractor shall arrange for a joint inspection of all adjoining and adjacent buildings and properties with the owner(s) or their representative(s). S.O. and the insurance company from whom the relevant insurance policies will be taken.</p> <p>Photographs shall be taken on walls, floor slabs, aprons etc. and notes of their condition shall be recorded. Dated copies of these shall be extended to all parties concerned. The Contractor shall request the owner(s) of the existing, adjoining and adjacent buildings and properties to check and endorse the copies as being true and accurate description of their present conditions. During the progress of the Works, the contractor shall arrange for regular joint inspections of all existing, adjoining and adjacent buildings and properties.</p> <p>The Contractor shall construct and maintain and subsequently remove on completion of the Works all requisite shoring and support, etc. for the entire satisfaction of the S.O. and Local Authorities and pay all fees and charges in connection therewith.</p>	
1.18	<p><u>Underground Detection and Mapping Surveyor</u></p> <p>The Contractor shall employ a qualified Licensed Underground Detection and Mapping Surveyor to detect, pick up and confirm the all existing of utilities and services line buried underground (all electrical cables (HT & LV), telecommunication line, gas pipe, sewer line and water pipe including all necessary items required by Local Authority prior to carrying out open cutting works on the existing ground surface for implementation of the infrastructural works inside and outside of site boundary.</p> <p>The Contractor to submit to the S.O. ten (10) certified copies signed by the Licensed Surveyor, the as-built underground mapping drawings showing those utilities and services line buried underground in A1 size (838mm x 584mm), digital copy (CD) and a tracing sheet on completion of the underground mapping works. The Contract price shall be deemed to include the cost of preparation, supply and deliver of all drawings and information required.</p>	
1.19	<p><u>Permanent and Temporary Diversion of Existing Overhead and Underground Services</u></p> <p>Before commencing any Works at site, the Contractor shall check with various Local Authorities whether any overheads lines, cables or underground cables, watermain, sewers or other services present at the site. If so, he shall make arrangements for the permanent diversion or relocation of such services and pay all necessary costs and fees/charge in connection herewith.</p> <p>If during pipes excavation, the Contractor uncover any underground cables, pipes etc. he shall stop work immediately and inform the S.O. who shall issue the necessary instructions and directions. He shall be held responsible for making good all damage to cables, pipes etc. at his own expense and shall indemnify the Employer against any claims as a result of such damage.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
H	<u>HEALTH, SAFETY, SECURITY & ENVIRONMENTAL</u>	
1.1	<p><u>Mosquito Prevention</u></p> <p>The Contractor shall take such precautions as may be deemed necessary or desirable by the S.O. and/or Local Authorities for the prevention of breeding of mosquitoes and the Contractor shall pay any charges made by the Local Authorities for anti-malaria and/or anti-dengue fever measure taken. Any claims or legal proceeding arising from the failure to observe the above clauses shall be borne by the Contractor.</p> <p>The Contractor shall refrain from dumping or depositing rubbish, spoil, unused material, empty bottles, and other containers capable of collecting liquid which afford breeding places of mosquitoes. Contractor must be responsible for mosquito nuisance at the site and surroundings arising from non observance of the provisions of this clause and will be required to employ whatever mosquito destructive measures directed by the S.O. at the Contractor's own expenses.</p>	
1.2	<p><u>First Aid Kit</u></p> <p>The Contractor shall be required to provide a complete First Aid Kit which shall be kept and properly maintained in the Contractor's Site Office. The kit shall be in charge of either the Contractor's site representatives or some other responsible person who will be on the site during all working hours to ensure that the First Aid facilities are available without delay at all times when work is in progress.</p> <p>One responsible member of the Contractor's staff shall be trained in First Aid duties</p>	
1.3	<p><u>Safety of Site</u></p> <p>The Contractor shall observe and comply with the Factories and Machinery (Building Operations and Works Engineering Construction Safety Regulations 1986) where applicable.</p>	
1.4	<p><u>Worksite Safety</u></p> <p>The Contractor shall ensure that all personnel entering worksite must be properly <u>attired</u> with safety boots and safety helmets.</p> <p>The Contractor to ensure full compliance with safety instruction, enforce penalty system, bar any person regardless of ranks from site unless attired, conduct checks on riggings and equipments, on-line compliance with safety standard (fire/machineries), ensure and maintain safety certificates from Machinery Department, Fire Department, ensure site cleanliness etc and all other work necessary for safety of the worksite.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
H	<u>HEALTH, SAFETY, SECURITY & ENVIRONMENTAL (Cont'd)</u>	
1.5	<p><u>Safety Measure</u></p> <p>The Contractor is to provide and install all necessary protective measures to the works for the safety of his own and sub-contractor's workmen and for the protection of the public from all risks of injury especially by falling articles throughout all the stages of construction to the satisfaction of the Local Authorities and the S.O.</p> <p>The Contractor is solely responsible for the complete adequacy of the protective provisions that are necessary for the safety of all workmen and the public at all times of constructions.</p> <p>He must allow here against this item all costs and expenses for the protective system including maintaining, adding, adapting, modifying, taking down, refixing from time to time and as when necessary.</p> <p>No claim, monetary or otherwise, made by the Contractor on grounds of want of knowledge or foresight or for under provisions in connection with the protective systems will be entertained.</p> <p>Provide a full time safety officer with the required and approved qualification until the issuance of Certificate of Practical Completion (CPC). The safety officer shall be on site for the duration of his employment untill issuance of CPC.</p>	
1.6	<p><u>Keeping Site Dry</u></p> <p>The Contractor shall be responsible for keeping the whole of the works well drained and free from all water (including rain, storm, spring and running water and water below, water table level and the Contractor is to ascertain for himself the water levels as no claims shall be entertained on the grounds that these levels are not known or water arising from any other source) to ensure at all times that so far as practicable, all work is to be carried out in the 'dry'.</p> <p>He shall employ whatever means that maybe necessary to keep the site dry including baling, pumping (including power pumping) provision of temporary earth drains (including precast concrete drains where they are deemed necessary by the S.O.) drainage pits, water courses and any other means which the S.O. may instruct.</p> <p>The Contractor shall ensure that the water drained from the site shall be kept reasonably free from earth, debris etc. He shall be responsible for from the site and if the water is drained from the site to the public drains, he shall be responsible for making arrangements with the Local Authorities to do so including paying all necessary fees and making good damages to the roads, drains etc.</p> <p>The Contractor shall be solely held responsible for the sufficiently of the arrangements made for the exclusion of the water from the works and shall be responsible for keeping the works safe and dry at all times including periods of heavy rainfall and for any loss or damage which may result from the Contractor's neglect of his obligation.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
H	<u>HEALTH, SAFETY, SECURITY & ENVIRONMENTAL (Cont'd)</u>	
1.7	<u>Noise and Vibration Control</u> <p>The Contractor shall allow for and ensure that all measure to control noise and vibration produced or emitting from his works to kept to an absolute minimum or as required under or by virtue of any enactment or regulation or by the working rules of any industry.</p> <p>The Contractor shall take into consideration in his completion period complaints from adjacent owners or contractors working and adjoining sites (where applicable) and consequential stoppages of work resulting therefrom.</p> <p>The Contractor shall be held liable for any claims or legal proceedings arising from such complaints.</p>	
1.8	<u>Dust and Smoke Pollution Control</u> <p>The Contractor shall allow for and ensure that all measure to control dust and smoke pollution emitted from his works shall be kept to an absolute minimum or as required under or by virtue of any enactment or regulation or by the working rules of any industry.</p> <p>The Contractor shall take into consideration in his completion period complaints from adjacent owners or contractors working and adjoining sites (where applicable) and consequential stoppages of work resulting therefrom.</p> <p>The Contractor shall also ensure that all emission of smoke from his vehicles, plant and machinery required for use on the works shall be kept to the required minimum level and he shall be solely liable for any claims or legal proceedings arising thereof.</p> <p>The Contractor shall submit to the Local Authorities in triplicate plans showing the location of dumping sites and the transportation routes for any excess excavation. This shall be accompanied by letter(s) of consent from the land owner(s) concerned together with the land title(s) to prove ownership of the dumping site(s). The S.O. will also be provided with a copy of the documents required.</p> <p>The Local Authorities shall be informed in writing of the actual date of commencement of earthworks and within one week of the completion of earthworks.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
H	<u>HEALTH, SAFETY, SECURITY & ENVIRONMENTAL (Cont'd)</u>	
1.9	<p><u>Security</u></p> <p>The Contractor shall agree with the Government on the security procedure to be adopted during the construction period and once agreed, such procedures shall not be varied without clearance from the Government.</p> <p>The Contractor are to allow under this item for the issuing of identification passes to the workmen and any other security measures that may be required.</p> <p>The Contractor shall provide all necessary watching by day and by night including warning lamps during the whole currency of the Contract up to the defects liability period plus another twelve (12) months</p>	
2.0	<p><u>Environmental Protection and Enhancement</u></p> <p>The Contractor shall at all times adhere to all existing statutes regarding protection of the environment.</p> <p>The Contractor shall be fully responsible for compliance with the legislation as stated in the Scope Of Works and apply for all necessary permits, licences etc., renew if expired throughout the contract period.</p>	
2.1	<p><u>Compliance to MPKj Requirements for Environmental Protection Works</u></p> <p><u>Compliance to MPKj Requirements for Occupational Safety and Health</u></p> <p>The Contractor shall comply with all MPKj Environmental Protection Works Requirement and Occupational Safety and Health Requirement, if any</p>	
2.2	<p><u>Compliance to Government Requirement for Covid-19</u></p> <p>The contractor shall be fully responsible for compliance with Government rules/SOP for Covid-19 through the contract period. He shall pay all</p> <p>He shall comply with the rules/SOP issued during the tender and after the tender stage.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
I	<u>COMPLETION OF THE WORK</u>	
1.1	<p><u>Clearing Away Equipment, etc.</u></p> <p>On completion of the works, all plant, demolition and site clearance appliances, apparatus or equipment are to be remove as quickly as possible and conveyed away from the site at the sole cost of the Contractor. All holes, trenches, excavations in connection with the plant, etc., are to filled in a proper manner, leveled off and the site left in a clean and orderly condition.</p> <p>All temporary services and leads, buildings, shed barriers etc., required in the works unless otherwise instructed by the S.O. are to be disconnected, dismantled, taken down and removed upon receipt of instructions from the S.O.</p> <p>Unless otherwise instructed by the S.O. in the event of the Contractor not clearing away the above mentioned materials and plant, temporary services and buildings or other than those which may be required as instructed, within the stipulated time, the S.O. shall be empowered to perform such work, either employing a third party for such purpose or dealing with such direct and all the costs of such clearing away shall be deducted from the Contractor's Final Account.</p> <p>The S.O. shall not be held responsible or liable for any material or plant left upon the site by the Contractor after the taking over of the site by the S.O..</p>	
1.2	<p><u>Cleaning up Site</u></p> <p>The Contractor shall trim grass, clear and remove from the site and at adjacent site (if any) and dispose off at his own dump all rubbish, waste and superfluous materials arising from the works and leave the site in a clean state acceptable to the S.O. Trimming of grass shall be done through out the Defects Liability Period.</p>	
1.3	<p><u>As Built Drawings</u></p> <p>It is an important requirements of this Contract that As-Built drawings to be submitted as work progresses. Upon completion of each stages of Construction Three (3) Sets of approved as-built to be submitted to S.O. [ie. Earthworks, Works, Structure Works etc.] for record purposes.</p> <p>On completion of the whole works under this Contract, the Contractor shall submit three (3) sets, of As Built / Completed Drawings to the S.O. within 30 days after the issuance of the Certificate of Practical Completion (C.P.C). The As Built / Completed Drawings shall confirm that the Works are wholly within the title boundaries. It is shall also show the exact position of the external services and mechanical & electrical works.</p> <p>The As Built Drawings shall be signed and duly stamped by the professional consultant who supervise the works prior to submission to S.O. The As-Built drawings supplied shall be comprehensive and to the satisfaction of the S.O. as to allow for complete understanding of the services as regards to its operation, maintenance, repairs and replacement.</p> <p>The Contactor shall submit certified final survey drawings to S.O.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
I	<u>COMPLETION OF THE WORK (Cont'd)</u>	
1.3	<p><u>As Built Drawings (Cont'd)</u></p> <p>In the event the Contractor fails to submit the As Built Drawing within 30 days period, the S.O. shall appoint another party to under take the above task and all cost incurred shall be deducted from the Contractor.</p> <p>The Contractor shall submit completed record drawings to Local Authority if requested at their own cost.</p> <p>The As Built Drawings shall be signed and duly stamped by the professional consultant who supervise the works prior to submission to S.O.</p> <p>The Contactor shall submit certified final survey drawings to S.O.</p>	
1.4	<p><u>Maintenance (Data) Manuals</u></p> <p>When work is completed the Contractor shall submit four (4) copies of all warranties, manufacturer's literature and other information for materials and equipment as listed in the specifications.</p> <p>The Contractor shall compile copies in sets, each set placed in A4 size, hard cover, 4-ring binder manuals, Label manuals and arrange information in sections according to material and equipment. Use blank, page size, buff-coloured divider sheets having integral tabs showing a reference number and abbreviated title to separate each section. Include a Table of Contents for each manual, listing each section by number and titles shown on divider sheet.</p> <p>The Contractor shall submit all information essential for proper care and maintenance in the form of manufacturer's printed literature amended where necessary to be specific, and supplemented by typewritten sheets where necessary. In addition to other requirements specified, submit:-</p> <p>a) Detailed instructions and recommended materials for cleaning and warnings of detrimental maintenance practices.</p> <p>b) Detailed instructions for operation and maintenance, adjustment, inspection, lubrication and parts replacement for all mechanically and electrically operated items.</p> <p>c) Names of manufacturer, supplier, installing and service companies as applicable and their local representatives, complete with addresses and telephone numbers.</p> <p>d) The Contractor shall indicate the extent maintenance work required, including the approximate cost of routine and preventive maintenance.</p> <p>e) The Contractor shall supply equipments for the purpose of future inspection and maintenance on request by the Client.</p> <p>The terminology used in the various indexed sections of the books shall be consistent.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
I	<u>COMPLETION OF THE WORK (Cont'd)</u>	
1.4	<u>Maintenance (Data) Manuals (Cont'd)</u> <p>The Maintenance Manual shall be prepared in accordance with S.O standard format and shall include (but not limited to) :-</p> <p>(a) Identification of all components requiring maintenance.</p> <p>(b) How all materials shall be maintained including any specialist materials and equipment required.</p> <p>(c) The prescribed maintenance frequency and sequence.</p> <p>(d) Manufacturers Specification references with addresses and telephone numbers of firms from whom replacement materials and components may be obtained.</p> <p>Without limiting any of the contract requirements, the Contractor shall state the terms of any additional guarantees he is prepared to offer on the whole or specified parts of the Works</p> <p>The Contractor shall prepare a Maintenance Manual, four copies of which shall be submitted to and approved by S.O as a precondition of Practical Completion of the Works.</p>	
1.5	<u>Procedure for Inspection Prior to Handover of the Works</u> <p>Prior to the Works being offered for handover, the Contractor shall carry out joint-inspection with the S.O. of the works to ensure that they are completely finished in every respect.</p> <p>Upon all defects and omissions having been rectified and/or agreements reached the Contractor shall inform the S.O. of the proposed date of handover inspection. This shall then be notified to the S.O. The Contractor shall ensure that adequate time has been allowed for all concerned to be notified and</p>	
1.6	<u>Final Cleaning</u> <p>As the Works near completion and before the final inspection, the Contractor shall replace materials, equipment, fixture and fittings, damaged or scratched during construction, or which are otherwise defective.</p> <p>The Contractor shall remove temporary protection and make good defects before commencing final cleaning.</p> <p>In addition to the requirements for cleaning-up specified in the Contract Documents, the Contractor is to include for final cleaning by skilled cleaning specialists on completion of the Works.</p> <p>The final cleaning shall remove dust, stains, paint spots, soil, grease, fingerprints, and accumulation of construction materials inside and outside the structures. Cleaning shall be in accordance with the installers/manufacturers instructions for each materials. Final cleaning shall include:-</p> <p>a. washing all surfaces</p> <p>b. cleaning and polishing of glass, mirrors, enamel and finish metals and the like</p> <p>c. vacuum cleaning of ceilings, walls and floors</p> <p>d. cleaning hardware, mechanical fixtures, lighting fixtures, cover plates and equipment, including polishing of their finish materials, vitreous and glass materials.</p>	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
I	<u>COMPLETION OF THE WORK (Cont'd)</u>	
1.7	<u>Protection Of materials and Completed Work</u> The Contractor shall provide all things necessary for the protection of materials and completed works including of the nominated sub-contractors and suppliers and shall comply with all directions of the S.O. in this respect and reinstate at his own cost any damage or loss incurred therefrom.	
J	<u>LOCAL AND OTHER AUTHORITIES NOTICES AND FEES</u> The Contractor shall be fully responsible for compliance with the local and other Authorities acts, notices apply for all necessary permits, licenses etc., pay all fee required, display permits, licenses etc., renew if expired throughout the contract period. He shall pay and idemnify the MPKj against any or charges demandable by law thereunder in respect of the Works.	
K	<u>COORDINATED DRAWINGS</u> The Contractor shall prepare and submit to the S.O a complete set of Coordinated Drawing which comprise of Architectural, Structurel, Mechanical and Electrical works pretaining to all the services incorporated into the works and his sub-contractors, nominated sub-contractor or others.	
M	<u>STAMP DUTY FOR CONTRACT DOCUMENT</u> The Contractor shall take note of the current regulation requiring the Contractor to pay all the required stamping fees fo all contract document related to this tender.	
	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
	<u>COLLECTION</u>	
	From Page No..... A/1	
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	From Page No..... A/3	
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	Total Carried to Collection	

A. PRELIMINARIES AND GENERAL CONDITION

	Description	Amount (RM)
	<u>COLLECTION (cont'd...)</u>	
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	From Page No..... A/47	
	TOTAL CARRIED TO SUMMARY OF TENDER	RM

LIST OF S.O.'S FACILITIES AND EQUIPMENT

BIL.	ITEM	NUMBER
1	<u>Computer System</u> - Intel Core i7-12700F Processor - 16GB DDR-4 U-DIMM - 1TB performance SSD - NVIDIA Geforce RTX3070 8GB - Windows 11Pro - Asus VY249HE 23.8" Monitor - Original Latest Microsof Office software and antivirus - Included Software Autocad 2023 & Adobe photoshop - Mouse and keyboard	1
2	<u>Laptop</u> - ASUS TUF GAMING F15 15.6" FHD Screen Laptop - Intel Core i5 -11400H Processor - NVIDIA Gforce RTX 3050 8GB - 512 GB Storage - Windows 11 Pro - Original Latest Microsof Office software and antivirus - Included Software Autocad 2023 & Adobe photoshop	1
3	<u>Printer</u> - Canon LBP6030 Single Function Monochrome Laser Printer	2

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WORK BELOW LOWEST FLOOR LEVEL</u>				
	Excavate, get out, part return, fill in and ram, deposit and spread in making up levels including trimming and grading where directed within the site and remainder load and cart away from site :-				
A	Oversite commencing from platform level to reduce level not exceeding 1.00m deep	m3	668		
B	Pit for pad footing commencing from platform level maximum depth exceeding 1.00m deep but not exceeding 2.00m deep (Provisional)	m3	469		
C	Trench for ground beam commencing from ground slab excavation level maximum depth exceeding 0.25m deep but not exceeding 1.00m deep	m3	76		
D	50mm thick sand blinding, spread and levelled under ground slab	m3	75		
	<u>Lean concrete Grade 10 as described:</u>				
E	50mm Thick blinding screed, spread and levelled under pad footing	m3	22		
F	Ditto under ground beam	m3	76		
	<u>Vibrated reinforced concrete Grade 30 as described in :-</u>				
G	Pad footing	m3	197		
H	Column stump (Provisional)	m3	9		
J	Ground beam	m3	76		
K	150mm Thick ground slab	m3	223		
L	<u>Extra For</u> scupper drain, 150mm x 50mm deep	m	122		
	Carried to Collection :				

DEWAN BANQUET BANGI

BQ1/A/2

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WORK BELOW LOWEST FLOOR LEVEL (Cont'd)</u>				
	Steel mesh fabric reinforcement to MS 145 well lapped at joint including notching around all obstructions and bending as required (measured nett - no allowance made for laps) as described:-				
A	A layer of BRC A8 in ground slab	m2	1,458		
	<u>Use and waste of sawn formwork as described to :-</u>				
B	Side of pad footing not exceeding 250mm high	m	48		
C	Ditto exceeding 250mm high but not exceeding 500mm high	m	454		
D	Ditto exceeding 500mm high but not exceeding 1.00mm high	m	142		
E	Side of column stump exceeding 500mm high but not exceeding 1.00m high (Provisional)	m	113		
F	Side ground beam exceeding 250mm high but not exceeding 500mm high	m	1,505		
G	Ditto exceeding 500mm high but not exceeding 1.00mm high	m	71		
H	Edges of ground slab not exceeding 250mm deep	m	192		
J	0.25mm Thick approved heavy duty polythene sheet damp-proof membrane, laid under ground slab, well lapped at joints including all necessary protection to prevent puncture (measured nett-no allowance made for laps)	m2	1,458		
	Ground treatment against subterranean termites using termiticides chemical soil treatment approved by Ministry of Health including providing five (05) years written guarantee :-				
K	Spray 'CYREN TC/HALEX 39EC' or other equal and approved termiticide with 5% at 5 litres per square metre for impregnation of soil surface below pad footing, ground beam and ground slab after laying of sand blinding and prior to concreting	Item	-	-	
	<u>Concrete Kerb</u>				
L	Cast in-situ Grade 25 as described kerb overall size 300mm x 150mm high, splayed at top including all necessary corners and angles, junctions, excavation, reinforcement, lean concrete, concrete, formwork and finishes all as per Engineer's details	m	122		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WORK BELOW LOWEST FLOOR LEVEL (Cont'd)</u>				
	<u>Lift Pit</u>				
	Excavate, get out, part return, fill in and ram, deposit and spread in making up levels including trimming and grading where directed within the site and remainder load and cart away from site :-				
A	Pit for pad footing commencing from platform level maximum depth exceeding 1.00m deep but not exceeding 2.00m deep (Provisional)	m3	16		
	<u>Lean concrete Grade 10 as described:</u>				
B	50mm Thick blinding screed, spread and levelled under pad footing	m3	1		
	<u>Vibrated reinforced concrete Grade 30 as described in :-</u>				
C	Pad footing	m3	4		
D	Lift pit wall exceeding 150mm and not exceeding 300mm thick	m3	4		
	<u>High tensile rod reinforcement as described :-</u>				
E	16mm Diameter in pad footing	kg	512		
F	10mm Diameter in lift pit wall	kg	133		
G	12mm Diameter ditto	kg	127		
H	16mm Diameter ditto	kg	51		
	<u>Use and waste of sawn formwork as described to :-</u>				
J	Side of pad footing exceeding 250mm high but not exceeding 500mm high	m	13		
K	Side of pit wall	m2	44		
L	0.25mm Thick approved heavy duty polythene sheet damp-proof membrane, laid under footing, well lapped at joints including all necessary protection to prevent puncture (measured nett-no allowance made for laps)	m2	11		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WORK BELOW LOWEST FLOOR LEVEL (Cont'd)</u>				
	<u>Lift Pit (Cont'd)</u>				
	Ground treatment against subterranean termites using termiticides chemical soil treatment approved by Ministry of Health including providing five (05) years written guarantee :-				
A	Spray 'CYREN TC/HALEX 39EC' or other equal and approved termiticide with 5% at 5 litres per square metre for impregnation of soil surface below pad footing, ground beam and ground slab after laying of sand blinding and prior to concreting	Item	-	-	
	Prepare and apply approved waterproofing system solvent free, flexible thick film coating based on rubber bitumen emulsion with pasty consistency or other approved equivalent applied to externally, horizontal and vertical areas all accordance to manufacturer's instruction				
B	Lift pit slab	m2	4		
C	Lift pit wall	m2	15		
	Carried to Collection :				
	<u>COLLECTION :</u>				
	BQ1/A/1				
	BQ1/A/2				
	BQ1/A/3				
	BQ1/A/4				
	BQ1/A/5				
	WORK BELOW LOWEST FLOOR LEVEL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>FRAME</u>				
	<u>Vibrated reinforced concrete Grade 30 as described in:-</u>				
A	Column	m3	53		
B	Stiffener (Provisional)	m3	3		
C	Suspended beam	m3	156		
D	Roof beam	m3	51		
	<u>Mild steel rod reinforcement as described :-</u>				
E	6mm Diameter in column as links	kg	144		
F	10mm Diameter ditto	kg	2,332		
G	6mm Diameter in stiffener as links (Provisional)	kg	227		
H	6mm Diameter in suspended beam as stirrups	kg	196		
J	10mm Diameter ditto	kg	2,911		
K	12mm Diameter ditto	kg	2,582		
L	6mm Diameter in roof beam as stirrups	kg	75		
M	10mm Diameter ditto	kg	1,580		
	<u>High tensile rod reinforcement as described :-</u>				
N	12mm Diameter in column	kg	533		
P	16mm Diameter ditto	kg	128		
Q	20mm Diameter ditto	kg	4,191		
R	25mm Diameter ditto	kg	1,425		
S	12mm Diameter in stiffener (Provisional)	kg	725		
T	12mm Diameter in stiffener as starter bar (Provisional)	kg	218		
U	12mm Diameter in suspended beam	kg	656		
V	16mm Diameter ditto	kg	3,473		
W	20mm Diameter ditto	kg	1,942		
X	25mm Diameter ditto	kg	19,431		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>FRAME (Cont'd)</u>				
	<u>High tensile rod reinforcement as described :- (Cont'd)</u>				
A	12mm Diameter in roof beam	kg	955		
B	16mm Diameter ditto	kg	1,072		
C	20mm Diameter ditto	kg	2,665		
D	25mm Diameter ditto	kg	1,236		
	<u>Use and waste of sawn formwork as described to :-</u>				
E	Sides of column	m2	633		
F	Sides of stiffner (Provisional)	m2	90		
G	Sides and soffit of suspended beam, horizontal, including strutting up to a height not exceeding 3.50m	m2	1,464		
H	Sides and soffit of roof beam, horizontal, including strutting up to a height exceeding 3.50m high not exceeding 5.00m high	m2	182		
J	Ditto exceeding 5.00m high not exceeding 6.50m high	m2	410		
	Carried to Collection :				
	<u>COLLECTION:-</u>				
	BQ1/B/1				
	BQ1/B/2				
	FRAME CARRIED TO SUMMARY				

DEWAN BANQUET BANGI

BQ1/C/1

DEWAN BANQUET BANGI

BQ1/D/1

B	<u>Extra For</u> scupper drain, 300mm x 50mm deep	m	24
	Steel mesh fabric reinforcement to MS 145 well lapped at joint including notching around all obstructions and bending as required (measured nett - no allowance made for laps) as described:-		
C	A layer of BRC A8 in water tank slab	m2	53
	<u>Use and waste of sawn formwork as described to :-</u>		
D	Soffit of water tank slab including strutting up to a height of exceeding 3.50m and not exceeding 5.00m high	m2	35
E	Edge of slab not exceeding 250mm deep	m	24
	Supply and apply approved water proofing membrane all as per manufacturer's recommendation to the following surfaces :-		
F	Water tank slab	m2	35
G	<u>Extra For</u> bringing up 150mm high to floor or to wall joint	m	24
H	<u>Extra For</u> scupper drain, 300mm x 50mm deep	m	24

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u> i) <u>Roof Structure (Cont'd)</u> The following in 3 nos. steel roof trusses "TRUSS T1" each approximately 20.20m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 15.40m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as top chord	kg	1,382		
B	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as vertical chord	kg	124		
C	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as bottom chord	kg	1,246		
D	150mm x 100mm x 3mm thick x 11.49kg/m RHS as top strut	kg	255		
E	150mm x 100mm x 3mm thick x 11.49kg/m RHS as vertical strut	kg	1,327		
F	150mm x 50mm x 3.0mm thick x 11.49kg/m RHS as diagonal strut	kg	745		
	(End of trusses 'TRUSS T1')				
	The following in 2 nos. structural steel roof trusses "TRUSS T2" each approximately 19.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 7.00m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
G	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as top chord	kg	802		
H	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as vertical chord	kg	165		
J	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as bottom chord	kg	823		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u> i) <u>Roof Structure (Cont'd)</u> The following in 2 nos. structural steel roof trusses "TRUSS T2" each approximately 19.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08 (cont'd)				
A	150mm x 100mm x 3mm thick x 11.49kg/m RHS as vertical strut	kg	743		
B	150mm x 100mm x 3.0mm thick x 11.49kg/m RHS as diagonal strut	kg	710		
	(End of trusses 'TRUSS T2')				
	The following in 2 nos. structural steel roof trusses "TRUSS T3" each approximately 19.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
C	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as top chord	kg	30		
D	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as vertical strut	kg	2,283		
E	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as bottom chord	kg	794		
F	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as diagonal strut	kg	174		
	(End of trusses 'TRUSS T3')				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u>				
	<u>i) Roof Structure (Cont'd)</u>				
	The following in 2 nos. structural steel roof trusses "TRUSS T4" each approximately 19.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as top chord	kg	794		
B	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as vertical chord	kg	165		
C	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as bottom chord	kg	794		
D	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as vertical strut	kg	111		
E	200mm x 100mm x 4.5mm thick x 20.56kg/m RHS as diagonol strut	kg	247		
	<u>(End of trusses 'TRUSS T4')</u>				
	The following in 4 nos. structural steel roof trusses "TRUSS T5" each approximately 6.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
F	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	212		
G	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	158		
H	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	65		
J	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonol strut	kg	246		
	<u>(End of trusses 'TRUSS T5')</u>				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u> i) <u>Roof Structure (Cont'd)</u> The following in 5 nos. structural steel roof trusses "TRUSS T6" each approximately 6.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	525		
B	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	196		
C	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	98		
D	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	116		
E	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	144		
	(End of trusses 'TRUSS T6')				
	The following in 6 nos. structural steel roof trusses "TRUSS T7" each approximately 9.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
F	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	450		
G	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	374		
H	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	202		
J	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	554		
K	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	346		
	(End of trusses 'TRUSS T7')				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u>				
	<u>i) Roof Structure (Cont'd)</u>				
	The following in 2 nos. structural steel roof trusses "TRUSS T8" each approximately 6.30m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	106		
B	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	80		
C	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	68		
D	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	60		
E	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	82		
	<u>(End of trusses 'TRUSS T8')</u>				
	The following in 1 no. structural steel roof trusses "TRUSS T8" each approximately 7.80m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
F	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	62		
G	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	60		
H	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	48		
J	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	68		
K	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	84		
	<u>(End of trusses 'TRUSS T9')</u>				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u>				
	i) <u>Roof Structure (Cont'd)</u>				
	The following in 2 nos. structural steel roof trusses "TRUSS T10" each approximately 9.10m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	136		
B	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	114		
C	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	58		
D	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	78		
E	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	88		
	<u>(End of trusses 'TRUSS T10')</u>				
	The following in 4 nos. structural steel roof trusses "TRUSS T11" each approximately 7.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
F	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	202		
G	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	154		
H	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	34		
J	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	118		
	<u>(End of trusses 'TRUSS T11')</u>				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u> i) <u>Roof Structure (Cont'd)</u> The following in 4 nos. structural steel roof trusses "TRUSS T12" each approximately 7.70m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	512		
B	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	384		
C	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	142		
D	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	228		
E	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	250		
	(End of trusses 'TRUSS T12')				
	The following in 2 nos. structural steel roof trusses "TRUSS T13" each approximately 5.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
F	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	76		
G	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	78		
H	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	50		
J	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	78		
K	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	68		
	(End of trusses 'TRUSS T13')				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u> i) <u>Roof Structure (Cont'd)</u> The following in 4 nos. structural steel roof trusses "TRUSS T14" each approximately 12.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	212		
B	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	178		
C	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	62		
D	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	138		
E	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	154		
	(End of trusses 'TRUSS T14')				
	The following in 2 nos. structural steel roof trusses "TRUSS T15" each approximately 7.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
F	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	126		
G	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	114		
H	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	40		
J	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	80		
K	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	86		
	(End of trusses 'TRUSS T15')				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u>				
	i) <u>Roof Structure (Cont'd)</u>				
	The following in 4 nos. structural steel roof trusses "TRUSS T16" each approximately 12.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	150mm x 100mm x 4.0mm thick x 15.20kg/m RHS as top chord	kg	366		
B	150mm x 100mm x 4.0mm thick x 15.20kg/m RHS as bottom chord	kg	240		
C	150mm x 100mm x 4.0mm thick x 15.20kg/m RHS as vertical chord	kg	38		
D	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical strut	kg	102		
E	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as diagonal strut	kg	88		
	(End of trusses 'TRUSS T16')				
	The following in 2 nos. structural steel roof trusses "TRUSS T17" each approximately 6.00m span fabricated out of Grade 43 mild steel framed and welded together, butt weld all round including all necessary cutting, welding, transportation handling and hoisting in position approximately 9.20m above ground level as per Engineer Drawing No. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
F	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as top chord	kg	78		
G	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as bottom chord	kg	52		
H	100mm x 75mm x 3.0mm thick x 7.96kg/m RHS as vertical chord	kg	28		
J	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as vertical strut	kg	16		
K	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as diagonal strut	kg	22		
	(End of trusses 'TRUSS T17')				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	ROOF (Cont'd)				
	i) Roof Structure (Cont'd)				
	The following in steel structure including steel plate and bolts including all welding, plating, bolting as described to surfaces of shop-primed structural steelwork and any other necessary treatment to the structural members as per Engineer drawing no. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08				
A	100mm x 50mm x 3.0mm thick x 6.78kg/m RHS as chadelier support	kg	82		
B	153mm x 71mm x 2.0mm Thick lipped channel purlin	kg	7,952		
C	12mm Diameter tie rod including nuts, lock and washer	kg	240		
D	100mm x 60mm x 3mm Thick mild steel plate one end welded to sag rod and other end fixed to lipped channel purlin	No.	206		
E	125mm x 75mm x 7mm Thick 'L' shape mild steel plate fixed to lipped channel purlin including 4 nos 10mm diameter mild steel bolt	No.	340		
F	280mm x 350mm x 10mm Thick mild steel plate welded all around together with angle plate complete with 4 nos. 20mm diameter mild steel bolts	No.	23		
G	100mm x 100mm x 10mm Thick 'L' shape mild steel plate both end welded all around to RHS truss	No.	46		
H	200mm x 250mm x 10mm Thick mild steel plate welded all around to mild steel RHS rafter and fixed RC beam complete with 4 nos. 20mm diameter x 150mm long mild steel bolts including 6mm thick non shrink grout	No.	30		
J	200mm x 280mm x 10mm Thick mild steel plate welded all around to mild steel RHS rafter and fixed RC beam complete with 4 nos. 20mm diameter x 150mm long mild steel bolts including 6mm thick non shrink grout	No.	20		
K	200mm x 200mm x 10mm Thick mild steel plate welded all around to mild steel RHS rafter and fixed RC beam complete with 4 nos. 20mm diameter x 150mm long mild steel bolts including 6mm thick non shrink grout	No.	47		
L	150mm x 150mm x 10mm Thick mild steel plate welded all around to angle mild steel plate and fixed RC beam complete with 2 nos. 20mm diameter x 150mm long mild steel bolts including 6mm thick non shrink grout	No.	8		
M	100mm x 100mm x 10mm Thick mild steel plate welded all around to RHS rafter and angle mild steel plate complete with 2 nos. 20mm diameter mild steel bolts	No.	8		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u> i) <u>Roof Structure (Cont'd)</u> The following in steel structure including steel plate and bolts including all welding, plating, bolting as described to surfaces of shop-primed structural steelwork and any other necessary treatment to the structural members as per Engineer drawing no. ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07 & ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08 (Cont'd)				
A	Prepare and apply one coat zinc chromate primer and two coats of micaceous oxide paint to surfaces of all structural steel members	tonne	24		
	ii) <u>Roof Finishes</u> Supply and fix 0.48mm thick TCT clip lock zincalume sheet metal roofing or other equivalent metal decking roof covering in approved colour on 50mm thick board and including requisite adhesive, purlin, fixing clip locks, beading or necessary accessories to close gap between metal decking and wall all as per manufacturer's instruction and as per Architect's drawing (measured nett-no allowance made for laps) Prices shall include manufacturer's guarantee				
B	Roof covering	m2	1,906		
C	<u>Extra For</u> ridge capping	m	31		
D	<u>Extra For</u> hip capping	m	106		
E	<u>Extra For</u> valley gutter	m	36		
F	<u>Extra For</u> bend back side flashing	m	66		
G	<u>Extra For</u> three ways apex capping	No.	7		
H	Approved one layer of double sided fire retardant aluminium woven foil insulation sheet laid on roof framing underneath batten well lapped at joints including galvanised iron wire mesh to manufacturer's detail	m2	1,906		
J	No. 22 Gauge galvanised iron sheet as described flashing, 450mm girth, twice bent, one end dressed over metal decking roof and the other end fixed to concrete or brickwork including mortar bed and point finish all as per Architect's approval	m	150		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROOF (Cont'd)</u>				
	<u>ii) Roof Finishes (Cont'd)</u>				
	<u>Fascia Board</u>				
A	200mm x 25mm Thick UAC fascia board complete with fixing and accessories all as per S.O's approval	m	274		
	Prepare and apply sealer, one undercoat and two finishing coats or approved equivalent weathershield paint as described to :-				
B	General surfaces of fascia board	m2	62		
	<u>iii) Rainwater Disposal</u>				
	Approved Unplasticised Polyvinyl Chloride (UPVC) pipe 'Class C' and fittings jointed with the manufacturer's approved solvent cement with approved fixing all in accordance with the manufacturer's instruction :-				
C	100mm Diameter rainwater downpipe embedded into rc column	m	187		
D	<u>Extra For</u> swan neck	No.	24		
E	<u>Extra For</u> bend	No.	24		
F	100mm Diameter rainwater downpipe embedded into rc slab	m	30		
G	<u>Extra For</u> bend	No.	24		
H	100mm Diameter approved dome roof outlet as described grating	No.	24		
J	Approved Unplasticised Polyvinyl Chloride (UPVC) as described gutter, overall size 180mm x 230mm high, two times bent, both ends dressed on 12mm thick waterproof plywood fixed to roof structure including fixing, painting all accordance to manufacturer's detail and Architect's approval and all as per Architec's drawing no. MPKj 52/PPj/2019/042	m	174		
	Carried to Collection :				

BQ1/E/14

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>STAIRCASE, STEP AND RAMP (Cont'd)</u>				
	<u>Staircase (Cont'd)</u>				
	<u>ii) Staircase Finishes</u>				
	Prepare, substrate, supply and apply 3mm approved skimcoat finish a ready mixed cementitious plaster, comprising of one coat mortar white grey and one coat of emulsion paint all in accordance to the manufacturer's specification and Architect's instruction as described to :-				
A	Soffit of sloping staircase	m2	82		
B	Sloping open string of staircase, 200mm wide (extreme)	m	151		
	<u>Cement and sand (1:3) screed as described:-</u>				
C	19mm Thick to receeding riser of staircase, 175.00mm high to receive ceramic tiles	m	109		
D	Ditto, 173.43mm high ditto	m	52		
E	Ditto, 167.18mm high ditto	m	76		
F	19mm Thick to tread of staircase, 300mm wide to receive ceramic tiles	m	184		
G	19mm Thick to skirting, 100mm high to receive ceramic tiles	m	112		
	600mm x 300mm approved ceramic tiles of approved quality, standard colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
H	Receeding riser of staircase, 175.00mm high	m	109		
J	Ditto, 173.43mm high ditto	m	52		
K	Ditto, 167.18mm high ditto	m	76		
L	Tread of staircase, 300mm wide	m	184		
M	<u>Extra Over</u> for nosing tiles	m	237		
N	Skirting, 100mm high	m	112		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>STAIRCASE, STEP AND RAMP (Cont'd)</u>				
	<u>Staircase (Cont'd)</u>				
	<u>iii) Handrailing</u>				
	<u>Stainless Steel Railing</u>				
A	1000mm High stainless steel railing constructed of 75mm diameter stainless steel circular hollow section top handrail, 50mm x 50mm stainless steel rectangular hollow section as top and bottom rail welded to post, 50mm x 50mm stainless steel rectangular hollow section as post embedded in concrete, 20mm x 20mm stainless steel rectangular hollow section balustrade welded at bottom and top rail all fixed together, including 70mm x 70mm x 6mm thick mild steel plate fixed to wall and plate, 100mm x 100mm x 6mm thick mild steel plate complete with fishtail embeded in concrete and all necessary cutting, assembling, welding etc. as per Architect's detail drawing no. MPKj52/PPj/2019/022	m	16		
	<u>Powder Coated Steel Railing</u>				
B	1000mm High powder coated mild steel railing constructed of 75mm x 75mm square hollow section as top handrail, 525mm x 825mm high perforated powder coated panel, 50mm x 50mm mild steel square hollow section as post embedded in concrete, including 100mm x 100mm x 6mm thick mild steel plate fixed to column and base, 100mm x 100mm x 6mm thick mild steel plate complete with fishtail embeded in concrete and all necessary cutting, assembling, welding, painting etc. as per Architect's detail drawing no. MPKj52/PPj/2019/024, MPKj52/PPj/2019/025, MPKj52/PPj/2019/026 & MPKj52/PPj/2019/027	m	30		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>STAIRCASE, STEP AND RAMP (Cont'd)</u>				
	<u>Step</u>				
	<u>i) Step Structure</u>				
	<u>Vibrated reinforced concrete Grade 30 as described in :-</u>				
A	Step	m3	2		
B	RC kerb, curve on plan	m3	0.4		
	<u>High tensile rod reinforcement as described :-</u>				
C	10mm Diameter in step	kg	228		
D	10mm ~ 32mm Diameter in rc kerb, curve on plan (Provisional)	kg	120		
	<u>Use and waste of sawn formwork as described to:-</u>				
E	Sides of open string of step 300mm wide (extreme)	m	50		
F	Receding riser of step, 300mm high	m	43		
G	Side of rc kerb, curve on plan exceeding 500mm high but not exceeding 750mm high	m	6		
	<u>ii) Step Finishes</u>				
	Prepare, substrate, supply and apply 3mm approved skimcoat finish a ready mixed cementitious plaster, comprising of one coat mortar white grey and one coat of emulsion paint all in accordance to the manufacturer's specification and Architect's instruction as described to :-				
H	To open string of staircase, 200mm wide (extreme)	m	5		
	Cement and sand (1:3) paving with a smooth trowelled finished as described :-				
J	20mm Thick to receding riser of step, 300mm high to receive ceramic tiles	m	43		
K	20mm Thick to tread of step, 300mm wide ditto	m	43		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>STAIRCASE, STEP AND RAMP (Cont'd)</u>				
	<u>Step</u>				
	<u>ii) Step Finishes (Cont'd)</u>				
	Supply and install approved timber board flooring in panel size 1200mm x 200mm x 12mm thick with and including approved 12mm plywood base with rubber underlay, adhesive and fix to floor all in accordance to the manufacturer's specification and instructions				
A	Receding riser of step, 120mm high	m	43		
B	Tread of step, 300mm wide	m	43		
C	<u>Extra Over</u> for heavy duty timber nosing	m	43		
D	100mm x 12mm Thick wrot Grade 'B' timber skirting, moulded on top, plugged and screwed to brickwall	m	10		
E	Knot, prime and stop and apply of three coats of approved clear varnish on skirting exceeding 100mm but not exceeding 200mm high	m	10		
	<u>iii) Handrailing</u>				
	<u>Mild Steel railing</u>				
F	900mm high mild steel railing constructed of 75mm diameter mild steel circular hollow section handrail complete with all necessary cutting, assembling, welding, accessories, painting and etc. all as per Architect's detail drawing no. MPKj52/PPj/2019/054	m	8		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>STAIRCASE, STEP AND RAMP (Cont'd)</u>				
	<u>Ramp</u>				
	<u>i) Ramp Structure</u>				
	<u>Vibrated reinforced concrete Grade 35 as described in :-</u>				
A	150mm Thick ramp slab	m3	6		
	<u>High tensile rod reinforcement as described :-</u>				
B	10mm Diameter ramp slab	kg	295		
C	12mm Diameter ditto	kg	540		
	<u>Use and waste of sawn formwork as described to :-</u>				
D	Soffit of ramp including strutting up to a height not exceeding 3.50m high	m2	36		
E	Edge of ramp slab not exceeding 250mm deep	m	72		
	<u>ii) Ramp Finishes</u>				
	<u>Cement and sand (1:3) paving with a smooth trowelled finished as described :-</u>				
F	25mm Thick to ramp slab	m2	36		
G	<u>Extra For</u> forming groove line 25mm wide x 12mm deep at 300mm centres	m	49		
	<u>Supply and apply approved water proofing system consist of primer coat and 2 coat finishes all as per manufacturer's recommendation to the following surfaces :-</u>				
H	Ramp slab	m2	36		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>STAIRCASE, STEP AND RAMP (Cont'd)</u>				
	<u>iii) Handrailing</u>				
A	900mm High stainless steel railing constructed of 75mm diameter stainless steel circular hollow section top handrail, 50mm x 50mm stainless steel rectangular hollow section as top and bottom rail welded to post, 50mm x 50mm stainless steel rectangular hollow section as post embedded in concrete, 20mm x 20mm stainless steel rectangular hollow section balustrade welded at bottom and top rail all fixed together, including 70mm x 70mm x 6mm thick mild steel plate fixed to wall and plate, 100mm x 100mm x 6mm thick mild steel plate complete with fishtail embeded in concrete and all necessary cutting, assembling, welding etc. as per Architect's detail drawing no. MPKj52/PPj/2019/057, MPKj52/PPj/2019/058, MPKj52/PPj/2019/059, MPKj52/PPj/2019/060	m	40		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>EXTERNAL WALL</u>				
	Brickwork in clay brick in cement and sand (1:3) mortar as described :-				
A	One brick (230mm thick) wall, reinforced with and including a layer of 63mm wide 'Exmet' at every fourth course	m2	31		
B	Half brick (110mm thick) wall, reinforced with and including a layer of 63mm wide 'Exmet' at every fourth course	m2	845		
C	Half brick (110mm thick) wall as brickfence ditto	m2	26		
	<u>Damp proof course as described :-</u>				
D	110mm Wide horizontal damp-proof course as described laid and bedded on cement and sand (1:3) mortar	m	22		
	<u>Sundries</u>				
E	6mm Diameter x 450mm long mild steel bars as bonding tie with one end hooked and cast into concrete and the other end built into joint of brickwork including perforation through formwork	No.	415		
	<u>Reinforced Concrete Coping</u>				
F	150mm Thick reinforced concrete coping fixed to concrete column including all necessary reinforcement, formworks, fixing, plaster, painting etc. all as per S.O's approval	m	58		
	<u>Stainless Steel Railing</u>				
G	1000mm High stainless steel railing constructed of 75mm diameter stainless steel circular hollow section top handrail, 50mm x 50mm stainless steel rectangular hollow section as top and bottom rail welded to post, 50mm x 50mm stainless steel rectangular hollow section as post embedded in concrete, 20mm x 20mm stainless steel rectangular hollow section balustrade welded at bottom and top rail all fixed together, including 70mm x 70mm x 6mm thick mild steel plate fixed to wall and plate, 100mm x 100mm x 6mm thick mild steel plate complete with fishtail embedded in concrete and all necessary cutting, assembling, welding etc. as per Architect's detail drawing no. MPKj52/PPj/2019/049	m	30		
	EXTERNAL WALL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>INTERNAL WALL & PARTITIONS</u>				
	Brickwork in clay brick in cement and sand (1:3) mortar as described :-				
A	One brick (230mm thick) wall, reinforced with and including a layer of 63mm wide 'Exmet' at every fourth course	m2	56		
B	Half brick (110mm thick) wall, reinforced with and including a layer of 63mm wide 'Exmet' at every fourth course	m2	1,319		
	<u>Damp proof course as described :-</u>				
C	110mm Wide horizontal damp-proof course as described laid and bedded on cement and sand (1:3) mortar	m	14		
	<u>Sundries</u>				
D	6mm Diameter x 450mm long mild steel bars as bonding tie with one end hooked and cast into concrete and the other end built into joint of brickwork including perforation through formwork	No.	514		
	<u>Toilet Cubicle</u>				
E	Supply and install approved toilet cubicle overall size 1700mm x 1000mm x 2100mm high consist of 10mm thick finish high pressure laminated phenolic board c/w heavy duty aluminium door frame and complete with natural anodized aluminium channel, stainless steel lockset and accessories all in accordance to the manufacturer's details	No.	10		
	INTERNAL WALL & PARTITIONS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>DOORS</u>				
	Precast concrete Grade 25 with and including all formwork, hoisting and setting in position, bedding, jointing and pointing in cement mortar (1:3) :-				
A	110mm x 150mm as specified lintol, reinforced with and including 4 nos. 12mm diameter high tensile bars with hooked ends and 6mm diameter mild steel stirrups at 150mm centres and formworks, as per Engineer's detail drawing	m	67		
	<u>Wrot pressure treated Grade 'B' timber as described :-</u>				
B	150mm x 150mm Thick architrave, one rebated including all necessary fixing and painting all as per S.O's approval	m	76		
	Supply and install and approved metal door frame manufactured from 1.0mm thickness hot-dipped galvanised steel coil, zinc coated to J.I.S.G 3320 standard epoxy primed one side with 300 grams of zinc per m2 complete with lock striker brick ties, adaptors plate or combination of both and all as per manufacturer's instruction and Architect's Drawing :-				
C	1800mm x 2400mm high (Type D1)	No.	7		
D	1300mm x 2100mm high (Type D2)	No.	5		
E	1800mm x 2100mm high (Type D3)	No.	1		
F	900mm x 2100mm high (Type D5, D5A & D9)	No.	6		
G	1200mm x 2100mm high (Type D6)	No.	2		
H	750mm x 2100mm high (Type D8)	No.	1		
J	1200mm x 2100mm high (Type SD1)	No.	2		
K	1200mm x 2400mm high (Type SD2)	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>DOORS (Cont'd)</u>				
	Doors in wrot pressure treated Grade 'B' timber as described all as per Architect's Drawing approval				
A	<u>PAIR</u> of 38mm Thick approved solid timber door in equal panel overall size 1800mm x 2400mm high including all necessary hardwood stiles, top, bottom and intermediate rail all as per manufacturer's details and hanging on butt hinges (measured separately) (Type D1)	No.	7		
B	<u>PAIR</u> of 38mm Thick approved solid timber door overall size 1300mm x 2100mm high ditto (ditto) (Type D2)	No.	5		
C	38mm Thick approved solid timber door overall size 900mm x 2100mm high including all necessary stiles, top, bottom and intermediate rail all as per manufacturer's details and hanging on butt hinges (measured separately) (Type D5 & D5A)	No.	5		
D	38mm Thick approved solid timber door overall size 1200mm x 2100mm high including all necessary stiles, top, bottom and intermediate rail with waterproofing one side all as per manufacturer's details and hanging on butt hinges (measured separately) (Type D6)	No.	2		
E	38mm Thick approved solid timber door overall size 900mm x 2100mm high ditto (ditto) (Type D9)	No.	1		
F	38mm Thick approved solid timber door overall size 750mm x 2100mm high ditto (ditto) (Type D8)	No.	1		
	<u>Solid Timber Sliding Door</u>				
G	38mm Thick approved solid timber sliding door overall size 1200mm x 2400mm high including all necessary stiles, top, bottom and intermediate rail including 900mm x 400mm high louvres on bottom, 2400mm long track on top with cover, complete with metal door frame, ironmongeries, fixing screws, painting and including all necessary accessories to manufacturer's detail and SO's approval (Type SD2)	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>DOORS (Cont'd)</u>				
	<u>Phenolic Door</u>				
A	Supply and install 30mm thick approved single leaf high pressure laminated phenolic door overall size 750mm x 2100mm high with water proofing both sides complete with door frame, ironmongeries, fixing screws, painting and including all necessary accessories to manufacturer's detail and SO's approval (Type D7)	No.	10		
	<u>Sliding Phenolic Door</u>				
B	Supply and install 30mm thick approved high pressure laminated phenolic sliding door overall size 1200mm x 2100mm high with water proofing both sides including 900mm x 400mm high louvres, 2400mm long track on top with cover, complete with door frame, ironmongeries, fixing screws, painting and including all necessary accessories to manufacturer's detail and SO's approval (Type SD1)	No.	2		
	<u>Fire Door</u>				
	Supply and install complete the following solid timber fire door complete with metal door frame, painting, ironmongeries and mild steel fishtailed holdfast to brickwork or concrete, all to the instructions and recommendations of the manufacturer and to the approval of the Jabatan Bomba Malaysia.				
C	Double leaf 1 hour fire rated door overall size 1800mm x 2400mm high (Type D4)	No.	5		
D	Single leaf 1 hour fire rated door overall size 900mm x 2100mm high (Type D11)	No.	5		
E	Single leaf 1 hour fire rated door overall size 750mm x 2100mm high (Type D10)	No.	7		
	Prepare and apply one coat of metallic primer, one undercoat and two finishing coats of gloss enamel paint on the following surfaces :-				
F	General surfaces of metal frame exceeding 200mm but not exceeding 300mm girth	m	241		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>DOORS (Cont'd)</u>				
	Knot, prime, stop and apply three coats of and approved wood stain on the following surfaces :-				
A	General surface of fire rated door (both sides measured flat overall)	m	84		
B	General surfaces of solid timber door (both sides measured flat overall)	m	141		
	<u>Ironmongeries</u>				
	Supply and install the following or approved equivalent ironmongery including all necessary matching screws all as per manufacturer's instruction and SO's Approval				
C	Approved 102mm x 76mm x 2.0mm plain bearing hinges in stainless steel finish	No.	198		
D	Approved entrance level handle lockset	No.	10		
E	Approved deadbolt lockset	No.	10		
F	Approved cylindrical lockset	No.	32		
G	Approved toilet lockset	No.	10		
H	Approved wall mounted door stopper	No.	59		
J	Approved 150mm anodised aluminium barrel bolt	No.	42		
K	Approved heavy duty door closer	No.	55		
L	Masterkeying system	Item	-	-	
	Approved mild steel grille constructed of 25mm x 25mm steel hollow section angle frame all round and infilled with and including 12mm x 12mm mild steel square hollow section grille, welded together including all necessary accessories, ironmongeries and painting all as per S.O's approval				
M	Door opening 1800mm wide x 2400mm high	No.	12		
N	Door opening 1300mm wide x 2100mm high	No.	5		
P	Door opening 900mm wide x 2100mm high	No.	9		
Q	Door opening 750mm wide x 2100mm high	No.	7		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>DOORS (Cont'd)</u> Approved wrought iron grille constructed of 25mm x 25mm steel hollow section angle frame all round and infilled with and including 16-20mm diameter wrought iron grille, welded together including all necessary accessories, ironmongeries and painting all as per S.O's approval				
A	Door opening 750mm wide x 1800mm high	No.	1		
	<u>Sundries</u> <u>Decorative PVC Leather</u>				
B	Supply and install approved Decorative PVC leather of approved quality, colour and pattern including framing with appropriate underlay and adhesive to wall and all other necessary fixing, fitting and accessories all as per S.O's approval	m2	8		
	<u>Laminated Wood Finish</u>				
C	Supply and install 3mm thick approved laminated wood finish of approved quality, colour and pattern including all necessary fixing, fitting and accessories all as per S.O's approval	m2	55		
	Carried to Collection :				
	<u>COLLECTION:-</u> BQ1/J/1 BQ1/J/2 BQ1/J/3 BQ1/J/4 BQ1/J/5				
	DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WINDOW AND FIXED PANEL</u>				
	Precast concrete Grade 25 with and including all formwork, hoisting and setting in position, bedding, jointing and pointing in cement mortar (1:3) :-				
A	110mm x 150mm as specified lintol, reinforced with and including 4 nos. 12mm diameter high tensile bars with hooked ends and 6mm diameter mild steel stirrups at 150mm centres and formworks, as per Engineer's detail drawing	m	34		
	<u>Foamcrete Coping</u>				
B	100mm x 100mm Thick foamcrete coping including forming 12mm diameter throating and all necessary reinforcement, formwork, fixing, plaster and painting all as per S.O's approval	m	87		
	Supply, deliver and fix the following powder coated aluminium frame panelling window with and including framing, transome, mullion, glazing beads, PVC gasket, fixing screws and all necessary ironmongery and painting (glass measured separately) all as per Architect's Drawing No. MPKj 52/PPj/2019/019 & MPKj 52/PPJ/2021/020				
C	Top hung casement window overall size 600mm x 600mm high (Type W1A)	No.	2		
D	Composite window unit overall size 1200mm x 600mm high comprising of 2 nos. equal panel top hung window each size 600mm x 600mm high (Type W1)	No.	2		
E	Ditto, overall size 1800mm x 600mm high comprising of 3 nos. equal panel top hung window each size 600mm x 600mm high (Type W3)	No.	1		
F	Ditto, overall size 3000mm x 600mm high comprising of 5 nos. equal panel top hung window each size 600mm x 600mm high (Type W4)	No.	4		
G	Ditto, overall size 1800mm x 2100mm high comprising of 2 nos. equal panel side hung casement window each size 900mm x 2100mm high (Type W2)	No.	4		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>WINDOW AND FIXED PANEL (CONT'D)</u></p> <p>Supply, deliver and fix the following powder coated aluminium frame panelling window with and including framing, transome, mullion, glazing beads, PVC gasket, fixing screws and all necessary ironmongery and painting (glass measured separately) all as per Architect's Drawing No. MPKj 52/PPj/2019/019 & MPKj 52/PPj/2019/020 (Cont'd)</p>				
A	<p>Composite window unit overall size 3200mm x 1200mm high comprising of 2 nos. equal panel side hung window each size 600mm x 1200mm high, 1 no. fixed glass panel size 800mm x 1200mm high and 1 no. fixed glass panel size 1200mm x 1200mm high</p> <p>(Type W5)</p>	No.	1		
B	<p>Ditto, overall size 1200mm x 1200mm high comprising of 1 no. sliding glass window size 600mm x 1200mm high and 1 no. fixed glass window size 600mm x 2100mm high including sliding track</p> <p>(Type W6)</p>	No.	2		
C	<p>6mm Thick clear glass panel as described including cutting glass to the required size, waste and cleaning inside and outside on completion and glazing to aluminium frame windows</p> <p>Approved mild steel grille constructed of 25mm x 25mm steel hollow section angle frame all round and infilled with and including 12mm x 12mm mild steel square hollow section grille, welded together including all necessary accessories, ironmongeries and painting all as per Architect's approval</p>	m2	32		
D	Window opening 1800mm wide x 2100mm high	No.	4		
E	Window opening 1800mm wide x 600mm high	No.	1		
F	Window opening 3000mm wide x 600mm high	No.	4		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WINDOW AND FIXED PANEL (CONT'D)</u> <u>COLLECTION:-</u> BQ1/K/1 BQ1/K/2				
	WINDOW AND FIXED PANEL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>FLOOR FINISHES</u>				
	<u>Externally</u>				
	Cement and sand (1:3) paving with a smooth trowelled finished as described :-				
A	25mm Thick to floor	m2	4		
B	<u>Extra For</u> forming 150mm wide x 50mm depth scupper drain	m	35		
	<u>Cement and sand (1:3) screed as described :-</u>				
C	19mm Thick to floor to receive ceramic tiles	m2	187		
D	19mm Thick to skirting, 100mm high	m	110		
	600mm x 600mm x 10mm thick approved non-slip ceramic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
E	Floor,laid to falls	m2	57		
F	Skirting, 100mm high	m	26		
	600mm x 300mm x 10mm thick approved ceramic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
G	Floor	m2	21		
H	Skirting, 100mm high	m	35		
	800mm x 800mm x 10mm thick approved ceramic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
J	Floor	m2	109		
K	Skirting, 100mm high	m	49		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>FLOOR FINISHES (Cont'd)</u>				
	<u>Internally</u>				
	Cement and sand (1:3) paving with a smooth trowelled finished as described :-				
A	25mm Thick to floor	m2	1,341		
B	<u>Extra For</u> forming 150mm wide x 50mm depth scupper drain	m	122		
C	25mm Thick to drop, 50mm high	m	16		
D	Ditto, 100mm high	m	1		
E	25mm Thick to floor to receive carpet	m2	829		
F	25mm Thick to floor to receive timber board flooring	m2	65		
	<u>Cement and sand (1:3) screed as described :-</u>				
G	19mm Thick to floor to receive ceramic tiles	m2	141		
H	19mm Thick to skirting, 100mm high	m	58		
J	19mm Thick to drop, 50mm high	m	5		
K	19mm Thick to floor to receive non-slip ceramic tiles, laid to falls	m2	110		
L	19mm Thick to drop, 50mm high	m	9		
	600mm x 600mm approved ceramic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
M	Floor	m2	47		
	600mm x 300mm approved ceramic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
N	Floor	m2	94		
P	Skirting, 100mm high	m	58		
Q	Drop, 50mm high	m	5		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>FLOOR FINISHES (Cont'd)</u> <u>Internally (Cont'd)</u> 600mm x 300mm approved non-slip ceramic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
A	Floor,laid to falls	m2	110		
B	Drop, 100mm high	m	9		
	Supply and lay approved roll carpet with permanent stain resistance at a weight of 38oz/sq yard, of approved quality, standard colour and pattern, set out symmetrically from centre of room with approved adhesive and including all necessary cutting, jointing, angles, bends, narrow width, laid on floor paving (measured separately) all in accordance with specification and the manufacturer's instruction				
C	Floor	m2	829		
D	125mm x 12mm Thick composite skirting, pluggeed and screwed to brickwall	m	132		
E	15mm wide x 4mm thick approved stainless steel dividing strip laid between finishes	m	16		
	<u>Timber Flooring Board</u>				
F	Supply and install approved timber board flooring in panel size 1200mm x 200mm x 12mm thick with and including approved 12mm plywood base with rubber underlay, adhesive and fix to floor all in accordance to the manufacturer's specification and instructions	m2	65		
G	100mm x 12mm Thick wrot Grade 'B' timber skirting, moulded on top, plugged and screwed to brickwall	m	28		
H	Knot, prime and stop and apply of three coats of approved clear varnish on skirting exceeding 100mm but not exceeding 200mm high	m	28		
	Carried to Collection :				

BQ1/M/1

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WALL FINISHES (Cont'd)</u> <u>Internally (Cont'd)</u> Prepare and apply sealer, one undercoat and two finishing coats or approved equivalent emulsion paint as described to :- <hr/>				
A	To wall and column	m2	3,166		
	<u>Acoustic Panel</u> B Supply and install approved acoustic fabric finish panelling complete with timber support system with 10mm thick plywood and fiberglass insulation infill, all fixed in accordance manufacturer's instruction and recommendation all as per S.O's approval	m2	335		
	<u>Premium Korean Wallpaper</u> C Supply and install 0.35mm thick approved premium 3D wallpaper with approved quality, design and pattern including approved adhesive fix on wall all in accordance with specification and the manufacturer's instruction	m2	84		
	Carried to Collection :				
	<u>COLLECTION:-</u> BQ1/M/1 BQ1/M/2				
	WALL FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>CEILING FINISHES</u>				
	<u>Externally</u>				
	Supply and fix approved aluminium strip ceiling as described complete with aluminium panel joiner, carrier rail joiner, painting and all necessary fixing accessories all in accordance with manufacturer's instruction and S.O's approval				
A	To flat area including fixing at a height exceeding 3.50m high and not exceeding 5.00m high	m2	120		
B	To roof eaves including fixing at a height exceeding 5.00m high and not exceeding 6.50m high	m2	102		
C	To roof eaves including fixing at a height exceeding 6.50m high and not exceeding 8.00m high	m2	415		
	<u>Internally</u>				
	Prepare, substrate, supply and apply 3mm approved skimcoat finish a ready mixed cementitious plaster, comprising of one coat mortar white grey and one coat of emulsion paint all in accordance to the manufacturer's specification and Architect's instruction as described to :-				
D	To soffit upper floor slab and beam	m2	1,285		
	Supply and install approved plain flush-jointed fibrous plaster ceiling on and including support and framing including providing access panel, openings for light fittings, grilles, recess and all necessary fixing in accordance with the manufacturer's instruction to:-				
E	To flat area including fixing at a height exceeding 3.50m high and not exceeding 5.00m high	m2	1,060		
F	<u>Extra Over</u> lightbox ceiling overall size 3150mm x 3150mm wide	No.	3		
G	<u>Extra Over</u> lightbox shaped ceiling overall size 5400mm x 5400mm wide	No.	2		
H	<u>Extra Over</u> lightbox ceiling overall size 5400mm x 5400mm wide	No.	1		
J	<u>Extra For</u> lightbox ceiling overall size 13800mm x 5000mm wide	No.	4		
K	<u>Extra For</u> forming 600mm x 600mm access panel including all necessary framing	No.	10		
L	<u>Extra Over</u> 65mm x 65mm approved plasterglass plain cornice	m	30		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>CEILING FINISHES (Cont'd)</u>				
	<u>Internally (Cont'd)</u>				
	Supply and install approved gypsum board ceiling in size 600mm x 600mm x 12mm thick panel set out symmetrically from the centre of the area with exposed aluminium suspension system (measured separately) all as per S.O's approval				
A	To flat area including fixing at height exceeding 3.50m and not exceeding 5.00m high	m2	192		
	Supply and install approved 12mm thick fire resistance board ceiling on including support and framing, openings for light fittings and all necessary fixing in accordance with the manufacturer's instruction to:-				
B	To flat area including fixing at height exceeding 3.50m and not exceeding 5.00m high	m2	16		
C	Natural anodised extruded aluminium 'T' as exposed suspension system suspended by 14 S.W.G. galvanised wire hangers with adjustable height and hooked to bars and the other and fixed to concrete soffit by eye lit pins or hook at a height exceeding 3.50m high and not exceeding 5.00m high	m2	208		
	Prepare and apply sealer, one undercoat and two finishing coats of emulsion paint as described to:-				
D	General surface of fire board ceiling exceeding 3.50m high and not exceeding 5.00m high	m2	16		
E	General surface of gypsum board ceiling exceeding 3.50m high and not exceeding 5.00m high	m2	192		
F	General surface of plaster ceiling exceeding 3.50m high and not exceeding 5.00m high	m2	1,060		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>CEILING FINISHES (Cont'd)</u></p> <p><u>COLLECTION:-</u></p> <p>BQ1/N/1</p> <p>BQ1/N/2</p>				
	CEILING FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>SANITARY FITTINGS</u></p> <p>Supply and fix the following approved coloured vitreous china sanitary fittings in standard colour and accessories including storing, assembling, bedding, plugging and screwing with matching screws, cutting and pinning or building in brackets, jointing and connecting to services and soil pipe and making good all work disturbed :-</p>				
A	Approved pedestal water closet with S trap complete with exposed stainless steel flush valve, pan connector and heavy duty seat and cover in match colour	No.	10		
B	Approved handicap pedestal water closet ditto	No.	3		
C	Approved squatting water closet pan complete with intergral foot treads and exposed stainless steel flush valve	No.	4		
D	Approved console basin size 400mm x 575mm x 210mm	No.	17		
E	Approved handicap wall hung basin with centre tap hole, with bottle trap, pop-up waste brackets, pedestal and including all necessary accessories fixing and jointing outlet to waste pipe	No.	2		
F	Approved paper towel dispenser with waste receptacle	No.	24		
G	Approved semi recessed soap dish	No.	15		
H	Approved ceramic wall shelf	No.	13		
J	Approved 1/2" chrome plated regency pillar tap with chrome plated ABS handle	No.	34		
K	Approved hand bidet complete with flexible hose, wall bracket & brass nozzle with chrome plated ABS handle	No.	17		
L	Approved brass wall flanged stop cock	No.	4		
M	Approved stainless steel floor trap size 150mm x 150mm	No.	27		
N	Approved stainless steel, 1.2mm thick with a peened finished grab bars sets in disable toilet consisting of a straight type grab rail, support hinged rail U-shaped grab rail all accordance all to be concealed mounting and all necessary fixing as per S.O's approval	No.	3		
P	Approved stainless steel kitchen sink, two bowl, two drainer, complete with stainless steel pillar mounted sink tap with quarter turn metal knob handle with standard waste water outlet, plug and chain, bottle trap including setting to wall tiles	No.	2		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SANITARY FITTINGS (Cont'd)</u> Supply and fix the following approved coloured vitreous china sanitary fittings in standard colour and accessories including storing, assembling, bedding, plugging and screwing with matching screws, cutting and pinning or building in brackets, jointing and connecting to services and soil pipe and making good all work disturbed :- (Cont'd)				
A	Supply and install baby flip table size 623mm x 416mm fixing to wall including all necessary fitting and accessories all as per SO's approval	No.	1		
	Supply and fix 8mm Thick glass mirror with bevelled edge and hidden fixing as described :-				
B	Overall size 2700mm x 1000mm high	No.	2		
C	Ditto size 2100mm x 1000mm high	No.	4		
D	Ditto size 1900mm x 1000mm high	No.	1		
E	Ditto size 850mm x 1000mm high	No.	4		
	Carried to Collection :				
	<u>COLLECTION:-</u> BQ1/P/1 BQ1/P/2				
	SANITARY FITTINGS CARRIED TO SUMMARY :				

BQ1/Q/1

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SUNDRIES</u>				
	<u>Cat Ladder</u>				
A	Supply, deliver and install mild steel cat ladder overall size 3500mm x 750mm comprising of 50mm x 50mm mild steel RHS as frame, 50mm diameter mild steel CHS as tread weld to mild steel frame, fixed to brickwall/concrete completed with necessary fixings, screw, bolts, nuts, painting etc. all as per Architect's drawing no. MPKj52/PPj/2019/046 and S.O's approval	No.	1		
	<u>Manhole Cover</u>				
B	Supply and install mild steel chequered plate overall size 900mm x 900mm as manhole cover complete with all necessary accessories, fixing, painting all per Architect's drawing no. MPKj52/PPj/2019/046 and S.O' approval	No.	1		
	<u>Decorative CLC Foam Panel</u>				
C	Supply and install 1500mm x 1400mm high decorative CLC foam panel fix to wall and column including aluminium framing and all necessary accessories, fixing and painting all as per manufacturer's details and SO's approval	No.	39		
	<u>Box-up Column</u>				
D	Construct and complete 110mm thick brick as box-up to column reinforced with a layer of 63mm wide 'Exmet' at every fourth course including cement plaster and painting to all around all as per SO's approval	m2	32		
	<u>Fabric curtain</u>				
E	Supply and install approved fabric curtain of approved quality, colour and pattern complete with all necessary railing, fitting, fixing, accessories and etc all as per Architect's approval	m2	15		
	SUNDRIES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	FROM PAGES	AMOUNT (RM)
<u>SUMMARY</u>			
A	WORK BELOW LOWEST FLOOR LEVEL	BQ1/A/5	
B	FRAME	BQ1/B/2	
C	STRUCTURE WALL	BQ1/C/1	
D	UPPER FLOOR SLAB	BQ1/D/1	
E	ROOF	BQ1/E/14	
F	STAIRCASE, STEP AND RAMP	BQ1/F/8	
G	EXTERNAL WALL	BQ1/G/1	
H	INTERNAL WALL	BQ1/H/1	
J	DOOR	BQ1/J/5	
K	WINDOWS	BQ1/K/3	
L	FLOOR FINISHES	BQ1/L/4	
M	WALL FINISHES	BQ1/M/2	
N	CEILING FINISHES	BQ1/N/3	
P	SANITARY FITTING	BQ1/P/2	
Q	BUILDER'S WORK IN CONNECTION WITH SERVICES	BQ1/Q/1	
R	SUNDRIES	BQ1/R/1	
BILL NO. 1 - BUILDING WORKS CARRIED TO SUMMARY OF TENDER :			

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>DEMOLITION WORKS</u></p> <p><u>NOTES :</u></p> <p>The Contractor's attention is drawn to the fact that the Bills of Quantities given below are merely for the Contractor's guidance only.</p> <p>The Contractor is strongly advised to visit and familiarise himself the conditions of the proposed site with regards to the types of works to be demolished as no claims will later be entertained on the grounds of lack of knowledge on the extent of the works and shall be held responsible for all charges, permits etc. by the Local Authorities</p> <p>Prices for all works for demolition are to include labour, plant and materials for any temporary shoring, needlings, strutting, scaffolding, screens, etc. and any other temporary works necessary in connection there with and for basketting out, multiple handling and for carting away all debris and rubbish</p> <p>Prices are to include for executing the whole of the works in sections and sequence as may be directed by the S.O.</p> <p>All unwanted materials arising from the demolition works are to become the property of the Contractor who shall remove them away from site to contractor own dumping site</p> <p>All usable materials arising from the demolition works is to become the property of Employer and the Contractor shall allow credit for materials which will be decided by the Employer</p> <p>Before commencing demolition of the various section of work, the Contractor must ensure the stability of the remaining sections by providing all necessary shores, supports, underpinning, etc. as the situation dictates, failing which the Contractor shall bear all cost with regard to any damage caused due to the above. The prices for demolition works are to include for all these provisions</p> <p>A Demolish and remove all existing structures and sub-structures of single-storey reinforced concrete building including finishes, existing wall, door and window, perimeter drain, terminate services and take down fittings as required including remove all debris away from site and make good all work disturbed (Approximate area :1,066m2)</p> <p>B Demolish existing entrance pathway, brick sump and pipe culvert including remove all debris away from site and make good all work disturbed (Approximate length : 10m)</p> <p>C Demolish existing drain including remove all debris away from site and make good all work disturbed (Approximate length :197m)</p>				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>DEMOLITION WORKS (Cont'd)</u> <u>NOTES : (Cont'd)</u> The Contractor's attention is drawn to the fact that the Bills of Quantities given below are merely for the Contractor's guidance only. (Cont'd)				
A	Remove existing tarmac including remove all debris away from site and make good all work disturbed (Approximate area : 967m2)	LS	-	-	
B	Demolish existing steps including remove all debris away from site and make good all work disturbed (Approximate area : 10m2)	LS	-	-	
C	Demolish existing septic tank/manhole including remove all debris away from site and make good all work disturbed (Approximate quantity : 7nos)	LS	-	-	
D	Demolish existing chainlink fence, brick wall fence, mild steel gate and concrete kerb/strip footing including remove all debris away from site and make good all work disturbed (Approximate length : 197m)	LS	-	-	
	Carried to Collection :				
	<u>COLLECTION : -</u> BQ2/A/1 BQ2/A/2				
	DEMOLITION WORKS CARRIED TO SUMMARY:				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SITE CLEARANCE & EARTHWORKS</u>				
A	Clear the whole of the site for construction including cutting all grass, shrubs, bushes, small and big trees and existing structures including grubbing up roots all debris away from site to the Contractor's own dumping area	m2	7,531		
B	Excavate oversite to remove top soil average 150mm deep commencing from original ground levels, get out, transport and making up levels and remove surplus excavated material from site to Contractor's own dumping ground	m3	875		
C	Excavation in bulk of all materials other than rock including hard materials to platform levels, get out, load and transport to fill area within the site, spread and compacted in layers as described to make up levels as directed including forming of slope embankment, temporary earthdyke or earthbund to entire satisfaction of the S.O	m3	295		
D	Excavation in bulk of all materials other than rock including hard materials to platform levels, get out, load and transport and remove away from site to Contractor's own dumping site to entire satisfaction of the S.O	m3	110		
	<u>Temporary Earth Drain</u>				
E	Construct and complete temporary earth drain, overall size 1200mm x 450mm deep including all necessary excavation, forming side of drain, trimming and compacting the surfaces of excavation all as shown in the drawing including regular maintenance works, removal and make good upon completion	m	144		
	<u>Temporary Interlocking Pavement</u>				
F	Construct and complete temporary heavy duty interlocking pavers overall size 15.00m length x 7.00m wide and including all necessary excavation, sand bedding, concrete, reinforcement, formwork, 80mm thick concrete paving block, asphaltic concrete premix etc. during maintenance works, removal and make good upon completion	No.	1		
	<u>Temporary Silt Trap</u>				
G	Construct and maintain temporary silt trap approximately overall size 8.00m x 18.00m x 1.20m deep including forming outlet to existing drain as shown on drawing including coarse gravel filter complete with perforated pipe riser, emergency spillway and all necessary works, outlet pipe, desilting, altering and adapting to site condition as works proceed and during maintenance period as directed by the Engineer	No.	1		
	Carried to Collection :				

DEWAN BANQUET BANGI

BQ2/B/2

BILL NO.2 - EXTERNAL WORKS (ALL PROVISIONAL)

DEWAN BANQUET BANGI

[illegible]

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROAD AND CARPARK</u>				
	<u>Access Road</u>				
	<u>Temporary Traffic Control and Signage</u>				
A	Allow for temporary traffic control and signage including traffic personal, temporary traffic barrier, warning flasher, signage, banner and comply with all standard requirement and safety precautions all as per Engineer's drawing no. ARZEC/TF2020/MPKJ/DBBANGI/SEK.2/01 and all to S.O's approval	L.S.	-	-	
	<u>Resurface Work</u>				
B	Mark, scarify, remove and dispose 50mm thick existing pavement surface including clean and prepare the surface to receive new premix including remove all debris away from site to contractor own dumping site and make good all work disturbed	m2	1,026		
C	Spray surface of formation with tack coat as approved or equivalent bituminous emulsion	m2	1,026		
D	50mm Thick asphaltic concrete wearing course (ACWC 14) laid and compacted as described	m2	1,026		
	<u>New Road</u>				
E	50mm Thick compacted sand blinding as sub-base, spread and levelled to falls and chambers and well rolled and compacted and blinded to receive crusher run (measured separately)	m2	159		
F	300mm Thick (finished) complete crusher run, spread and levelled to falls and cambers and well rolled and compacted and blinded with quarry waste to receive premix asphaltic concrete surfacing (measured separately)	m2	159		
G	Spray surface of formation with prime coat as approved or equivalent bituminous emulsion	m2	159		
H	50mm Thick asphaltic concrete binder course (ACBC 28) laid and compacted as described	m2	159		
J	Spray surface of formation with tack coat as approved or equivalent bituminous emulsion	m2	159		
K	50mm Thick asphaltic concrete wearing course (ACWC 14) laid and compacted as described	m2	159		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROAD AND CARPARK (Cont'd)</u>				
	<u>Internal Road Works</u>				
A	Excavate oversite to reduce level commencing from platform level maximum depth not exceeding 1.00m and get out, part return, fill in and ram and deposit and spread in making up level where directed within the site and remainder load and cart away	m3	441		
B	Trim, grade and compact surface of road formation to falls, cross falls and cambers including filling in ruts, low and weak spot with suitable materials as described to receive sub-base course	m2	979		
C	50mm Thick compacted sand blinding as sub-base, spread and levelled to falls and chambers and well rolled and compacted and blinded to receive crusher run (measured separately)	m2	979		
D	300mm Thick (finished) complete crusher run, spread and levelled to falls and cambers and well rolled and compacted and blinded with quarry waste to receive premix asphaltic concrete surfacing (measured separately)	m2	979		
E	Spray surface of formation with prime coat as approved or equivalent bituminous emulsion	m2	979		
F	50mm Thick asphaltic concrete binder course (ACBC 28) laid and compacted as described	m2	979		
G	Spray surface of formation with tack coat as approved or equivalent bituminous emulsion	m2	979		
H	50mm Thick asphaltic concrete wearing course (ACWC 14) laid and compacted as described	m2	979		
	<u>Concrete Kerb</u>				
J	Cast in-situ Grade 25 as described kerb overall size 500mm x 300mm high, splayed at top including all necessary round, corners and angles, junctions, excavation, reinforcement, lean concrete and formwork all as per drawing no. ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/03	m	214		
K	Ditto curve on plan ditto	m	38		
L	<u>Extra For</u> opening overall size 225mm diameter	No.	84		
M	Prepare and apply in alternate lengths of 600mm with white and black paint to surfaces of kerb exceeding 200mm but not exceeding 300mm girth	m	252		
	Carried to Collection :				

DEWAN BANQUET BANGI

BQ2/D/3

BQ2/D/4

DEWAN BANQUET BANGI

B	150mm Thick vibrated reinforced concrete Grade 25 as described for concrete slab	m3	50
	Steel mesh fabric reinforcement to MS 145 well lapped at joint including notching around all obstructions and bending as required (measured nett - no allowance made for laps) as described:-		
C	A layer of BRC A7 in concrete slab	m2	332
	<u>Use and waste of sawn formwork as described to :-</u>		
D	Edges of concrete slab not exceeding 250mm deep	m	682
E	Supply and lay concrete imprint of approved pattern and colour in accordance to the manufacturer's specifications and S.O's approval	m2	332
	<u>RC slab Water Meter</u>		
F	Construct and complete 5200mm x 1800mm x 300mm thick reinforced concrete slab water meter including all necessary excavation, concrete, reinforcement, formwork and finishes all as per SO's approval	No.	1

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>ROAD AND CARPARK (Cont'd)</u>				
	<u>Testing</u>				
A	Allow for complying for all testing required in the specification make good any defect and including preparing, compiling and submitting the necessary form, test records etc.	Item	-	-	
	<u>Connection</u>				
B	Allow for connection to existing road and making good upon completion	Item	-	-	
	Carried to Collection :				
	<u>COLLECTION : -</u>				
	BQ2/D/1				
	BQ2/D/2				
	BQ2/D/3				
	BQ2/D/4				
	BQ2/D/5				
	BQ2/D/6				
	ROAD AND CARPARK CARRIED TO SUMMARY:				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>FENCING AND GATES</u>				
	<u>Brickwork Fencing</u>				
A	Construct and complete 1800mm overall high brickwall fencing comprising of 110mm thick brickwall 1100mm high, 300mm high reinforced concrete strip footing as foundation, 450mm x 450mm x 1350 high reinforced concrete column complete with 150mm thick concrete coping and all necessary excavation, hardcore, formworks, concrete, reinforcements, plaster, painting, expansion joint, weephole etc all as per Architect's Drawing No. MPKj52/PPj/2019/069	m	5		
	<u>Galvanised Iron Security Fencing</u>				
B	Supply and install 1800mm high hot dipped galvanised iron fencing complete hollow section hot dipped galvanised post at 3000mm centre, 38mm x 2.3mm thick galvanised flat bar and including 300mm x 150mm x concrete kerbs, 300mm x 300mm high stump and all necessary excavation, reinforcement, formworks, painting etc all as per Architect's drawing no. MPKj52/PPj/2019/070 and S.O's approval	m	315		
	<u>Sliding Gates</u>				
C	Supply and install pair of wrought iron sliding gate overall size 6100mm x 1800mm high with wrought iron main frame, vertical and horizontal members completed with heavy duty mild steel railing track, heavy duty roller and including all necessary fixing, accessories, ironmongeries, painting etc. all as per Architect's drawing no. MPKj 52/PPj/2019/068 and S.O's approval	No.	1		
	<u>Wrought Iron Side Gate</u>				
D	Supply and install wrought iron gate overall size 750mm x 1800mm high including frame, painting, ironmongeries and mild steel fishtailed holdfast to brickwork or concrete, etc. all as per Architect's drawing no. MPKj 52/PPj/2019/068 and S.O's approval	No.	1		
	FENCING AND GATES CARRIED TO SUMMARY :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SURFACE WATER DRAINAGE</u>				
	The Following 300mm width V Shaped Precast Block Drain (Type A)				
A	Excavate trench commencing from formation level for surface water drain maximum depth not exceeding 2.00m deep and get out, part return, fill in and ram, deposit and spread in making up levels where directed within the site and remainder load and cart away from site	m3	197		
B	50mm Thick lean concrete Grade 15 as described under concrete base	m3	8		
C	Vibrated reinforced concrete Grade 20 as described in concrete base	m3	38		
D	12mm Diameter mild steel dowel bar reinforcement as described in concrete base	kg	52		
E	230mm high use and waste of sawn formwork as described to edges of concrete base	m	346		
F	225mm Thick in cement and sand brick in cement and sand (1:3) mortar as described drain wall	m2	187		
G	100mm Diameter earthen ware pipe as weepholes, 250mm average long as described bedded in drain wall	No	173		
H	20mm Thick cement and sand (1:6) as described plainface to top and side of drain wall	m2	190		
J	Approved 300mm x 230mm x 300mm of approved aggregate as described filtering media arranged to opening of 100mm diameter weephole (measured separately)	No	173		
K	600mm x 100mm x 100mm Thick in-situ concrete strut with and including setting ends into brickwall and all necessary formwork, reinforcement, etc as per drawing no. ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	No	58		
L	300mm width V shaped precast block drain complete with lip in 600mm length and laid to falls bedded in concrete bed (measured separately) including jointed in cement and sand (1:3) mortar all as Engineer's drawing no. ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	m	173		
M	<u>Extra Over</u> for cascade drain including all necessary excavation, concrete base and drain wall in completion to form cascading drain as described	m	10		
	(End of 300mm width V Shaped Precast Block Drain Type A)				
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SURFACE WATER DRAINAGE (Cont'd)</u>				
	The Following 300mm width V Shaped Precast Block Drain (Type B)				
A	Excavate trench commencing from formation level for surface water drain maximum depth not exceeding 2.00m deep and get out, part return, fill in and ram, deposit and spread in making up levels where directed within the site and remainder load and cart away from site	m3	40		
B	50mm Thick lean concrete Grade 15 as described under concrete base	m3	2		
	<u>Vibrated reinforced concrete Grade 20 as described in :-</u>				
C	225mm Thick in concrete drain wall	m3	11		
D	230mm Thick in concrete base	m3	6		
	<u>Steel mesh fabric reinforcement to MS 145 well lapped at joint including notching around all obstructions and bending as required (measured nett - no allowance made for laps) as described:-</u>				
E	A layer of BRC A8 in concrete drain wall	m2	46		
F	Ditto in concrete base	m2	27		
	<u>Use and waste of sawn formwork as described to :-</u>				
G	Use and waste of sawn formwork as described in concrete drain wall exceeding 500mm high but not exceeding 1.00m high	m	56		
H	300mm high use and waste of sawn formwork as described to edges of concrete base	m	56		
J	20mm Thick cement and sand (1:6) as described plainface to top and side of drain wall	m2	46		
K	100mm Diameter earthen ware pipe as weepholes, 250mm average long as described bedded in drain wall	No	28		
L	Approved 300mm x 230mm x 300mm of approved aggregate as described filtering media arranged to opening of 100mm diameter weephole (measured separately)	No	28		
M	600mm x 100mm x 100mm Thick in-situ concrete strut with and including setting ends into brickwall and all necessary formwork, reinforcement, etc as per drawing no. ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	No	10		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SURFACE WATER DRAINAGE (Cont'd)</u>				
	<u>The Following 300mm width V Shaped Precast Block Drain (cont'd)</u>				
A	300mm width V shaped precast block drain complete with lip in 600mm length and laid to falls bedded in concrete bed (measured separately) including jointed in cement and sand (1:3) mortar all as Engineer's drawing no. ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	m	28		
B	Construct and complete 950mm x 600mm x 100mm thick concrete cover slab placing in position including all necessary reinforcement, formworks, finishes all as per Engineer's detail drawing no. ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	No	47		
C	600mm x 450mm Heavy duty mild steel grating constructed of 50mm x 50mm x 8mm thick as horizontal plate, 50mm x 50mm x 6mm as vertical plate welded all around including 6mm thick angle steel frame, 16mm diameter bar fixed to concrete slab including painting with two layer on anti oxide and one coat back bituminous paint all as Engineer's detail drawing no. ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	No	10		
	(End of 300mm V Shaped Precast Block Drain Type B)				
	<u>The following in 3 Nos. Brick Sump</u>				
D	Excavate pit for sump maximum depth not exceeding 2.00m deep and get out, part return, fill in and ram, deposit and spread in making up levels where directed within the site and remainder load and cart away from site	m3	4		
E	Ditto not exceeding 3.00m deep ditto	m3	6		
F	50mm Thick lean concrete Grade 15 as described blinding screed, spread and levelled under concrete base	m3	0.3		
G	230mm Thick vibrated reinforced concrete Grade 20 as described in base	m3	1		
H	230mm Thick in cement and sand brick in cement and sand (1:3) mortar as described sump wall	m2	30		
J	230mm x 200mm Thick reinforced concrete coping with and including 10mm diameter high tensile reinforcement as bar and 10mm diameter mild steel as fishtailed including setting ends into brickwall and all necessary formwork	m	16		
K	20mm Thick cement and sand (1:6) paving with a smooth trowelled finished as described to sump floor	m2	5		
L	20mm Thick cement and sand (1:6) as described plainface to top and side of sump wall	m2	30		
M	Supply and install galvanised iron step including all necessary fitting, fixing and accessories all as per Engineer's drawing details	No.	20		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SURFACE WATER DRAINAGE (Cont'd)</u>				
	<u>The following in 3 Nos. Brick Sump (cont'd)</u>				
A	750mm x 750mm heavy duty galvanised iron grating all as per Engineer's drawing no.ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	No.	2		
B	1000mm x 1000mm heavy duty galvanised iron grating all as per Engineer's drawing no.ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02	No.	1		
	<u>Hot-Dipped Galvanised Iron Trash Screen</u>				
C	Hot-dipped galvanised iron trash screen overall size 750mm x 670mm high constructed of 50mm x 12mm thick galvanised iron angle frame all round with and including 50mm x 12mm thick galvanised iron flat at 50mm centres vertical welded fixed to sump with 10mm diameter anchor bolt anchor or equivalent including painting with two layer on anti oxide and one coat back bituminous paint all as Engineer's drawing	No.	3		
	(End of 3 Nos. Brick Sump)				
	<u>The Following 600mm Diameter Pipe culvert</u>				
D	Excavate trench commencing from formation level for pipe culvert maximum depth not exceeding 3.00m deep and get out, part return, fill in and ram, deposit and spread in making up levels where directed within the site and remainder load and cart away from site	m3	25		
E	50mm Thick lean concrete Grade 15 as described blinding screed, spread and levelled under pipe culvert	m3	0.4		
	<u>Vibrated reinforced concrete Grade 20 as described in :-</u>				
F	150mm Thick in concrete base	m3	1		
G	Vibrated reinforced concrete Grade 20 as described in concrete haunching	m3	10		
H	A layer of steel fabric reinforcement to MS 1450 as described BRC A10, well lapped at joints including notching around all obstructions and bending as required in concrete base (measured nett- no allowance made for laps)	m2	9		
	<u>Use and waste of sawn formwork as described to :-</u>				
J	150mm high use and waste of sawn formwork as described to edges of concrete base	m	16		
K	500mm high ditto to edges of concrete haunching	m	16		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SURFACE WATER DRAINAGE (Cont'd)</u> <u>The Following 600mm Diameter Pipe culvert (Cont'd)</u> A Precast concrete pipe culvert size 600mm diameter with including all necessary moulds, finishing fair on exposed surfaces and jointed in trench all as per Engineer's drawing <u>(End of Pipe Culvert 600mm diameter)</u> <u>V- shaped Drain</u> B Construct and complete 750mm wide x 300mm depth V-shaped drain complete with 75mm thick concrete lining Grade 25, 25mm thick sand screed, one layer of BRC A6, closed turving within 1.00m and all necessary excavation, concrete, reinforcement, formwork and etc. all as per Engineer's drawing no. ARZEC/EW2020/MPKJ/DBBANGI/SEK.2/03 C Extra Over for cascade drain including all necessary excavation, concrete lining and drain wall in completion to form cascading drain as described <u>Interceptor sump</u> D Construct and complete 1100mm x 1100mm x 900mm depth (average) interceptor sump, constructed of 250mm thick concrete base Grade 25 as described with a layer of BRC A7, 50mm thick lean concrete Grade 15 as described, 225mm thick brickwall in common bricks with 25mm thick (1:6) rendering plaster high alumina cement and sand internally, including all necessary excavation, concrete, reinforcement, formwork, accessories and etc. all as per Engineer's drawing no. ARZEC/EW2020/MPKJ/DBBANGI/SEK.2/03	m	8		
		m	203		
		m	42		
		No.	7		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SURFACE WATER DRAINAGE (Cont'd)</u>				
	<u>Cleaning Existing Drain</u>				
A	Supply labour, tools and equipment to cleaning existitng drain all to S.O's instruction and approval	Item	-	-	
	<u>Testing</u>				
B	Allow for connection to building perimeter drainage and sump and make good all work disturbed	Item	-	-	
C	Allow for connection to existing main drain and make good all work disturbed	Item	-	-	
	Carried to Collection :				
	<u>COLLECTION : -</u>				
	BQ2/F/1				
	BQ2/F/2				
	BQ2/F/3				
	BQ2/F/4				
	BQ2/F/5				
	BQ2/F/6				
	SURFACE WATER DRAINAGE CARRIED TO SUMMARY:				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SEWERAGE</u> Excavate trench and get out, part return selected excavated material as backfill including compaction, part deposit and spread in making up levels where directed within the site and remainder load and cart away from site :-				
A	150mm Diameter pipe and 450mm wide (minimum) bed under and maximum depth not exceeding 2.00m deep and average 1.45m deep	m	18		
B	Ditto average 1.60m deep	m	21		
C	<u>Extra Over</u> for trench excavation under metalled road	m	9		
D	450mm Wide x 150mm Thick (minimum) well compacted crusher run complete with 75mm thick similar haunching to side of 150mm diameter pipe and thereafter upward backfill with 300mm thick (minimum) selected compacted material complete with 75mm thick similar haunching to side of 150mm diameter pipe and 180mm thick compacted backfill	m	30		
E	450mm Wide x 150mm Thick (minimum) well compacted granular bedding complete with 75mm thick similar haunching to side of 150mm diameter pipe and thereafter upward backfill with 100mm thick (minimum) concrete grade 20 complete with 75mm thick similar haunching to side of 150mm diameter pipe and 200mm thick compacted backfill	m	9		
	Vitrified clay pipes and fittings to B.S. 65 jointed with spigot and socketted joints including flexible rubber rings as described :-				
F	150mm Diameter laid and jointed in trench (measured separately)	m	39		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>SEWERAGE</u> (Cont'd)</p> <p><u>The following in 4 nos manhole</u></p> <p>Precast manhole 1200mm (minimum) internal diameter installation shall include all materials, plants and labour, excavation of all material encountered except for rock, removal and disposal of all excess material encountered, provision of additional material as ordered, backfill, compaction, medium duty ductile iron frames and cover with hinges and lockable including with KUMBAHAN's logo, construction of inverts, reinstatement of surfaces, shoring, planking and strutting, dewatering, brickwalling, concrete base, suspended slab, concrete surround / encasement, formwork, steel reinforcement, high alumina cement and sand (1:2) rendering to wall and exposed surfaces, stainless steel ladder and benching and necessary for a complete installation and to give a finished result in accordance with the Engineer's drawing and specification (Depth shall be measured from top of manhole to invert at centre of manhole) as described :-</p>				
A	Manhole maximum depth not exceeding 2.00m deep and average 1.30m - 1.45m deep	No.	1		
B	Ditto average 1.45m - 1.60m deep	No.	3		
	<u>Sundries</u>				
C	Allow for connection to internal building manhole including make good all work disturbed	Item	-	-	
D	Allow for connection to existing manhole including make good all work disturbed	Item	-	-	
E	Allow connection for existing deep manhole including all necessary excavation, filling excavation, shoring, concrete, pipe, bend pipe and make good all work disturbed	Item	-	-	
F	Allow for testing the whole soil drainage in the presence of the S.O's pay all charges and fees for any test required by the relevant authorities, make good any defect, test again on completion and leave the whole in perfect working order to the entire satisfaction of the S.O's	Item	-	-	
G	Allow for CCTV inspection to be conducted for 10% of the sewer length (minimum) which will be determine by the inspector and will normally be undertaken in a single visit unless additional visits are required	Item	-	-	
H	Allow for rectification works including make good all work disturbed	Item	-	-	
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>SEWERAGE</u> (Cont'd) <u>COLLECTION : -</u> BQ2/G/1 BQ2/G/2				
	SEWERAGE CARRIED TO SUMMARY:				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>WATER RETICULATION</u></p> <p>Excavate trench and get out, part return with compacted selected backfill minimum 300mm above pipe including compaction, fill in and ram, remove surplus, part deposit and spread in making up levels where directed within the site and remainder load and cart away from site :-</p>				
A	Trench 600mm wide (minimum) for 150mm diameter pipe not exceeding 1.50m deep	m	116		
B	<u>Extra Over</u> for trench excavation under metalled road	m	106		
C	600mm Wide x 150mm thick (minimum) approved granular material filling as base with 150mm thick similar haunching to side of 150mm diameter pipe as per Engineer's detail drawing	m	116		
	Supply and lay ductile iron pipe shall be internally cement lined and externally wrapped with bituminous felt as described complete with fittings, including joints as per standard requirement and accessories including providing grade 20 concrete anchor and trust blocks, extra excavation, backfilling with selected and suitable granular filling materials				
D	150mm Diameter pipe laid and jointed in trench	m	116		
E	<u>Extra Over</u> for 90 degree gusseted bend	No.	3		
F	<u>Extra For</u> 150mm diameter pipe crossing over drain	No.	1		
	Supply and install the following fittings complete with and including joints as per standard requirement, fixing accessories and short length of pipes, painting with two coats of approved bituminous paint on exposed surfaces including providing grade 20 concrete anchor blocks, thrust blocks and support, concrete bed, extra excavation, backfilling with selected and suitable materials and remove surplus from site all as described				
	<u>Bulk Meter</u>				
G	Supply and install standard and approved 60mm diameter water meter with standard sluice valve, double flanged strainer, 90 degrees bend, 90 degrees duck foot bends, taper pipe and including adaptor, couplings, anchor blocks, grade 25 concrete apron, BRC A10, 300mm x 300mm mass concrete thrust block and all per drawing No. ARZEC/WS2020/MPKJ/DBBANGI/SEK.2/01 & 02	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>WATER RETICULATION (Cont'd)</u></p> <p>Supply and install the following fittings complete with and including joints as per standard requirement, fixing accessories and short length of pipes, painting with two coats of approved bituminous paint on exposed surfaces including providing grade 20 concrete anchor blocks, thrust blocks and support, concrete bed, extra excavation, backfilling with selected and suitable materials and remove surplus from site all as described (Cont'd)</p>				
	<u>Sluice Valve</u>				
A	100mm Diameter single flanged sluice valve as described and jointing to main pipe or cast iron fittings with and including all necessary spigot, adaptor pipes, extension pieces, jointing fittings and detachable joint, all as per Engineer's details drawing No. ARZEC/WS2020/MPKJ/DBBANGI/SEK.2/01 & 02	No.	1		
	<u>Scour Valve</u>				
B	100mm Diameter scour valve as described and jointing to main pipe or cast iron fittings with and including all necessary spigot, adaptor pipes, extension pieces, jointing fittings and detachable joint, all as per Engineer's details drawing	No.	1		
	<u>Pillar Hydrant</u>				
C	64mm Diameter standard twin pillar hydrant flanged end type, complete with 100mm diameter flanged ends sluice valve, hydrant key duct foot, auto drain valve standard, including precast concrete chamber, cover, including all necessary painting works, excavation, formwork, backfilling and removal of surplus excavated materials from site	No.	1		
	<u>S-Bend pipe</u>				
D	Approved s-bend pipe with air valve (measured separately) and jointing to 150mm diameter ductile iron' pipe including split collar, lange VJ,air valve and all necessary excavation,formworks,fiiting and accessories etc in completion and removal of surplus excavated materials, from site all as per Engineer's detail drawing	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>WATER RETICULATION (Cont'd)</u>				
A	Allow for cutting of trees including all necessary works and remove away from site	Item	-	-	
B	Allow for connection of 150mm diameter Ductile Iron pipe to existing water main including all necessary couplings, jointing components and accessories and pay all charges in connection with temporary work etc. for proper completion of main water supply	Item	-	-	
C	On completion of the installation, test all pipings, fittings etc. for water tightness, make good any defect and leave everything in perfect working order to the entire satisfaction of the S.O and liase with SYABAS for submission and commissioning	Item	-	-	
D	Allow for flushing and disinfection of the tested pipe lines and fittings with chlorine bearing water all to the entire satisfactions of the S.O and SYABAS	Item	-	-	
E	Allow for inspection testing and all necessary approval by Jabatan Perkhidmatan Bomba Malaysia and other authorities	Item	-	-	
	Carried to Collection :				
	<u>COLLECTION :</u>				
	BQ2/H/1				
	BQ2/H/2				
	BQ2/H/3				
	WATER RETICULATION CARRIED TO SUMMARY :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>RETAINING WALL</u>				
	Excavate, get out, part return, fill in and ram, deposit and spread in making up levels including trimming and grading where directed within the site and remainder load and cart away from site :-				
A	Trench for bulk excavation of retaining wall maximum depth not exceeding 4.00m deep	m3	924		
B	Filling excavation with excavated material	m3	712		
C	Filling to excavation with selected granular material well compacted at 300mm layers from Contractor own source	m3	86		
	<u>Lean concrete Grade 10 as described :-</u>				
D	50mm Thick blinding screed, spread and levelled under base	m3	12		
	<u>Vibrated reinforced concrete Grade 30 as described in :-</u>				
E	Concrete base	m3	72		
F	Concrete toe	m3	12		
G	Concrete wall	m3	113		
	<u>High tensile rod reinforcement as described :-</u>				
H	12mm Diameter in base	kg	4,060		
J	16mm Diameter ditto	kg	2,343		
K	12mm Diameter in toe	kg	1,238		
L	12mm Diameter in wall	kg	5,701		
M	16mm Diameter ditto	kg	4,156		
	<u>Use and waste of sawn formwork as described to :-</u>				
N	Side of concrete base exceeding 250mm but not exceeding 500mm high	m	191		
P	Side of concrete toe exceeding 250mm but not exceeding 500mm high	m	191		
Q	Side of concrete wall including strutting up to height exceeding 2.00m but not exceeding 4.00m high	m2	574		
	Carried to Collection :				

DEWAN BANQUET BANGI

BQ2/J/2

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT</u>				
	<u>WORK BELOW LOWEST FLOOR FINISH</u>				
	Excavate, get out, part return, fill in and ram, deposit and spread in making up levels including trimming and grading where directed within the site and remainder load and cart away from site :-				
A	Oversite commencing from platform level to reduce level not exceeding 250mm deep	m3	2		
B	Pit for pad footing commencing from platform level maximum depth exceeding 0.25m deep but not exceeding 1.00m deep (Provisional)	m3	2		
C	Trench for ground beam commencing from ground slab excavation level maximum depth exceeding 0.25m deep but not exceeding 1.00m deep	m3	1		
D	50mm thick sand blinding, spread and levelled under ground slab	m3	0.4		
E	Ditto under apron	m3	0.4		
	<u>Lean concrete Grade 15 as described :-</u>				
F	50mm Thick blinding screed, spread and levelled under pad footing	m3	0.1		
G	Ditto for under ground beam	m3	0.1		
	<u>Vibrated reinforced concrete Grade 35 as described in :-</u>				
H	Pad footing	m3	0.3		
J	Column stump (Provisional)	m3	0.2		
K	Ground beam	m3	1		
L	100mm Thick ground slab	m3	1		
M	100mm Thick apron slab	m3	1		
N	200mm Thick (consolidate thickness) bed of approved hardcore, spread, levelled, well rolled and consolidated including blinding top surfaces with sand as described under ground slab	m2	8		
P	Ditto under apron slab	m2	7		
	<u>Mild steel rod reinforcement as described :-</u>				
Q	6mm Diameter in pad footing as tie	kg	8		
R	6mm Diameter in column stump as links (Provisional)	kg	6		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>WORK BELOW LOWEST FLOOR FINISH (Cont'd)</u>				
	<u>Mild steel rod reinforcement as described (cont'd) :-</u>				
A	6mm Diameter in ground beam as stirrups	kg	40		
B	10mm Diameter in ground slab as starter bar	kg	34		
	<u>High tensile rod reinforcement as described :-</u>				
C	12mm Diameter in pad footing	kg	42		
D	12mm Diameter in column stump (Provisional)	kg	26		
E	12mm Diameter in ground beam	kg	75		
	Steel mesh fabric reinforcement to MS 145 well lapped at joint including notching around all obstructions and bending as required (measured nett - no allowance made for laps) as described:-				
F	A layer of BRC A7 in ground slab	m2	8		
G	A layer of BRC A7 in apron slab	m2	7		
	<u>Use and waste of sawn formwork as described to :-</u>				
H	Side of pad footing exceeding 250mm but not exceeding 500mm high	m	11		
J	Ditto column stump exceeding 500mm high but not exceeding 1.00m high (Provisional)	m	4		
K	Ditto to ground beam exceeding 250mm high but not exceeding 500mm high	m	32		
L	Edges of slab not exceeding 250mm deep	m	14		
M	0.25mm Thick approved heavy duty polythene sheet damp-proof membrane, laid under ground floor slab, well lapped at joints including all necessary protection to prevent puncture (measured nett-no allowance made for laps)	m2	8		
	Ground treatment against subterranean termites using termiticides chemical soil treatment approved by Ministry of Health including providing five (05) years written guarantee :-				
N	Spray 'CYREN TC/HALEX 39EC' or other equal and approved termiticide with 5% at 5 litres per square metre for impregnation of soil surface below pad footing, ground beam and ground slab after laying of sand blinding and prior to concreting	Item	-	-	
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>FRAME</u>				
	<u>Vibrated reinforced concrete Grade 30 as described in:-</u>				
A	Column	m3	0.4		
B	Roof beam	m3	1		
	<u>Mild steel rod reinforcement as described :-</u>				
C	6mm Diameter in column as links	kg	20		
D	6mm Diameter in roof beam as stirrups	kg	20		
	<u>High tensile rod reinforcement as described :-</u>				
E	12mm Diameter in column	kg	70		
F	12mm Diameter in roof beam	kg	74		
	<u>Use and waste of sawn formwork as described to :-</u>				
G	Sides of column	m2	11		
H	Sides and soffit of suspended beam, horizontal, including strutting up to a height not exceeding 3.50m high	m2	14		
	<u>ROOF</u>				
	<u>i) Roof Structure</u>				
	<u>Pitch Roof Construction</u>				
	<u>Notes:-</u>				
	Prices for the roof trusses shall include for all steel members, connection plates, bolts, etc. including all necessary painting, steel plate, etc. with and including design fees, fabrication, installation and manufacturer's guarantee and all as per Architect's drawings.				
	The tenderer is requested to submit shop drawings, specification and calculation sheet together with tender document for approval. Only designs from specialist Proprietary Roof Trusses Manufacturer's together with their Professional Engineer endorsement				
J	Design, supply and install complete lightweight steel roof trusses as described all to the manufacturer's instruction and to the approval of the S.O. The Contractor is to study and fully understand the drawing for steel trusses.	L.S.	-	-	
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>ROOF(Cont'd)</u>				
	<u>ii) Roof Finishes</u>				
	Supply and fix 0.48mm thick TCT clip lock zincalume sheet metal roofing or other equivalent metal decking roof covering in approved colour on 50mm thick board and including requisite adhesive, purlin, fixing clip locks, beading or necessary accessories to close gap between metal decking and wall all as per manufacturer's instruction and as per Architect's drawing (measured nett-no allowance made for laps) Prices shall include manufacturer's guarantee				
A	Roof covering	m2	25		
B	<u>Extra For</u> ridge capping	m	12		
C	Approved one layer of 50mm thick fibreglass wool insulation sheet laid on roof framing underneath batten well lapped at joints including chicken wire mesh to manufacturer's detail	m2	25		
D	Approved one layer of double sided reinforced aluminium foil insulation sheet laid on roof framing underneath batten well lapped at joints including galvanised iron wire mesh to manufacturer's detail	m2	25		
	<u>iii) Rainwater Disposal</u>				
	Approved Unplasticised Polyvinyl Chloride (UPVC) pipe 'Class C' and fittings jointed with the manufacturer's approved solvent cement with approved fixing all in accordance with the manufacturer's instruction :-				
E	100mm Diameter rainwater downpipe fixed to wall/column	m	8		
F	100mm Diameter ditto laid under slab	m	2		
G	<u>Extra For</u> swan neck	No.	2		
H	<u>Extra For</u> bend	No.	2		
J	<u>Extra For</u> shoe	No.	2		
K	100mm Diameter approved dome roof outlet as described grating	No.	2		
L	Approved galvanised iron gutter overall size 200mm x 300mm high x 1.3mm thick,laid to fall fixed to roof cladding with marine plywood backing including fitting,fixing and accessories all as per manufacturer's specification and Architect's/S.O.'s approval	m	15		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>Timber Struts</u>				
A	50mm x 125mm threaded Hardwood strut support one end fixed to roof structure and other end fixed to concrete/brickwall (both measured separately) including all necessary painting, bolt,nuts and etc. all to the S.O. satisfaction	No.	2		
	<u>EXTERNAL WALL</u>				
	<u>Brickwork in clay brick in cement and sand (1:3) mortar as described :-</u>				
B	Half brick (110mm thick) wall, reinforced with and including a layer of 63mm wide 'Exmet' at every fourth course	m2	28		
	<u>Damp proof course as described :-</u>				
C	110mm Wide horizontal damp-proof course as described laid and bedded on cement and sand (1:3) mortar	m	12		
	<u>Sundries</u>				
D	6mm Diameter x 450mm long mild steel bars as bonding tie with one end hooked and cast into concrete and the other end built into joint of brickwork including perforation through formwork	No.	48		
	<u>Concrete Coping</u>				
E	100mm x 100mm Thick reinforced concrete coping including forming 12mm diameter throating and all necessary reinforcement, formwork and painting all as per Architect's detail drawing no. MPKJ9/PPJ/2018/035	m	16		
	<u>INTERNAL WALL & PARTITIONS</u>				
	<u>Brickwork in clay brick in cement and sand (1:3) mortar as described :-</u>				
F	Half brick (110mm thick) wall, reinforced with and including a layer of 63mm wide 'Exmet' at every fourth course	m2	11		
	<u>Damp proof course as described :-</u>				
G	110mm Wide horizontal damp-proof course as described laid and bedded on cement and sand (1:3) mortar	m	4		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>INTERNAL WALL & PARTITIONS (Cont'd)</u>				
A	6mm Diameter x 450mm long mild steel bars as bonding tie with one end hooked and cast into concrete and the other end built into joint of brickwork including perforation through formwork	No.	48		
	<u>DOOR</u>				
	Precast concrete Grade 25 with and including all formwork, hoisting and setting in position, bedding, jointing and pointing in cement mortar (1:3) :-				
B	110mm x 150mm as specified lintol, reinforced with and including 4 nos. 12mm diameter high tensile bars with hooked ends and 6mm diameter mild steel stirrups at 150mm centres and formworks, as per Engineer's detail drawing	m	3		
	Supply and install and approved metal door frame manufactured from 1.0mm thickness hot-dipped galvanised steel coil, zinc coated to J.I.S.G 3320 standard epoxy primed one side with 300 grams of zinc per m2 complete with lock striker brick ties, adaptors plate or combination of both and all as per manufacturer's instruction and Architect's Drawing no. MPKj 52/PPj/2019/016 & MPKj 52/PPj/2019/016				
C	900mm x 2100mm high (Type D5)	No.	1		
D	750mm x 2100mm high (Type D8)	No.	1		
	Doors in wrot pressure treated Grade 'B' timber as described all as per Architect's Drawing approval				
E	38mm Thick approved solid timber door overall size 900mm x 2100mm high including all necessary stiles, top, bottom and intermediate rail all as per manufacturer's details and hanging on butt hinges (measured separately) (Type D5)	No.	1		
F	38mm Thick approved solid timber door overall size 750mm x 2100mm high including all necessary stiles, top, bottom and intermediate rail all complete with waterproofing at one side all as per manufacturer's details and hanging on butt hinges (measured separately) (Type D8)	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>DOOR (Cont'd)</u>				
	Prepare and apply one coat of metallic primer, one undercoat and two finishing coats of gloss enamel paint on the following surfaces :-				
A	General surfaces of metal frame exceeding 200mm but not exceeding 300mm girth	m	10		
	Knot, prime, stop and apply three coats of and approved wood stain on the following surfaces :-				
B	General surfaces of solid timber door (both sides measured flat overall)	m2	7		
	<u>Ironmongeries</u>				
	Supply and install the following or approved equivalent ironmongery including all necessary matching screws all as per manufacturer's instruction and Architect's Approval				
C	Approved 102mm x 76mm x 2.0mm plain bearing hinge in stainless steel finish	No.	6		
D	Approved cylindrical lockset	No.	2		
E	Approved wall mounted door stopper	No.	2		
F	Supply and install 1650mm wide x 2100mm high manually operated aluminium roller shutter as described complete with top vents including all necessary guide channel, bottom bar, pelmet box, fixing accessories and ironmongeries including fixing into position all as per manufacturer's specification and S.O.'s approval	No.	1		
	Approved mild steel grille constructed of 25mm x 25mm steel hollow section angle frame all round and infilled with and including 12mm x 12mm mild steel square hollow section grille, welded together including all necessary accessories, ironmongeries and painting all as per Architect's approval				
G	Door opening 900mm wide x 2100mm high	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>WINDOW AND FIXED PANEL</u>				
	Precast concrete Grade 25 with and including all formwork, hoisting and setting in position, bedding, jointing and pointing in cement mortar (1:3) :-				
A	110mm x 150mm as specified lintol, reinforced with and including 4 nos. 12mm diameter high tensile bars with hooked ends and 6mm diameter mild steel stirrups at 150mm centres and formworks, as per Engineer's detail drawing	m	4		
	Supply, deliver and fix the following powder coated aluminium frame panelling window with and including framing, transome, mullion, glazing beads, PVC gasket, fixing screws and all necessary ironmongery and painting (glass measured separately) all as per Architect's Drawing No. MPKj 52/PPj/2019/019 & MPKj 52/PPj/2019/020				
B	Top hung casement window overall size 600mm x 600mm high (Type W1A)	No.	2		
C	Composite window overall size 1200mm x 1200mm high comprising of 1 no. sliding glass window size 600mm x 1200mm high and 1 no. fixed glass window size 600mm x 2100mm high including sliding track (Type W6)	No.	2		
D	6mm Thick clear glass panel as described including cutting glass to the required size, waste and cleaning inside and outside on completion and glazing to aluminium frame windows	m2	1		
E	6mm Thick tempered glass panel as described including cutting glass to the required size, waste and cleaning inside and outside on completion and glazing to aluminium frame windows	m2	3		
	<u>FLOOR FINISHES</u>				
	<u>Externally</u>				
	Cement and sand (1:3) paving with a smooth trowelled finished as described :-				
F	25mm Thick to apron	m2	8		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>FLOOR FINISHES (cont'd)</u>				
	<u>Externally (cont'd)</u>				
	<u>Concrete Ramp</u>				
A	Construct and complete reinforced concrete ramp overall size 1800mm x 600mm x 100mm high including all necessary excavation, concrete, formwork, reinforcement, finishes and groove line all as per Engineer's details	No.	1		
	<u>Internally</u>				
	<u>Cement and sand (1:3) screed as described :-</u>				
B	19mm Thick to floor to receive ceramic tiles	m2	3		
C	19mm Thick to drop, 50mm high	m	2		
D	19mm Thick to skirting, 100mm high	m	5		
E	19mm Thick to floor to receive non ceramic tiles	m2	5		
	600mm x 300mm approved ceamic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
F	Floor	m2	3		
G	Drop, 50mm high	m	2		
H	Skirting, 100mm high	m	5		
	600mm x 300mm approved non ceamic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
J	Floor, laid to falls	m2	3		
	300mm x300mm approved ceamic tiles of approved quality, colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) and pointed with a neat white or tinted cement as described to (including cutting all waste to form pattern):-				
K	Floor, laid to falls	m2	2		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>WALL FINISHES</u>				
	<u>Externally</u>				
	Cement and sand (1:6) plaster mixed with an approved plasticiser finish with a wood as described :-				
A	20mm Thick to wall and column	m2	28		
	Prepare and apply sealer, one undercoat and two finishing coats or approved equivalent weathershield paint as described to :-				
B	Plastered wall and column	m2	28		
	<u>Internally</u>				
	Cement and sand (1:6) plaster mixed with an approved plasticiser finish with a steel trowelled as described :-				
C	20mm Thick to wall and column	m2	14		
	<u>Cement and sand (1:3) backing screed as described:</u>				
D	19mm Thick to wall to ceramic tiles	m2	32		
	200mm x 250mm thick ceramic tiles or other equal and approved quality, standard colour and pattern, bedded and jointed on cement and sand (1:3) screed (measured separately) as described to:-				
E	Wall	m2	32		
	Prepare and apply sealer, one undercoat and two finishing coats or approved equivalent emulsion paint as described to :-				
F	Plastered wall and column	m2	14		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>CEILING FINISHES</u>				
	<u>Externally</u>				
	Supply and install approved gypsum board ceiling in size 600mm x 600mm x 12mm thick panel set out symmetrically from the centre of the area with exposed aluminium suspension system (measured separately) all as per S.O's approval				
A	To slope area including fixing at a height not exceeding 3.50m high	m2	8		
B	Natural anodised extruded aluminium 'T' as exposed suspension system suspended by 14 S.W.G. galvanised wire hangers with adjustable height and hooked to bars and the other and fixed to concrete soffit by eye lit pins or hook at a height not exceeding 3.50m high	m2	8		
C	Prepare and apply sealer, one undercoat and two finishing coats of emulsion paint as described to general surface of gypsum board ceiling not exceeding 3.50m high	m2	8		
	<u>Internally</u>				
	Supply and install approved gypsum board ceiling in size 600mm x 600mm x 12mm thick panel set out symmetrically from the centre of the area with exposed aluminium suspension system (measured separately) all as per S.O's approval				
D	To flat area including fixing at a height not exceeding 3.50m high	m2	8		
E	Natural anodised extruded aluminium 'T' as exposed suspension system suspended by 14 S.W.G. galvanised wire hangers with adjustable height and hooked to bars and the other and fixed to concrete soffit by eye lit pins or hook at a height not exceeding 3.50m high	m2	8		
F	Prepare and apply sealer, one undercoat and two finishing coats of emulsion paint as described to general surface of gypsum board ceiling not exceeding 3.50m high	m2	8		
	<u>SANITARY FITTINGS</u>				
	Supply and fix the following approved coloured vitreous china sanitary fittings in standard colour and accessories including storing, assembling, bedding, plugging and screwing with matching screws, cutting and pinning or building in brackets, jointing and connecting to services and soil pipe and making good all work disturbed :-				
G	Approved pedestal water closet with S trap complete with exposed stainless steel flush valve, pan connector and heavy duty seat and cover in match colour	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>SANITARY FITTINGS (cont'd)</u>				
	Supply and fix the following approved coloured vitreous china sanitary fittings in standard colour and accessories including storing, assembling, bedding, plugging and screwing with matching screws, cutting and pinning or building in brackets, jointing and connecting to services and soil pipe and making good all work disturbed :- (cont'd)				
A	Approved 1/2" chrome plated regency pillar tap with chrome plated ABS handle	No.	1		
B	Approved semi recessed soap dish	No.	1		
C	Approved ceramic wall shelf	No.	1		
D	Approved hand bidet complete with flexible hose, wall bracket & brass nozzle with chrome plated ABS handle	No.	1		
E	Approved brass wall flanged stop cock	No.	2		
F	Approved stainless steel floor trap size 150mm x 150mm	No.	2		
	Supply and fix 8mm Thick glass mirror with bevelled edge and hidden fixing as described :-				
G	Overall size 800mm x 1000mm high	No.	1		
	<u>BUILDER'S WORK IN CONNECTION WITH SERVICES</u>				
	<u>Counter Top</u>				
	Construct and complete RC counter top constructed of 100mm thick reinforced concrete slab, finished with ceramic tiles including all necessary reinforcement, formwork, plaster, painting, etc. all as per Architect's Drawing No. MPKj52/PPJ/2019/065 & MPKj52/PPJ/2019/066				
H	1800mm length x 450mm wide	No.	1		
J	800mm length x 450mm wide	No.	1		
	<u>SUNDRIES</u>				
K	Supply and deliver 1370mm x 780mm x 1250mm high polythene leach mobile garbage bin (660L) completed with heavy duty roller all as per S.O's approval	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>GUARD HOUSE, TOILET AND REFUSE COMPARTMENT (Cont'd)</u>				
	<u>COLLECTION :</u>				
	BQ2/K/1				
	BQ2/K/2				
	BQ2/K/3				
	BQ2/K/4				
	BQ2/K/5				
	BQ2/K/6				
	BQ2/K/7				
	BQ2/K/8				
	BQ2/K/9				
	BQ2/K/10				
	BQ2/K/11				
	BQ2/K/12				
	GUARD HOUSE, TOILET AND REFUSE COMPARTMENT CARRIED TO SUMMARY:				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>PUMP HOUSE</u>				
	<u>WORK BELOW LOWEST FLOOR FINISH</u>				
	Excavate, get out, part return, fill in and ram, deposit and spread in making up levels including trimming and grading where directed within the site and remainder load and cart away from site :-				
A	Oversite commencing from platform level to reduce level not exceeding 250mm deep	m3	4		
B	Pit for pad footing commencing from platform level maximum depth exceeding 0.25m deep but not exceeding 1.00m deep (Provisional)	m3	1		
C	Trench for ground beam commencing from ground slab excavation level maximum depth exceeding 0.25m deep but not exceeding 1.00m deep	m3	1		
D	50mm thick sand blinding, spread and levelled under ground slab	m3	1		
E	Ditto under apron	m3	0.3		
	<u>Lean concrete Grade 15 as described :-</u>				
F	50mm Thick blinding screed, spread and levelled under pad footing	m3	0.1		
G	Ditto for under ground beam	m3	0.1		
	<u>Vibrated reinforced concrete Grade 35 as described in :-</u>				
H	Pad footing	m3	0.2		
J	Column stump (Provisional)	m3	0.2		
K	Ground beam	m3	1		
L	Ground slab	m3	1		
M	Apron slab	m3	0.3		
N	200mm Thick (consolidate thickness) bed of approved hardcore, spread, levelled, well rolled and consolidated including blinding top surfaces with sand as described under ground slab	m2	18		
P	Ditto under apron slab	m2	6		
	<u>Mild steel rod reinforcement as described :-</u>				
Q	6mm Diameter in pad footing as tie	kg	3		
R	6mm Diameter in column stump as links (Provisional)	kg	7		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>PUMP HOUSE (cont'd)</u>				
	<u>WORK BELOW LOWEST FLOOR FINISH (Cont'd)</u>				
	<u>Mild steel rod reinforcement as described :-</u>				
A	6mm Diameter in ground beam as stirrups	kg	22		
B	10mm Diameter in ground slab as starter bar	kg	19		
	<u>High tensile rod reinforcement as described :-</u>				
C	12mm Diameter in pad footing	kg	18		
D	12mm Diameter in column stump (Provisional)	kg	30		
E	12mm Diameter in ground beam	kg	73		
	<u>Use and waste of sawn formwork as described to :-</u>				
F	Side of pad footing exceeding 250mm but not exceeding 500mm high	m	7		
G	Ditto column stump exceeding 500mm high but not exceeding 1.00m high (Provisional)	m	3		
H	Ditto to ground beam exceeding 250mm high but not exceeding 500mm high	m	34		
J	Edges of slab not exceeding 250mm deep	m	16		
K	0.25mm Thick approved heavy duty polythene sheet damp-proof membrane, laid under ground floor slab, well lapped at joints including all necessary protection to prevent puncture (measured nett-no allowance made for laps)	m2	18		
	Ground treatment against subterranean termites using termiticides chemical soil treatment approved by Ministry of Health including providing five (05) years written guarantee :-				
L	Spray 'CYREN TC/HALEX 39EC' or other equal and approved termiticide with 5% at 5 litres per square metre for impregnation of soil surface below pad footing, ground beam and ground slab after laying of sand blinding and prior to concreting	Item	-	-	
	Steel mesh fabric reinforcement to MS 145 well lapped at joint including notching around all obstructions and bending as required (measured nett - no allowance made for laps) as described:-				
M	A layer of BRC A7 in ground slab	m2	18		
N	A layer of BRC A7 in apron slab	m2	6		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>PUMP HOUSE (cont'd)</u>				
	<u>FRAME</u>				
	<u>Vibrated reinforced concrete Grade 30 as described in:-</u>				
A	Column	m3	0.5		
B	Roof beam	m3	1		
	<u>Mild steel rod reinforcement as described :-</u>				
C	6mm Diameter in column as links	kg	16		
D	6mm Diameter in roof beam as stirrups	kg	22		
	<u>High tensile rod reinforcement as described :-</u>				
E	12mm Diameter in column	kg	50		
F	12mm Diameter in roof beam	kg	74		
	<u>Use and waste of sawn formwork as described to :-</u>				
G	Sides of column	m2	9		
H	Sides and soffit of suspended beam, horizontal, including strutting up to a height not exceeding 3.50m high	m2	18		
	<u>ROOF</u>				
	<u>i) Roof Structure</u>				
	<u>Pitch Roof Construction</u>				
	<u>Notes:-</u>				
	Prices for the roof trusses shall include for all steel members, connection plates, bolts, etc. including all necessary painting, steel plate, etc. with and including design fees, fabrication, installation and manufacturer's guarantee and all as per Architect's drawings.				
	The tenderer is requested to submit shop drawings, specification and calculation sheet together with tender document for approval. Only designs from specialist Proprietary Roof Trusses Manufacturer's together with their Professional Engineer endorsement				
J	Design, supply and install complete lightweight steel roof trusses as described all to the manufacturer's instruction and to the approval of the S.O. The Contractor is to study and fully understand the drawing for steel trusses.	L.S.	-	-	
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>PUMP HOUSE (cont'd)</u> <u>ROOF(Cont'd)</u> <u>ii) Roof Finishes</u> Supply and fix 0.30mm thick BMT CRIMP TRIMDEK CLEAN COLORBOND STEEL ZINCALUME or other equivalent metal decking roof covering in approved colour on 50mm thick board and including requisite adhesive, purlin, connectors and screws, beading or necessary accessories to close gap between metal decking and wall all as per manufacturer's instruction and as per Architect's drawing (measured nett-no allowance made for laps) Prices shall include manufacturer's guarantee				
A	Roof covering	m2	35		
B	<u>Extra For</u> ridge capping	m	6		
C	Approved one layer of 50mm thick fibreglass wool insulation sheet laid on roof framing underneath batten well lapped at joints including chicken wire mesh to manufacturer's detail	m2	35		
D	Approved one layer of double sided reinforced aluminium foil insulation sheet laid on roof framing underneath batten well lapped at joints including galvanised iron wire mesh to manufacturer's detail	m2	35		
	<u>EXTERNAL WALL</u> <u>Brickwork in clay brick in cement and sand (1:3) mortar as described :-</u>				
E	Half brick (110mm thick) wall, reinforced with and including a layer of 63mm wide 'Exmet' at every fourth course	m2	24		
	<u>Damp proof course as described :-</u>				
F	110mm Wide horizontal damp-proof course as described laid and bedded on cement and sand (1:3) mortar	m	17		
	<u>Sundries</u>				
G	6mm Diameter x 450mm long mild steel bars as bonding tie with one end hooked and cast into concrete and the other end built into joint of brickwork including perforation through formwork	No.	24		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>PUMP HOUSE (cont'd)</u></p> <p><u>DOOR</u></p> <p>Precast concrete Grade 25 with and including all formwork, hoisting and setting in position, bedding, jointing and pointing in cement mortar (1:3) :-</p> <hr/> <p>A 110mm x 150mm as specified lintol, reinforced with and including 4 nos. 12mm diameter high tensile bars with hooked ends and 6mm diameter mild steel stirrups at 150mm centres and formworks, as per Engineer's detail drawing</p> <p>Supply and install complete the following solid timber fire door including metal door frame, painting, ironmongeries and mild steel fishtailed holdfast to brickwork or concrete, all to the instructions and recommendations of the manufacturer and to the approval of the Jabatan Bomba Malaysia.</p> <hr/> <p>B Double leaf 1 hour fire rated door overall size 1800mm x 2100mm high (Type D4)</p>	m	2		
		No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>PUMP HOUSE (cont'd)</u>				
	<u>WINDOW AND FIXED PANEL</u>				
	Precast concrete Grade 25 with and including all formwork, hoisting and setting in position, bedding, jointing and pointing in cement mortar (1:3) :-				
A	110mm x 150mm as specified lintol, reinforced with and including 4 nos. 12mm diameter high tensile bars with hooked ends and 6mm diameter mild steel stirrups at 150mm centres and formworks, as per Engineer's detail drawing	m	16		
B	Supply, deliver and fix chainlink fence window size 1000mm x 1200mm high complete with steel frame and including fixing screws and all necessary ironmongery and painting all as per Architect's Drawing No. MPKj 52/PPj/2019/062	No.	15		
	<u>FLOOR FINISHES</u>				
	<u>Externally</u>				
	Cement and sand (1:3) paving with a smooth trowelled finished as described :-				
C	25mm Thick to apron	m2	6		
	<u>Concrete Ramp</u>				
D	Construct and complete reinforced concrete ramp overall size 4800mm x 600mm x 100mm high including all necessary excavation, concrete, formwork, reinforcement, finishes and groove line all as per Engineer's details	No.	1		
	<u>Internally</u>				
	Cement and sand (1:3) screed as described :-				
E	25mm Thick to floor, laid to falls	m2	18		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>PUMP HOUSE (cont'd)</u>				
	<u>WALL FINISHES</u>				
	<u>Externally</u>				
	Cement and sand (1:6) plaster mixed with an approved plasticiser finish with a wood as described :-				
A	20mm Thick to wall and column	m2	24		
	Prepare and apply sealer, one undercoat and two finishing coats or approved equivalent weathershield paint as described to :-				
B	Plastered wall and column	m2	24		
	<u>Internally</u>				
	Cement and sand (1:6) plaster mixed with an approved plasticiser finish with a steel trowelled as described :-				
C	20mm Thick to wall and column	m2	24		
	Prepare and apply sealer, one undercoat and two finishing coats or approved equivalent weathershield paint as described to :-				
D	Plastered wall and column	m2	24		
	<u>CEILING FINISHES</u>				
	<u>Externally</u>				
	Supply and install approved gypsum board ceiling in size 600mm x 600mm x 12mm thick panel set out symmetrically from the centre of the area with exposed aluminium suspension system (measured separately) all as per S.O's approval				
E	To slope area including fixing at a height not exceeding 3.50m high	m2	8		
F	Natural annodised extruded aluminium 'T' as exposed suspension system suspended by 14 S.W.G. galvanised wire hangers with adjustable height and hooked to bars and the other and fixed to concrete soffit by eye lit pins or hook at a height not exceeding 3.50m high	m2	8		
G	Prepare and apply sealer, one undercoat and two finishing coats of emulsion paint as described to general surface of gypsum board ceiling not exceeding 3.50m high	m2	8		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>PUMP HOUSE (cont'd)</u> <u>CEILING FINISHES</u> <u>Internally</u> Supply and install approved gypsum board ceiling in size 600mm x 600mm x 12mm thick panel set out symmetrically from the centre of the area with exposed aluminium suspension system (measured separately) all as per S.O's approval				
A	To flat area including fixing at a height not exceeding 3.50m high	m2	18		
B	Natural anodised extruded aluminium 'T' as exposed suspension system suspended by 14 S.W.G. galvanised wire hangers with adjustable height and hooked to bars and the other end fixed to concrete soffit by eye lit pins or hook at a height not exceeding 3.50m high	m2	18		
C	Prepare and apply sealer, one undercoat and two finishing coats of emulsion paint as described to general surface of gypsum board ceiling not exceeding 3.50m high	m2	18		
	<u>SANITARY FITTINGS</u> Supply and fix the following approved coloured vitreous china sanitary fittings in standard colour and accessories including storing, assembling, bedding, plugging and screwing with matching screws, cutting and pinning or building in brackets, jointing and connecting to services and soil pipe and making good all work disturbed :-				
D	Approved 1/2" chrome plated regency pillar tap with chrome plated ABS handle	No.	1		
E	Approved stainless steel floor trap size 150mm x 150mm	No.	1		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<p><u>PUMP HOUSE (cont'd)</u></p> <p><u>COLLECTION :</u></p> <p>BQ2/L/1</p> <p>BQ2/L/2</p> <p>BQ2/L/3</p> <p>BQ2/L/4</p> <p>BQ2/L/5</p> <p>BQ2/L/6</p> <p>BQ2/L/7</p> <p>BQ2/L/8</p>				
	<p>PUMP HOUSE CARRIED TO SUMMARY:</p>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>AIRCOOLED CHILLER & RC PLINTH FOR BOMBA TANK</u>				
	Excavate, get out, part return, fill in and ram, deposit and spread in making up levels including trimming and grading where directed within the site and remainder load and cart away from site :-				
A	Oversite commencing from platform level to reduce level not exceeding 500mm deep	m3	30		
	<u>Lean concrete Grade 15 as described:</u>				
B	50mm Thick under aircooled chiller slab	m3	1		
C	Ditto under plinth bomba tank slab	m3	2		
	<u>Vibrated reinforced concrete Grade 30 as described in :-</u>				
D	200mm Thick aircooled chiller slab	m3	3		
E	300mm Thick plinth bomba tank slab	m3	12		
F	600mm high upstand beam	m3	5		
G	200mm Thick (consolidate thickness) bed of approved hardcore, spread, levelled, well rolled and consolidated including blinding top surfaces with sand as described under aircooled chiller slab	m2	15		
H	Ditto under rc plinth bomba tank slab	m2	40		
	<u>High tensile rod reinforcement as described :-</u>				
J	12mm Diameter in upstand beam	kg	546		
K	Ditto in rc plinth bomba tank slab	kg	588		
	Steel mesh fabric reinforcement to MS 145 well lapped at joint including notching around all obstructions and bending as required (measured nett - no allowance made for laps) as described:-				
L	A layer of BRC A7 in ground slab aircooled chiller	m2	15		
	<u>Use and waste of sawn formwork as described to :-</u>				
M	Side of upstand beam exceeding 500mm high but not exceeding 1.00m high	m	77		
N	Edges of plinth bomba tank slab not exceeding 250mm deep	m	40		
	Carried to Collection :				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<u>AIRCOOLED CHILLER & RC PLINTH FOR BOMBA TANK (Cont'd)</u>				
	<u>Use and waste of sawn formwork as described to :-</u>				
A	Edges of aircooled chiller slab not exceeding 250mm deep	m	16		
B	0.25mm Thick approved heavy duty polythene sheet damp-proof membrane, laid under plinth bomba tank slab, well lapped at joints including all necessary protection to prevent puncture (measured nett-no allowance made for laps)	m2	40		
C	Ditto, laid under aircooled chiller slab, ditto	m2	15		
	Ground treatment against subterranean termites using termiticides chemical soil treatment approved by Ministry of Health including providing five (05) years written guarantee :-				
D	Spray 'CYREN TC/HALEX 39EC' or other equal and approved termiticide with 5% at 5 litres per square metre for impregnation of soil surface below pad footing, ground beam and ground slab after laying of sand blinding and prior to concreting	Item	-	-	
	Cement and sand (1:3) paving with a smooth trowelled finished as described :-				
E	25mm Thick to plinth bomba tank slab	m2	40		
F	25mm Thick to aircooled chiller slab	m2	15		
	Cement and sand (1:6) plaster mixed with an approved plasticiser finish with a wood as described :-				
G	20mm Thick to upstand beam	m2	54		
	Prepare and apply sealer, one undercoat and two finishing coats or approved equivalent weathershield paint as described to :-				
H	Plastered to upstand beam	m2	54		
	Carried to Collection :				
	<u>COLLECTION :</u>				
	BQ2/M/1				
	BQ2/M/2				
	AIRCOOLED CHILLER & RC PLINTH FOR BOMBA TANK CARRIED TO SUMMARY :				

ITEM	DESCRIPTION	FROM PAGES	AMOUNT (RM)
	<u>SUMMARY</u>		
A	DEMOLITION WORKS	BQ2/A/2	
B	SITE CLEARANCE & EARTHWORKS	BQ2/B/2	
C	TURFING	BQ2/C/1	
D	ROAD AND CARPARK	BQ2/D/6	
E	FENCING AND GATES	BQ2/E/1	
F	SURFACE WATER DRAINAGE	BQ2/F/6	
G	SEWERAGE	BQ2/G/3	
H	WATER RETICULATION	BQ2/H/3	
J	RETAINING WALL	BQ2/J/2	
K	GUARD HOUSE, TOILET AND REFUSE COMPARTMENT	BQ2/K/13	
L	PUMP HOUSE	BQ2/L/9	
M	AIRCOOLED CHILLER & RC PLINTH FOR BOMBA TANK	BQ2/M/2	
	BILL NO.2 - EXTERNAL WORKS (ALL PROVISIONAL) CARRIED TO SUMMARY OF TENDER :		

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SUMMARY OF PRICES FOR MECHANICAL & ELECTRICAL WORKS

ITEM	DESCRIPTION	REFERENCES	AMOUNT (RM)
	<u>MECHANICAL WORKS</u>		
M1	COLD WATER SUPPLY & RAIN WATER HARVASTING SYSTEM	FROM PAGE SOP M-4	
M2	SANITARY PLUMBING INSTALLATION	FROM PAGE SOP M-6	
M3	AIRCONDITIONING & MECHANICAL VENTILATION SYSTEM	FROM PAGE SOP M-11	
M4	FIRE PROTECTION SYSTEM	FROM PAGE SOP M-17	
M5	LIFT INSTALLATION	FROM PAGE SOP M-19	
	<u>ELECTRICAL WORKS</u>		
E1	EXTERNAL ELECTRICAL SYSTEM	FROM PAGE SOP E-3	
E2	INTERNAL ELECTRICAL SYSTEM	FROM PAGE SOP E-11	
E3	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM	FROM PAGE SOP E-13	
E4	SOUND REINFORCEMENT SYSTEM	FROM PAGE SOP E-15	
E5	AUDIO VISUAL SYSTEM	FROM PAGE SOP E-16	
E6	STAGE LIGHTING SYSTEM	FROM PAGE SOP E-17	
E7	INFA & MISCLANENOUS	FROM PAGE SOP E-18	
	TOTAL B/F TO BUILDING BILL OF QUANTITIES		

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SCHEDULE OF PRICES FOR MECHANICAL WORKS

BILL M1: COLD WATER SUPPLY INSTALLATION & RAIN WATER HARVESTING SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	COLD WATER SUPPLY INSTALLATION				
1	100 mm dia. GI C underground pipe tapping-off from Hydrant water reticulation pipe to Fire fighting tank c/w valves, tapping saddle, brass ferrule, excavation work, backfilling, compaction and making goods etc.	m	80		
2	50 mm dia. GI C pipe tapping-off from SYABAS water meter to roof storage tank c/w bracket, support, valves, tapping excavation work, backfilling, compaction and making goods etc. as indicated on the drawings	m	95		
3	25 mm dia. GI C pipe tapping-off from 50mm dia. GI C pipe to sink & roof storage tank c/w bracket, support, valves, tapping saddle, excavation work, backfilling, compaction and making goods etc. as indicated on the drawing (for Severy Area and VIP toilet)	m	65		
4	25 mm dia. GI C pipe tapping-off from 50mm dia. GI C pipe to roof storage tank c/w bracket, support, valves, tapping saddle, excavation work, backfilling, compaction and making goods etc. as indicated on the drawing (for Bangunan Pondok Pengawal)	m	20		
5	25 mm dia. GI C pipe tapping-off from 50mm dia. GI C pipe to aircond make-up tank c/w bracket, support, valves, and etc. as indicated on the drawing	m	10		
TOTAL B/F TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL B/F FROM PREVIOUS PAGE				
6	HDPE water storage tank c/w ball float valve, tank support water flow/drain/scour pipe, mechanical level indicator external/internal aluminium cat ladder etc.				
	a. Roof Tank Capacity : 1500 gallons Size : 2500dia x 1700 (H)	nos	2		
	b. Roof Tank (To Serve VIP Toilet) Capacity : 150 gallons Size : 1200 (dia) x 750 (H)	no	1		
	c. Roof Tank (To Pondok Pengawal) Capacity : 150 gallons Size : 1200 (dia) x 750 (H)	no	1		
	d. Aircond Make-Up Tank Capacity : 150 gallons Size : 1200 (dia) x 750 (H)	no	1		
	e. SPAH Water Storage Tank c/w stainless steel electrode etc Capacity : 600 gallons Size : 1450 (dia) x 2100 (H)	no	1		
7	HydroPneumatic Variable Speed SPAH Water Booster pumpset c/w mounting bracket, valves, strainer, pressure gauge, flexible joint, pressure switch, labelling, power cabling etc for flash valve/wc Capacity : 25 igpm Head : 50 PSI (Cut In)	nos	2		
8	Pump control panel c/w MCCB, MCB, CT ELR, instrument meter, indicating lights, busbar, earth bar, power cabling to pumps and all neseccary accessories	no	1		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL B/F FROM PREVIOUS PAGE				
9	ABS Class 12 main distribution pipe run in roof area from roof tank c/w valves, support/mounting bracket, fittings, painting and all necessary accessories.	lot	1		
10	ABS Class 15 SPAH water main distribution pipe run in roof area from booster pumps/SPAH Tank c/w valves, support/mounting bracket, fittings, painting and all necessary accessories.	lot	1		
11	ABS '12' distribution pipe tapping-off from main pipe to individual toilet and appliances such as basin, tap, urinal, etc. c/w valves, support/mounting bracket, fitting, reducer and all necessary accessories.				
	i. Men's Toilet	lot	1		
	ii. Women's Toilet	lot	1		
	iii. Toilet 1	lot	1		
	iv. OKU Toilet 1	lot	1		
	v. OKU Toilet 2	lot	1		
	vi. VIP Toilet	lot	1		
	vii. Hand Wash Basin 1, 2, 3 & 4	lot	1		
12	ABS '12' distribution pipe tapping-off from roof tank to individual toilet and appliances such as basin, tap, urinal, etc. c/w valves, support/mounting bracket, fitting, reducer and all necessary accessories. (For Block Pondok Pengawal and Rumah Sampah)	lot	1		
13	ABS '15' SPAH water distribution pipe tapping-off from main pipe to individual toilet and appliances such as water closet c/w valves, support/mounting bracket, fitting, reducer and all necessary accessories.				
	i. Men's Toilet	lot	1		
	ii. Women's Toilet	lot	1		
	iii. Toilet 1	lot	1		
	iv. OKU Toilet 1	lot	1		
	v. OKU Toilet 2	lot	1		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL B/F FROM PREVIOUS PAGE				
14	All testing and commissioning inclusive pressure testing, flushing of pipe and all test required by the Consultant and/or relevance authorities.	lot	1		
B	RAIN WATER HARVESTING SYSTEM				
1	Intergrated Pre-Screen Filter With First Flush Function c/w all necessary accessories	no	1		
2	50 mm dia UPVC interconnection pipe from Pre Screen Filter To Rain Water Storage Tank c/w bracket and accessories	lot	1		
3	UPVC overflow, scour pipe pipe from tank to nearest drain c/w valve, bracket and accessories	lot	1		
4	25 mm dia. HDPE SPAH water distribution underground pipe pipe tapping-off from pumps to individual garden taps c/w GI pipe stand, excavation works, making good and necessary accessories.	lot	1		
5	Outdoor sand SPAH water filter c/w concrete based, valve, bracket, connection pipe and necessary accessories.	no	1		
TOTAL B/F TO SUMMARY OF M & E PRICES					

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SCHEDULE OF PRICES FOR MECHANICAL WORKS

BILL M2: SANITARY PLUMBING INSTALLATION

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Supply and install inspection chamber/manhole c/w HEAVY duty cover and all other related accessories and works to meet local authority/MPKj requirements as specified on the drawings and specification.	nos	3		
2	Supply and install 150dia. VCP pipe to connect between menhole/inspection chamber c/w all other related works and to meet local authorities requirement.	m	50		
3	Supply and install uPVC soil and waste pipe run at ground floor high level to menhole as specified and indicated on the drawings.	lot	1		
4	Supply and install uPVC pipe to connect sanitary ware such as basin, water closet, floor trap grease traps to uPVC soil waste pipe c/w all other related works as specified and indicated on the drawings for the following area.				
	i. Men's Toilet	lot	1		
	ii. Women's Toilet	lot	1		
	iii. Toilet 1	lot	1		
	iv. OKU Toilet 1	lot	1		
	v. OKU Toilet 2	lot	1		
	vi. VIP Toilet	lot	1		
	vii. Hand Wash Basin 1, 2, 3 & 4	lot	1		
	viii. Severy Area	lot	1		
	ix. Hose Reel Riser	lot	1		
	x. AHU Room	lot	1		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL B/F FROM PREVIOUS PAGE				
4	Supply and install uPVC underground/aboveground pipe to connect sanitary ware such as basin, water closet, floor trap to Menhole/Inspection Chamber (For Block Pondok Pengawal & Rumah Sampah) as indicated on the drawings	lot	1		
5	Supply and install uPVC vent pipe from menhole to roof level c/w vent cowl and all other related works	lot	1		
6	Supply and install 100x100 stainless steel floor trap cover as specified and indicated on the drawings	nos	30		
7	Supply and install gully trap c/w non slip cover and grating as specified and indicated on the drawing.	no	1		
8	Supply and install stainless steel automatic biomastic grease interceptor c/w biomastic enzyme and all necessary accessories Capacity : 350 Kg Flow rate : 75 gpm	no	1		
9	All testing and commissioning inclusive pressure testing, flushing of pipe and all test required by the Consultant and/or relevance authorities.	lot	1		
	TOTAL B/F TO SUMMARY OF M & E PRICES				

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SCHEDULE OF PRICES FOR MECHANICAL WORKS

BILL M3: AIRCONDITIONING AND MECHANICAL VENTILATION SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
A	AIRCONDITIONING SYSTEM				
1	<u>AIR COLLED CHILLED WATER AIRCONDITIONING SYSTEM</u>				
a	Supply and Install Air Cooled Modular type chiller , using HFC-R410a refrigerant, c/w microprocessor control system, valves, pressure gauge, power cabling, piping works, power cabling and all necessary accessories - Nominal Cooling Capacity : 450,000 Btu/hr each	nos	2		
b	Supply and Installation of chilled water pumpset c/w electrical motor, flexible connector, pump plinth, valves, gauges, power cabling and all necessary ancillary equipments as per drawing and specification Capacity : 120 ugm Pump Head : 40 m	nos	2		
c	Supply and installation of chiller & pumps control switchboard c/w power cabling indication light, volt/amp meter, termination of incoming cable to the panel and all necessary accessories.	no	1		
d	Supply, delivery and install pre-insulated 70mm dia. Chilled water distribution main pipe from chiller, chilled water pumps to AHU's c/w valves, bracket, pressure gauge, air release valve, butterfly valve, check valve, flexible coupling, strainer flow switches as per drawing and specification.	m	40		
e	Supply, delivery and install 150 gallon HDPE tank c/w ball float valve, over flow/drain/scour pipe, piping works tapping to chilled water piping system c/w all necessary works.	no	1		
TOTAL B/F TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
f	Supply delivery and Install Air Handling unit c/w cooling coils, blower fan motors, filter, slight glass, Schrader valves isolation valves, 3-way valve, chilled water pipe, controller cards, hange,r bracket and as per drawings and specification 1. AHU -1 - Capacity : 900,000 Btu/hr - Air Flow : 22,500 cfm	no	1		
g	Supply deliver and install complete set of GI sheet supply air ducting c/w plenum box, opening for dampers, splitters, hinger, rods, inspection doors, fibreglass wrapped with aluminium foil insulation sealant and other accessories for complete installation of ducting system as indicated on drawings	lot	1		
h	Supply deliver and install complete set of GI sheet return air ducting c/w plenum box, opening for dampers, splitters, hinger, rods, inspection doors, fibreglass wrapped with aluminium foil insulation sealant and other accessories for complete installation of ducting system as indicated on drawings	lot	1		
i	Supply deliver and install complete set of flexible type supply air ducting c/w fibreglass wrapped with aluminium foil insulation sealant, hanger, duct supprt and other accessories for complete installation of ducting system as indicated on drawings	lot	1		
j	Supply and install complete set of supply 400 mm dia. air jet diffuser/grilles c/w plenum boxed, adjustable volume dampers and all necessary accessories as indicated on the drawings	nos	42		
l	Supply and install complete set of 600x1200 return air grilles c/w all necessary accessories as indicated on the drawings	nos	7		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY		
	TOTAL B/F FROM PREVIOUS PAGE				
m	Supply deliver and install complete set of 400x300 fresh air ducting c/w volume control damper, supply air grilles, air filter bird netting and others necessary accessories	lot	1		
n	To supply delivery and install AHU's control panel c/w power wiring curcuit breaker, indication light and all necessary accessories as indicated and specified on the drawings and specification.	no	1		
o	Supply, delivery and install insulated PVC aircondition drain pipe from AHU,s to nearest drain/floor trap c/w c/w all necessary accessories	lot	1		
o	Supply, delivery and install 50mm thick insulation for AHU's room clw all necessary accessories.	lot	1		
p	To Supply and install fusible link fire damper c/w all necessary accessories as specified and indicated on the drawings				
	- 1900 x 600 return Air Duct	nos	1		
	- 1900 x 600 Supply Air Duct	nos	1		
2	<u>AIRCOOLED SPLIT UNIT AIRCOND</u>				
a	Supply and Install air cooled split unit c/w condenser motor, fan, cooling coil, hermatic compressor. Anti vibration, support, bracket, refrigerant pipe, gasses, insullation, drain pipe and all necessary accessories as shown on the drawings.				
i	BACK STAGE PREPARATION AREA Capacity: 15,000 Btu/hr Type: Wall Mounted Aircond	No	1		
ii	VIP ROOM Capacity: 18,000 Btu/hr Type: Ceiling Cassette	No	2		
iii	Utility Room Capacity: 14,000 Btu/hr Type: Wall Mounted Aircond	No	1		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
B	MECHANICAL VENTILATION SYSTEM				
1	<u>Ventilation Fans</u> To supply delivery and install exhaust fan c/w wiring, starter board and control wiring interlocking to lighting as per specification and drawings that include <ul style="list-style-type: none"> i EAF G- 1 (Wall Mounted Type) - 800 CFM @ 55 Dba For MSB Room ii EAF G- 2 (Wall Mounted Type) - 800 CFM @ 55 Dba For Store Room iii EAF 1 - 1 (Ducted Type Exhaust Fan) - 800 CFM @ 55 Dba For Severy Area iv EAF 1 - 2 (Wall Mounted Type) - 300 CFM @ 55 Dba For M&E Room v EAF 1 - 3 & 4 (Wall Mounted Type) - 100 CFM @ 55 Dba For Male & female Toilet vi EAF 1 - 5 (Wall Mounted Type) - 100 CFM @ 55 Dba For VIP Toilet 				
2	Supply deliver and install complete set of GI sheet exhaust air ducting c/w exhaust air grille, bracket, hanger bird netting and all necessary accessories	lot	1		
C	TESTING AND COMMISSIONING				
	All testing and commisioning inclusive pressure testing, flushing of pipe and all test required by the Consultant and/or relevance authorities.	lot	1		
	TOTAL B/F TO SUMMARY OF M & E PRICES				

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SCHEDULE OF PRICES FOR MECHANICAL WORKS

BILL M4: FIRE PROTECTION SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	FIRE DETECTION SYSTEM				
a	Supply and Install Semi Addressable Main Fire Alarm Panel (MFAP) c/w mimic diagram, backup battery charger and all necessary accessories located at Ground Floor	no	1		
b	Supply and Install RPPU c/w backup battery charger and all necessary accessories located at Fire Fighting Pumps Room	no	1		
c	Supply and Install Remote Panel c/w backup battery charger and all necessary accessories located at Pondok Pengawal	no	1		
d	Supply and Install of the the following items c/w all necessary accessories works.				
i.	Addressable Manual Break Glass	no	7		
ii.	Addressable Smoke Detector	no	7		
iii.	150mm dia. Alarm Bell c/w wiring in GI conduit	no	7		
e	2 x 1.5mm ² PVC cabling looping from MFAP to detectors, flow switch, fire damper, manual break glass etc in in GI Conduit Trunking (Loop 1)	lot	1		
f	Complete remote cabling from MFAP panel as indicated on the drawings to remote Panel located at Guard House c/w pipe sleeve etc.	lot	1		
g	To supply and install SPKA System c/w registration, licence and and necessary accessories as per BOMBA requirement	lot	1		
TOTAL B/F TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
h	7C x 2.5mm ² Armoured cabling from MFAP to RPPU unit located at Rumah Pumps c/w GI pipe sleeve, excavation works, backfilling, making goods etc.	lot	1		
B	HORE REEL SYSTEM				
a	Supply and Installation of BOMBA approved duty pumpset c/w electrical motor, flexible connector, valves, strainer and all necessary ancillary equipment Capacity : 30 igpm Pump Head : 135 ft	no	1		
b	Supply and Installation of standby BOMBA Approved pumpset c/w diesel engine driven, diesel tank, battery, flexible connector, valves, strainer and all necessary ancillary equipment Capacity : 30 igpm Pump Head : 135 ft	no	1		
c	Supply and installation of pump control panel c/w power cabling, indication light, volt/amp meter, termination of incoming cable to the panel and all necessary accessories.	no	1		
d	Supply and installation of GI class C Hose Reel pipework tapping-off from Fire Fighting water tank to pumps c/w valves pressure switch, automatic pressure relief valve, pressure gauge, check valve bracket, pipe support, painting work and all necessary accessories	lot	1		
e	Supply and installation of GI class C Hose Reel distribution pipework from pumps to individual hose reel drums c/w valves, automatic air relief valve, bracket, pipe support, painting work and all necessary accessories				
i	50 mm dia.	m	125		
ii	25 mm dia.	m	15		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
f	Supply and install universal type hose reel drums c/w jet./spray nozzle, 25mm dia 30m length rubber hose, gate valve, bracket and all necessary accessories.	nos	7		
C	SPRINKLER SYSTEM				
a	Supply and Installation of BOMBA approved duty OH3 - 15M pumpset c/w electrical motor, flexible connector, valves, pressure gauge strainer and all necessary ancillary equipment Capacity : 2700 litre/min (nominal rating) Pump Head (outlet) : 2.0 bar (nominal rating)	no	1		
b	Supply and Installation of BOMBA approved standby OH3 - 15M pumpset c/w diesel engine driven, fuel tank, batteris, flexible connector, valves, pressure gauge strainer and all necessary ancillary equipment Capacity : 2700 litre/min (nominal rating) Pump Head (outlet) : 2.0 bar (nominal rating)	no	1		
c	Supply and Installation of BOMBA approved jockey pumpset c/w electrical motor, flexible connector, valves, pressure gauge strainer and all necessary ancillary equipment Capacity : 30 igpm Pump Head : 180 ft	no	1		
d	Supply and installation of Sprinkler pump control panel c/w cabling, indication light, volt/amp meter, termination of incoming cable to the panel and all necessary accessories.	no	1		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
e	Supply and Install compartmented Hot Dip Galvanised Pressed Steel fire fighting tank c/w overflow/drain/warning pipe, ball float valve, internal/external cat ladder, stainless steel electrode, mechanical level indicator, painting works and all necessary accssories. Tank Capacity : 33,600 Gallons Tank Size : 4,800 x 8,400 x 3,600 (H)	no	1		
f	Header and terminal pipe work for OH3 15M sprinkler from storage tank and breeching inlet to pump and system installation valve as indicated on the drawings	lot	1		
g	OH3 15M Alarm Valve assembly c/w valves, gate valves, alarm gong, pressure gauge, isolating gate valve and all necessary ancillary equipment	no	1		
h	Supply and installation of GI class C Sprinkler distribution pipe riser from alarm valve at Ground floor to design point c/w flow switches, motorised valve, air release valve, bracket, pipe support, painting works and all necessary accessories.	lot	1		
i	Sprinkler range pipeworks c/w bend, tees painting, special fitting, hanger and bracket and all necessary accessories tapping off from distribution pipeas specified and indicated on the drawings:				
i	Ground Floor	lot	1		
ii	1 st Floor	lot	1		
iii	Roof	lot	1		
j	Supply and installation sprinkler head c/w sprinkler rossette and all necessary accessories for the following items				
i	Ground Floor	nos	150		
ii	1 st Floor	nos	145		
iii	Roof	nos	344		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY		
	TOTAL B/F FROM PREVIOUS PAGE				
k	Supply and installation of 100MM GI class C Sprinkler return pipework, c/w air release valve, bracket, pipe support, painting works and all necessary accessories.	lot	1		
l	Supply and install 4 way breeching inlet c/w cabinet piping works to tank, signage, bracket and all necessary accessories.	no	1		
m	Supply and installation of 150MM GI class C supply pipework from breeching inlet to water tank , c/w support, painting works and all necessary accessories.	m	60		
D	PORTABLE EXTINGUISHER				
a	2.2 KG Carbon Dioxide (CO2) c/w gases charge and mounting bracket, BOMBA Certificate	nos	5		
b	9 KG ABC multi purpose dry powder c/w gases charge and mounting bracket BOMBA Certificate	nos	15		
E	CARBONDIOXIDE (CO2) FIXED INTALLATION SYSTEM				
a	One lot of 45kG cylinder c/w CO2 gases, discharge valve, pressure relief valve, pressure gauge, pilot cylinder and accessories	nos	2		
b	Breakglass, key switch, alarm bells, flashing light, smoke and heat detector c/w wiring in GI conduit and accessories	lot	1		
c	Schedule 40 piping works c/w bracket, hanger, painting works and all necessary accessories	lot	1		
d	Two (2) zone CO2 Control panel c/w battery, charger etc.	no	1		
	TOTAL B/F TO NEXT PAGE				

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SCHEDULE OF PRICES FOR MECHANICAL WORKS

BILL M5: LIFT INSTALLATION

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	<u>15 PERSONS PASSENGER LIFT - L1</u>				
a	Supply, delivery and installation of one (1) no. off New ACVVVF Permanent Magnet Gearless Motorroomless Passenger Lift Capacity 15 Persons (1000 Kg), and travel speed 1.0 mps c/w steel painted finish car interior walls & landing door door jamb and local decotile flooring and all others necessary accessories as per Specification and Tender Drawings.	lot	1		
b	Supply, delivery and installation of lift pit power and bulk head lighting c/w necessary work.	lot	1		
c	Supply, delivery and installation of lift pit cat ladders	lot	1		
d	Supply, delivery and installation of angle iron sill support.	lot	1		
e	Supply, delivery and install of handicapped feature such as braille, guard rail etc.	lot	1		
f	Supply, delivery and installation of lift switchboard c/w termination of electrical incoming cable. Wiring work to lift control panel etc.	lot	1		
g	Submission to Machinery Department of the above installation until final clearance	lot	1		
h	Testing And Commissioning of the above installation until final clearance from relevant Authorities	lot	1		
TOTAL B/F TO NEXT PAGE					

[illegible]

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

SCHEDULE OF PRICES FOR ELECTRICAL WORKS

BILL E1 - EXTERNAL ELECTRICAL INSTALLATION

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p>NOTE: All quantities mentioned in these bills are provisional only and will be subjected to final measurement. The contractor will be paid for the NetT quantities being installed.</p> <p><i>Rates shall include for all operation necessary for the designs, manufacturer, supply, delivery, installation, erection, testing and commissioning.</i></p> <p>A. STREET/COMPOUND LIGHTING</p>				
1	8m height mid Hinged Pole with Flange Mounted Head Frame c/w GI connecting block, internal wiring 1 x 4c 2.5mm ² PVC/SWA/PVC anchor bolts, nuts, washer, flange plate and all accessories.	Nos.	5		
2	4m Mounting height with single lantern holder hot dip galvanised column flange type c/w GI connecting block 6A MCB(6kA), internal wiring 2 X 1C 2.5mm ² PVC/PVC twin flex, cable, anchor bolts, nuts, washer, flange plate and all accessories.	Nos.	5		
3	Labelling all poles with 50mm wideweather-proof reflective reflective sticker at 1.5m above ground & as per S.O instructions.	Nos.	10		
4	Reinforced concrete foundation for the street lighting pole as per drawing.	Nos.	10		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	c/f fom previous pg				
5	100 Watts LED quality luminaire and lamps suitable for street lighting c/w all accessories.	Nos.	5		
6	150 Watts LED quality luminaire flood light lighting c/w bracket and all accessories.	Nos.	10		
7	50 Watts LED quality luminaire flood light suitable for external signage c/w concrete plith, wire guard and all accessories.	Nos.	2		
8	1 x 36w bare channel fluorest light fitting	Nos.	2		
B	UNDERGROUND CABLE <i>Rates should include for the supply and laying of underground cable including jointing, terminating, cutting using premix cuttermachine, resurfing, trenching, back filling, bricks, sands, orange nylon, cable maker, testing and commissioning & etc.</i>				
1	1 x 4C 240mm ² XLPE / SWA / PVC Cu cables laid/ burried underground c/w termination, excavation works, backfilling and all necessary accessories works from TNB Meter Kiosk to MSB as indicated on the drawing (provisional)	m.	70		
2	1 x 4C 16mm ² PVC/SWA/PVC (Cu) cable laid underground from MSB to Feeder Pillar c/w termination as per drawing. (Provisional)	m.	70		
3	1 x 2C 10mm ² PVC/SWA/PVC (Cu) cable laid underground from Feeder Pillar to street lighting pole clw termination and all nesaccary accessories as per drawing. (Provisional)	m.	90		
4	1 x 2C 10mm ² PVC/SWA/PVC (Cu) cable laid underground from Feeder Pillar to compound lighting pole clw termination and all nesaccary accessories as per drawing. (Provisional)	m.	170		
5	1 x 2C 10mm ² PVC/SWA/PVC (Cu) cable laid underground from Feeder Pillar to Guard House clw termination and all nesaccary accessories as per drawing. (Provisional)	m.	25		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL B/F FROM PREVIOUS PAGE				
6	1 x 2C 6mm ² PVC/SWA/PVC (Cu) cable laid underground from feeder pillar to external signage clw termination and all necessary accessories as per drawing. (Provisional)	m.	35		
C	FEEDER PILLAR				
	60A TPN Weatherproof Galvanised Steel Feeder Pillar with min.thickness 0f 2mm c/w MCCB, MCB's, Change-Over Switch, Selector Switch, 15A Time Switch (24 Hours Spring Reserved), 13A SSO, 1x18W (F) Fitting with door switch & Earthing System as per drawings.	no	1		
D	PIPE SLEEVE				
1	100mm dia. HDPE PN10 pipe for underground cable entering building/below concrete slab including of excavation, back filling, compacting, and making good of all areas involved as per drawing.	lot	1		
2	150mm dia. GI pipe for underground cable crossing road including of excavation, back filling, compacting, premixing and making good of all areas involved as per drawing.	lot	1		
E	TESTING AND COMMISSIONING				
1	Complete Testing and commissioning for the above installations.	lot	1		
TOTAL B/F TO SUMMARY OF M & E PRICES					

BILL E2 - INTERNAL ELECTRICAL SYSTEM

SOP E-4

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
8	Calibration of all Electrical Protection Relay as per required by IEE, TNB and Suruhanjaya Tenaga (ST).	lot	1		
9	Testing & Commissioning of the entire equipments.	lot	1		
B	SUB-SWITCH BOARD (SSB's) & DISTRIBUTION BOARDS (DB'S)				
1	Supply & install Metaclad Form 2B Type Tested 150A TPN Sub-SwitchBoard (SSB-1) c/w MCB, MCCB, EF&OC IDMT (micro-processor type), Shunt Trip ,Ammeter c/w Max Demand, Voltmeter, PFM, DPM, Fuse, CT's, Surge Suppressor, Selector Switch, Earthing Resistance, Internal wiring and related necessary accessories as per Drawings.	no.	1		
2	To supply & install Metaclad Unit Type Distribution Board (DB) c/w MCB's,MCCB',ELR, Digital Meter, Indicator Light and necessary accessories as per Drawings.				
i	60A TPN DB- GR	no.	1		
ii	60A TPN DB- 1	no.	1		
iii	60A TPN DB- HL	no.	1		
iv	60A TPN DB- HP	no.	1		
v	60A TPN DB- AC	no.	1		
vi	40A TPN DB (CONTROL DB FOR DIMMEABLE LIGHTING)	no.	1		
vii	30 A SPN DB.GH	no.	1		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
C	SUBMAIN CABLING				
	<i>To supply and install Submain Cables from Main Switch Board (MSB) to Sub-Switch Board (SSB) & from SSB's to Distribution Board (DB's) and related M&E Control Panel c/w approved trunking, cable tray G.I pipes, PVC pipes or direct buried underground c/w termination, jointing, etc as per TNB requirements.</i>				
	i 1 x 4C 95mm ² XLPE / SWA / PVC Cu cables laid/buried underground c/w HDPE pipes and accessories from MSB to DB-CHILLER	m	30		
	ii 1 x 4C 50mm ² XLPE / SWA / PVC Cu cables laid/buried underground c/w HDPE pipes and accessories from MSB to DB-SPCP	m	22		
	iii 1 x 4C 16mm ² XLPE / SWA / PVC Cu cables laid/buried underground c/w HDPE pipes and accessories from MSB to DB-HRCP	m	22		
	iv 1 x 4C 16mm ² PVC/ SWA / PVC Cu cables laid/buried underground c/w HDPE pipes and accessories from MSB to DB-CWP	m	25		
	v 4 x 1C 70mm ² PVC/SWA/PVC Cu cables laid in GI trunking c/w accessories from MSB to DB-SSB1	m	20		
	vi 4 x 1C 50mm ² PVC/SWA/PVC Cu cables laid in GI trunking c/w accessories from MSB to DB-AHU	m	15		
	vii 4 x 1C 16mm ² PVC/SWA/ PVC Cu cables laid in GI trunking c/w accessories from MSB to DB-GR	m	5		
	vii 4 x 1C 16mm ² PVC/PVC Cu cables laid in GI trunking c/w accessories from SSB-1 to DB-HL	m	20		
	viii 4 x 1C 16mm ² PVC/PVC Cu cables laid in GI trunking c/w accessories from SSB-1 to DB-HP	m	20		
	ix 4 x 1C 25mm ² PVC/PVC Cu cables laid in GI trunking c/w accessories from SSB-1 to DB-1	m	85		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
	x 4 x 1C 25mm ² PVC/PVC Cu cables laid in GI trunking c/w accessories from SSB-1 to DB-AC	m	86		
	xi 4 x 1C 25mm ² PVC/PVC Cu cables laid in GI trunking c/w accessories from SSB-1 to DB-LIFT	m	50		
	xii 4 x 1C 16mm ² PVC/PVC Cu cables laid in GI trunking c/w accessories from DH-1 to DB-Control (Dimmeble Light)	m	15		
D	<u>FINAL SUB-CIRCUIT WIRING</u> <i>To supply,install&termination works of the Final Sub-Circuit Wiring from Distribution Boards, SSO Cover, lighting switches and associated works with the approved materials as per relevant Authorities requirements.</i>				
1	Wiring of 1 x 13A Switch Socket Outlet (SSO) using 2 x 2.5 mm ² PVC/PVC cable + Earth wire inside exposed or concealed conduits.	nos	40		
2	Wiring of 2 x 13A Switch Socket Outlet (SSO) using 2 x 2.5 mm ² PVC/PVC cables + Earth wire inside concealed or exposed G.I conduits.	no	23		
3	Wiring of 20A Switch Socket Outlet for ACSU Point using 2 x 4mm ² PVC cable + Earth wire in exposed G.I conduits as indicated on the drawings	no	6		
4	Wiring of lighting points using 2x1.5mm ² PVC + Earth cables in concealed/exposed G.I conduits with 10A Switch & necessary accessories.	no	145		
5	Wiring of lighting points using 2x1.5mm ² PVC + Earth cables in concealed/exposed G.I conduits with 10A 2-Way Switch at Stage Area and Passageway c/w necessary accessories.	no	41		
6	Wiring of lighting points using 2x2.5mm ² PVC + Earth cables in concealed/exposed G.I conduits with 10A 2-Way Switch for Main Hall Area lighting c/w necessary accessories. (Note: remote swithes located in Control Room)	no	42		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
6	Wiring of lighting points using 2x1.5mm ² PVC + Earth cables in concealed/exposed G.I conduits with 10A Switch & necessary accessories. (for LED Strip Light)	no	21		
7	Wiring of Unswitched EMERGENCY Light points using 2x1.5mm ² PVC cables in concealed/exposed G.I conduit and necessary accessories.	no	59		
8	Wiring of Unswitched KELUAR Sign points using 2x1.5mm ² PVC cables in concealed/exposed G.I conduits and necessary accessories.	no	15		
9	Wiring for Hand-Dryer unit using 2x4.0mm ² PVC+Earth wire	no	4		
10	Wiring for Exhaust Fan unit with 3x1.5mm PVC cables	nos	5		
11	Wiring for Kitchen Exhaust Fan unit with 3x2.5mm PVC cables	no	1		
12	Wiring of Chandelier points using 2x2.5mm ² PVC + Earth cables in concealed/exposed G.I conduits with 10A Switch & necessary accessories.	nos	4		
13	Control Wiring Dimmeable Lighting using 2x1.5mm ² PVC + Earth cables in concealed/exposed G.I conduits with 10A Switch & necessary accessories.	nos	60		
E	<u>LIGHTING AND FITTING</u> <i>To supply and install light fitting complete with all fixing material, suspension, lamp and all accessories as per drawings and specifications.</i>				
1	1 x 18W T8 LED surface mounted bare channel fluo. ftg.	no	63		
2	1 x 14W T8 LED surface mounted bare channel fluo. ftg.	no	6		
3	10W LED recessed mounted down light c/w glass cover	no	21		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
4	20W LED recessed mounted down light c/w glass cover	no	52		
5	24W LED Dimmable recessed mounted down light c/w glass cover	no	17		
6	60W LED Dimmable recessed mounted down light c/w glass cover	no	42		
7	18W LED surfaced mount down light c/w aluminium alloy ring with aluminium heat sink & glass cover (square type)	no	20		
8	2x20W LED wall light c/w accessories	no	16		
9	2x20W LED weather proof wall light c/w accessories	no	10		
10	9W/M LED colouredvstrip light c/w accessories	m	690		
11	9W/M LED strip light c/w accessories	m	100		
12	BOMBA approved 16W Slimline LED Self Contained recessed EMERGENCY Light c/w 3 HOURS rechargeable battery	no	33		
13	BOMBA approved 16W Slimline LED Self Contained surfaced mounted EMERGENCY Light c/w 3 HOURS rechargeable battery	no	11		
14	BOMBA approved 2 x10W LED Self Contained surfaced mounted EMERGENCY Light c/w 3 HOURS rechargeable battery	no	6		
15	BOMBA approved 8W Super Bright Quality Slimline LED KELUAR Sign c/w 3 HOURS rechargeable battery.	no	15		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
16	30 l/s air flow Hand-Dryer Unit c/w installation	no	4		
17	1400mm dia Ceiling Fan c/w necessary accessories.	no	1		
18	2100mm dia Heli Fan c/w fan support and all necessary accessories.	no	3		
19	Chandellier light fitting c/w hanger, support and all necessary accessories.	no	4		
F	<u>EARTHING SYSTEM</u>				
1	Complete earthing system for the above	lot	1		
2	Complete earthing system for the whole building as indicated on the drawing	lot	1		
G	<u>LIGHTNING PROTECTION SYSTEM</u>				
	<i>Supply and install the following Lightning Protection System c/w standard related material as per drawings and specifications.</i>				
1	25mm x 3mm thick Copper Tape Down Conductor in conceal PVC sleeves/pipes c/w clips and accessories.	m	410		
2	Early Sreamer Air Terminal c/w Base ,Clips and accessories.	nos	5		
3	Test Clamps mounted at 2100 mm above ground	nos	12		
4	50 mm dia PVC pipe 2100 length to protect copper down conductor at ground level	m	50		
	TOTAL B/F TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
5	Concrete/RC Earth Chamber c/w cover, Clamp, Earth Rod and all accessories required to achieve Earthing Resistance of less than 5 Ohms.	m	12		
H	<u>TESTING & COMMISSIONING</u>				
1	Testing and Commissioning of the entire system of all apparatus until hand over.	lot	1		
TOTAL B/F TO SUMMARY OF M & E PRICES					

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

BILL E 3 - CLOSED CIRCUIT TV (CCTV) SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	NOTE: To supply,deliver,install,testing and commissioning including all necessities for the complete CCTV System. Bidders shall submit proposed products data sheets.				
1	To supply 4Megapixel Network IR Dome Camera, 1/3" 4M CMOS, 2.8~12mm(4.3x) motorized varifocal lens, Max.20fps@4M resolutions, Max.30fps@2M resolutions, H.265,H.264, MJPEG codec supported, motion detection, tampering, Micro SD (128GB) memory slot, PoE/12V DC, IR viewable length 20m, Hallway view support, LDC support and all necessary for full complete system	nos	6		
2	To supply 4Megapixel Network IR Bullet Camera, 1/3" 4M CMOS, 2.8~12mm(4.3x) motorized varifocal lens, Max.20fps@4M resolution, Max.30fps@2M resolution, H.265,H.264, MJPEG codec supported, multiple streaming, motion detection, tampering, Defocus detection, micro SD (128GB) memory slot, PoE/12V DC, 30M IR Viewable length, IP66, IK10, LDC support (Lens Distortion Correction) and other necessary accessories for full complete system.	nos	14		
3	To supply 2M 23x Network PTZ Dome Camera, 1/2.8" 2.4M CMOS, Max. 2MP (1920 x 1080) resolution, H.265, H.264, MJPEG codec support, Multiple streaming, WiseStreamII support, Day & Night (ICR), WDR (120dB), DJS with Built-in Gyro sensor, Tampering, Motion detection, Memory slot (Max. 256GB), IP66, IK10 and other necessary accessories for full complete system.	nos	2		
4	To supply Network Controller, superior system compatibility, 3D Joystick control, Quick and easy installation, SSM Support and all necessary for full complete system	nos	1		
5	To supply 32CH Network Video Recorder, Max. 12MP Camera supported, 256Mbps network camera recording, 4K video out on HDMI monitor support, Dual monitor video out support, H.265, H.264, MJPEG compression support, WiseStream support, Max. 8 internal HDDs (48TB), e-SATA / iSCSI storage support, Easy installation with front swap hard disks, ARB, Failover (N+1), RAID 5 support, P2P service (QR code connect) support and other necessary accessories.	nos	1		
TOTAL B/F TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
6	To supply workstation c/w Intel® Core™ i7-10700 (8 Core, 16M cache, base 2.9GHz, up to 4.8GHz), 16GB DDR4 2933MHz UDIMM Non-ECC, 3.5" 1TB 7200rpm SATA Hard Disk Drive, NVIDIA® Quadro® P620, 2GB, 4 mDP, 4 RAM slots, support up to 128GB, pre-installed with Windows 10 Pro (64-bit) and other necessary accessories for full complete system.	nos	2		
7	To supply 40 inch tv c/w 24/7 operationg and other necessary accessories for full complete system.	nos	2		
8	To supply 24 port 10/100T POE managed access switch with 4 SFP uplinks, 375W PoE power budget, 5 years warranty (POE switch for Ground floor and 1st floor camera) and other necessary accessories for full complete system.	nos	2		
9	To supply 24-port 10/100/1000T stackable switch (Stackable up to 4 units) with 4 SFP+ ports and 2 fixed power supplies, 5 years warranty (Core switch at CCTV ROOM) and other necessary accessories for full complete system.	no	1		
10	To supply 1000VA UPS and other necessary accessories for full complete system.	nos	1		
11	To supply 19" Floor Standing Equipment Rack and other necessary accessories for full complete system.	no	1		
12	To supply system wiring running in conduit and / or trunking c/w all necessary accessories	lot	1		
13	To supply system wiring running in conduit and / or trunking c/w all necessary accessories for remote control system	lot	1		
14	Testing and Commissioning of the entire system of all apparatus until hand over.	lot	1		
TOTAL B/F TO SUMMARY OF M & E PRICES					

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

BILL E 4 - SOUND REINFORCEMENT SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
1	To supply and install versatile Blu-Ray, DVD and CD/SD/USB player and other necessary accessories for full complete system	Nos	1		
2	To supply and install wireless handheld microphone c/w receiver and other necessary accessories.	Nos	2		
3	To supply and install mic stand and other necessary accessories	Nos	2		
4	To supply and install dynamic handheld wired microphone c/w 5 meter extension cable and other necessary accessories	Nos	2		
5	To supply and install 16 ch audio mixing console and other necessary accessories.	Nos	1		
6	To supply and install Microphone Receptacle Panel and other necessary accessories.	Nos	1		
7	To supply and install 19" Floor Standing Equipment Rack and other necessary accessories.	Nos	1		
8	To supply and install 4 x 600W power amplifier Amplifiers c/w DSP + Dante feature and other necessary accessories.	Nos	1		
9	To supply and install 4 x 300W power amplifier Amplifiers c/w DSP + Dante feature and other necessary accessories.	Nos	1		
10	To supply and install wmp level (volume) and other necessary accessories.	Nos	1		
11	To supply and install wmp selector (source selector) and other necessary accessories.	Nos	1		
12	To supply and install 15" 300W 2-way box speaker and other necessary accessories.	Nos	4		
13	To supply and install monitor speaker and other necessary accessories.	Nos	2		
TOTAL B/F TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	TOTAL B/F FROM PREVIOUS PAGE				
14	To supply and install 18" 400W subwoofer and other necessary accessories	Nos	2		
15	To supply and install ceiling monitor speaker and other necessary accessories for full complete system.	Nos	1		
16	To supply and install unmanaged network switch and other necessary accessories for full complete system.	Nos	1		
17	Wiring & conduiting works	lot	1		
18	Testing and Commissioning of the entire system.	Lot	1		
TOTAL B/F TO SUMMARY OF M & E PRICES					

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

BILL E 5 - AUDIO VISUAL SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	NOTE: To supply,deliver,install,testing and commissioning including all necessities for the complete CCTV System. Bidders shall submit proposed products data sheets.				
1	70" smart tv c/w fixed bracket	nos	8		
2	HDMI extender receptacle panel c/w accessories	lot	1		
3	HDMI receiver/converter c/w accessories	lot	1		
4	HDMI receptacle panel c/w accessories	lot	1		
5	4 x 4 HDMI matrix switcher c/w accessories	lot	1		
6	CPU c/w Internal Hard Disk, Application Software, 21" LCD Monitor and necessary accessories	lot	1		
7	To supply DTP transmitter for HDMI - decorator-style wallplate and other necessary accessories for full	lot	1		
8	HDMI Wiring & conduiting works	lot	1		
9	Equipment Rack c/w accessories	no	1		
10	Testing and Commissioning of the entire system of all apparatus until hand over.	lot	1		
TOTAL B/F TO SUMMARY OF M & E PRICES					

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

BILL E 6 - STAGE LIGHTING SYSTEM

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<i>To supply, deliver, install, test and commission the following Stage Lighting System as specified in the drawings and specifications.</i>				
1	12 CH Lighting Control Desk c/w 24 & 48 Faders , 1xSVGA Output for displaying memories, 1 x USB Connector, 1 x DMX 512/1990 OP, 36 Groups, 96 Presets, 96 Pallets and 378 Effects.	nos	1		
2	6 CH 3kW Wall Mounted Digital Dimmers c/w 5 Keypad, 12 CHAR. LED Display & Scrolling Menu, 10 User Selectable Dimmer Laws, Filtering, 4000 Step Fade Resolution & Programmed Data Saved.	nos	2		
3	500 W LED, 15-38 Beam Angle Range, High Performance Zoom FRESNEL Spotlight c/w Lamps, Clamps & Safety	nos	2		
4	250W LED, High Performance CYCLORAMA Floodlights c/w Lamps, Clamp & Safety Chain.	nos	1		
5	160W LED, 9- 60 Beam Angle Range, 112mm dia. lens High performance PRISM CONVEX Spotlight c/w lamp,	nos	4		
6	160W LED PAR CAN Spotlight c/w PAR 56 Lamp, Clamp and Safety Chain.	nos	2		
7	High Quality Colour Filters.	nos	16		
8	12m motorized lighting barrel c/w suspension, brackets, supports, 15A S/S/O & mounting accessories	nos	1		
9	Testing and Commissioning of the entire system.	Lot	1		
TOTAL B/F TO SUMMARY OF M & E PRICES					

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

BILL E 7 - INFRA & MISCLANENOUS

ITEM	DESCRIPTION	UNIT	QTY	RATE (RM)	AMOUNT (RM)
	<i>To supply, deliver, install, test and commission the following Infra & Misclaninous as specified in the drawings and specifications.</i>				
1	TNB Compact Sub.				
	a) TNB Compact Sub concrete plinth (c/e AMI Pole	L.S			
	b) 4 way 150mm dia HDPE PN10.	m	20		
	c) 10 way 150mm dia HDPE PN10.	m	20		
	d) Compound finishing & kerb.	L.S			
	e) Fixed Concrete Bollard	L.S			
	f) Compacted sand for manhole	L.S			
	f) Signage	L.S			
2	TNB Metering Panel concrete plinth	L.S			
3	Cable Duct from Compact Sub & Metering Panel to MSB.				
	a) Manhole	NOS	3		
	b) 2 way 200mm dia HDPE PN10	m	70		
	C) 4 way 200mm dia HDPE PN10	m	40		
4	Earth Chamber c/w test clamp, rod , coupling, spike, driving stud and c/w exothermic weld and rod. Chambe & rod to add necessarily to achieve authorities requirement for :				
	a) New TNB Compact Sub.	L.S			
	b) Existing System,.	L.S			
5	Rubber Mat and Switchroom accessories as per Authorities requirement.	L.S			
6	Testing and Commissioning With Tnb				
TOTAL B/F TO SUMMARY OF M & E PRICES					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p>The following Provisional Sum are to be include in this contract and to be used in whole or in part as directed by the Superintending Officer or to be deducted if not required</p> <p><u>External And Internal Signages</u></p> <p>A Provide the Provisional Sum of Ringgit Malaysia: Five Thousand Only (RM5,000.00) for External And Internal Signages</p> <p><u>Contribution To Utility Authority</u></p> <p>B Provide the Provisional Sum of Ringgit Malaysia: One Hundred Twenty Four Thousand Only (RM124,000.00) for Contribution To Utility Authority</p> <p><u>CCTV Time Lapse Monitoring</u></p> <p>C Provide the Provisional Sum of Ringgit Malaysia: Thirty Five Thousand Only (RM35,000.00) for CCTV Time Lapse Monitoring</p>	Sum	-	-	5,000.00
		Sum	-	-	124,000.00
		Sum	-	-	35,000.00
	BILL NO. 4 - PROVISIONAL SUM CARRIED TO SUMMARY :				164,000.00

SCHEDULE OF DAYWORKS RATE

SCHEDULE OF DAY WORKS RATE

ITEM	DESCRIPTION	UNIT	RATE (RM)
	<p>NOTE :</p> <p>Where extra works cannot properly be measured or valued in accordance with the Conditions of Contract, the Contractor shall be paid in accordance with day work rates. However, the Architect has the final decision whether the items claimed on day work will be paid on day work basis.</p> <p>No work shall be carried out Day work basis except when ordered in writing by the Architect. The Contractor will give notice to the Architect the commencement and completion of any work which the Contractor considers falls within the definition of Day work.</p> <p>Day works rates shall be defined as the actual prime cost to the Contractor for the work plus fifteen percent including transport, use of all ordinary plant, tools, scaffolding, supervision, profit, overheads and all other on-costs etc.</p> <p>A 'Day' is considered to be a normal working day of 8 hours. Fractions of a day will be paid for 'pro-rata'</p> <p>The Contractor shall produce for verification to the Engineer vouchers, endorsed by the Employer's site representative, specifying the time and materials employed on the work claiming payment. If required, the Contractor shall also produce his receipt bills and wages books in support of his accounts</p> <p>However, such endorsement will not bind the Architect to value the work as Day work.</p> <p>Time sheets and materials vouchers must be submitted to the Employer's site representative for endorsement within one week of the execution of the said works. Claims accompanied by said time sheets and vouchers may be rejected by the Architect at his discretion.</p>		

SCHEDULE OF DAY WORKS RATE

ITEM	DESCRIPTION	UNIT	RATE (RM)
	<u>LABOUR</u>		
1.	Foreman	Per Day	
2.	Kepala	Per Day	
3.	General Labourer (Male)	Per Day	
4.	General Labourer (Female)	Per Day	
5.	Concretor	Per Day	
6.	Steel bar bender and fixer	Per Day	
7.	Bricklayer	Per Day	
8.	Drain layer	Per Day	
9.	Plasterer	Per Day	
10.	Carpenter and Joiner	Per Day	
11.	Plumber	Per Day	
12.	Painter	Per Day	
13.	Fitter	Per Day	
14.	Welder	Per Day	
15.	Crane Drivers	Per Day	
16.	Pneumatic Tool Operator	Per Day	
17.	Surveyor	Per Day	
18.	Chainman	Per Day	

SCHEDULE OF DAY WORKS RATE

ITEM	DESCRIPTION	UNIT	RATE (RM)
	<u>PLANT</u>		
1.	Backhoe Excavator (1/2 Y.C. capacity)	Per Day	
2.	Concrete Truck Mixer (5 m3)	Per Day	
3.	Concrete Mixer 10/7T (0.35 m3/hr)	Per Day	
4.	Grader Cat 112F or equivalent	Per Day	
5.	Bulldozer Cat D7F or equivalent	Per Day	
6.	Bulldozer Cat D6F or equivalent	Per Day	
7.	Vibrator, concrete immersion-type light	Per Day	
8.	Vibrator, concrete immersion-type heavy	Per Day	
9.	Tipping Truck 8-10 tonne payload	Per Day	
10.	Dump Truck 8-10 tonne payload	Per Day	
11.	Dump Truck 10-12 tonne payload	Per Day	
12.	Flat Bed Truck 1.5 tonne payload	Per Day	
13.	Flat Bed Truck 3.0 tonne payload	Per Day	
14.	Flat Bed Truck 7.1 tonne payload	Per Day	
15.	Front End Wheeled Loader 1.1 m3	Per Day	
16.	Front End Wheeled Loader 2.3 m3	Per Day	
17.	Front End Wheeled Loader 1.1 m3 with backhoe attachment	Per Day	
18.	Steel Wheeled Roller 5-7 tonne	Per Day	
19.	Steel Wheeled Roller 10-12 tonne	Per Day	
20.	Self Propelled Vibratory Roller 12 tonne compaction force	Per Day	
21.	Drawn Vibratory Roller 7-14.2 tonne	Per Day	
22.	Pneumatic tyred roller 7-14.2 tonne	Per Day	
23.	Portable Air Compressor 10.5 m3	Per Day	
24.	Portable Air Compressor 17 m3	Per Day	
25.	Water Pump 50mm including piping	Per Day	
26.	Water Pump 100mm including piping	Per Day	
27.	Water Pump 150mm including piping	Per Day	
28.	Mobile crane 5 tonne	Per Day	
29.	Portable Arc Welder	Per Day	
30.	Pneumatic Jack Hammer	Per Day	
31.	Portable Compactor	Per Day	
32.	Oxy-Acetylene	Per Day	
33.	Electric Impact Drill of 1/2" - 1 1/2" Diameter	Per Day	
34.	Generator 50kVA Capacity	Per Day	
35.	Rock Drills 4 Inch air tower crawler rig	Per Day	

SCHEDULE OF LABOUR EQUIPMENT

Particulars of the employment of labour equipment that the Contractor anticipates using in this project.

Equipment Required		Rate	Labour Force	
Description	No.		Description	No.
1)		RM	1)	
2)		RM	2)	
3)		RM	3)	
4)		RM	4)	
5)		RM	5)	
6)		RM	6)	
7)		RM	7)	
8)		RM	8)	
19)		RM	19)	
10)		RM	10)	
11)		RM	11)	
12)		RM	12)	
13)		RM	13)	
14)		RM	14)	

* Where not shown in the Day works Schedule, the Contractor is to submit the rate per hour for the particular it of equipment anticipated to be used.

PRICES OF BASIC MATERIALS

The Contractor shall insert the prices ex-site of the following basic materials which shall be used as a basis for derivation of new rates for Variation as per Clause 11 of the Conditions of Contracts and for Interim Valuations.

1.	Cement	.....	per 50kg. Bag
2.	Walcrete	.....	per 50kg. Bag
3.	Sand	.....	per metre cube
4.	Coarse Aggregate	.....	per metre cube
5.	Mild steel bar reinforcement	.....	per metric tonne
6.	High tensile bar reinforcement	.....	per metric tonne
7.	Shuttering boards	.....	per metric tonne
8.	Structural timber	.....	per metric tonne
9.	Structural steel work	.....	per metric tonne
10.	Paint	.....	per litre
11.	Common brick	.....	per 1,000
12.	Glass	.....	per metre square
13.	Roofing materials	.....	per metre square
14.	Ceiling materials	.....	per metre square
15.	Floor and wall tiles	.....	per metre square

**MEASUREMENT APPLICATION AND
PRICING FACTORS**

MEASUREMENT AMPLICATION AND PRICING FACTORS

1.0 PREAMBLES TO ALL TRADES

1.1 The requirement of all items contained in this section are to be taken into account when pricing these Bills of Quantities.

1.2 The term 'approved' shall mean approved by the Superintending Officer.

Abbreviations

1.3 Throughout these Bills of Quantities the following abbreviations have been used :

(i) General

- | | | | |
|-----|-----------|---|--|
| (a) | M.S. | - | The latest standard for a particular building material or component issued at Standards and Industrial Research Institute of Malaysia (SIRIM). |
| (b) | B.S. | - | The latest standard for a particular building material or component issued at the British Standards Institution. |
| (c) | CP (B.S.) | - | The latest British Code of Practice issued by the Council of Codes of Practice the British Standard Institution. |
| (d) | CP (CE) | - | The latest Civil Engineering Code of Practice, issued by the Institution of Civil Engineers, United Kingdom. |
| (e) | Gauge | - | Imperial standard wire gauge. |
| (f) | S.W.G | - | Ditto |
| (g) | NO | - | Number |
| (h) | PRS | - | Pairs |
| (i) | S.O. | - | Superintending Officer |
| (j) | RHS | - | Rectangular Hollow Section |
| (k) | UPVC | - | Unplasticised Polyvinyl Chloride |
| (l) | W.C. | - | Water Closet |

MEASUREMENT AMPLICATION AND PRICING FACTORS

1.0 PREAMBLES TO ALL TRADES (Cont'd)

Abbreviations (Cont'd)

1.3 Throughout these Bills of Quantities the following abbreviations have been used : (Cont'd)

(ii) Metric Units

(a)	MC or M3	-	Metre cube
(b)	MS or M2	-	Metre superficial
(c)	MR or M	-	Metre lineal
(d)	CM	-	Centimetre
(e)	MM	-	Milimetre
(f)	KG	-	Kilogram
(g)	KN	-	Kilonewton

(iii) Imperial Units

(a)	FC	-	Feet cube
(b)	FS	-	Feet superficial
(c)	FR	-	Feet lineal
(d)	YC	-	Yard cube
(e)	YS	-	Yard superficial
(f)	YR	-	Yard lineal
(g)	Ton	-	Imperial tonne
(h)	LBS	-	Pound
(i)	OZ	-	Ounce

MEASUREMENT AMPLICATION AND PRICING FACTORS

1.0 PREAMBLE TO ALL TRADES (CONT'D)

Construction Plant, Equipment, Vehicle and Machinery

- 1.4 The costs of providing constructional plant, equipment, vehicles and machinery for use directly in connection with the construction and completion of the Works are to be priced in the Preliminary Section of these Bills of Quantities. However, the costs of operating the same are to be included in the prices and rates of the relevant items in these Bills of Quantities.

Curved or Circular Work

- 1.5 Work described in these Bills of Quantities as curved or circular shall be deemed to include all junctions between straight and curved or circular work.

New and Old Work

- 1.6 Unless otherwise specified the cost of making good at junction between new and old works shall be included in the prices and rates of the new works.

Items/Works Measured as Lump Sum Items

- 1.7 Prices and rates for items/works measured as Lump Sum items shall be deemed to cover for providing everything necessary for the proper execution and completion of the items/works according to the true intent and meaning of the Contract Documents taken together whether the same may not be particularly shown or described provided the same is reasonable inferred to therein.

Pricing of Provisional Bills of Quantities

- 1.8 All items in these Provisional Bills of Quantities shall be priced by the Contractor. Should the Contractor fail to price any item, the value thereof shall be deemed to be included in the prices and rates of other items therein.
- 1.9 All quantities in these Provisional Bills of Quantities are subject to final measurement on site as per actual work done.

MEASUREMENT AMPLICATION AND PRICING FACTORS

2.0 PILING WORKS

General

Prices and rates for piling shall be deemed to include for works in whatever nature of site, water levels and soil strata through which the pile are to be driven or bored and any excavation required for working space.

Supplying of Precast Concrete/Timber Piles

- 2.1 Supplying of initial and extension piles are billed separately in metre lineal in these Bills of Quantities
- 2.2 The prices for supply of initial or extension piles shall be deemed to cover for providing everything necessary as shown in the drawings and/or specified in these Bills of Quantities.
- 2.3 The pay-length for supply of piles shall be the total length supplied, transported and pitched in position ready for driving. Any piles brought on site but not pitched in position and driven shall not be paid for and shall be removed from site at the Contractor's expense.

Handling, Transporting, Pitching and Driving of Precast Concrete/Timber Piles

- 2.4 The prices for handling, transporting, pitching and driving shall be deemed to include for:
 - (i) Moving of pile frame about the site
 - (ii) Extra excavation, earth filling and ramming entailed in the movement/positioning of the pile frames
 - (iii) Handling, transporting, pitching and driving on initial or extension piles irrespective of lengths.
 - (iv) Shaping of one end of initial pile (if required).
 - (v) Preparing pile head and fitting the same with protective strap/helmet.
 - (vi) Redriving of heaved piles
 - (vii) Marking the piles
 - (viii) Keeping and monitoring logs
 - 2.5 Handling, transporting and pitching of initial piles and extension piles are measured enumerated.
 - 2.6 For the purpose of payment for driving of piles, the payable lengths shall be deemed to be the lengths measured between the point of maximum penetration of the toe of the pile and the cut-off level.
- Pay length of Micro piles**
- 2.7 Paylength for boring shall be measured and paid for in linear metres measured from the tip of micropile toe to the existing ground level and/or the formation level
 - 2.8 Paylength for steel reinforcement pipe shall be measured and paid for in linear metres from the tip of steel reinforcement pipe toe to the cut-off level
 - 2.9 Paylength for permanent steel casing shall be measured and paid for in linear metres from the tip of steel reinforcement pipe toe to the cut-off level
 - 2.10 Payment for cement grout shall be measured and paid for in linear meters measured from the tip of steel reinforcement pipe toe to the cut-off level
 - 2.11 Rates for micropiles shall be deemed to include for working at whatever depth
 - 2.12 The rates for preliminary and subsequent load tests on micropiles shall be deemed in include for mobilisation, etc, to install the piles ahead of the overall piling works, construction and subsequent demolition of all necessary pile caps built in rapid hardening cement, cutting off excess length of pile, preparing pile head for testing and all necessary making good on completion

MEASUREMENT AMPLICATION AND PRICING FACTORS

3.0 EXCAVATIONS AND EARTHWORKS

- 3.1 Unless otherwise stated, depths of excavation are measured from the general formation levels to the bottom of the excavations.
- 3.2 The depths of trench excavation are given in 1.5 M stages, measured from general formation levels to the bottom of excavation.
- 3.3 Quantities of earth fill are measured nett (i.e excluding volumes occupied by permanent parts of the Works to be executed under the Contract) and up to the extend of excavation given in the Standard Method of Measurement of Building Work.
- 3.4 Prices for excavation shall be deemed to include for :
- (a) Manual and/or mechanical excavation, in whatever type of material met with excluding rock and similar hard substances defined in the Specification, whether met with on the surface or in the excavations.
 - (b) Getting the material out of the excavations and spreading and levelling of surplus (the balance after backfilling into the excavations) excavated material around the excavation as directed by the S.O.).
 - (c) Levelling bottoms of the excavations or grading the bottom of the excavations to falls or cambers, and compacting the same.
 - (d) Trimming sides of the excavations to form vertical, battering or sloping faces.
 - (e) Upholding and maintaining sides of the excavations by whatever means necessary including the use of bentonite and any special or sheet piling etc. as may be necessary but which do not form a permanent part of the work to be executed, excluding any planking and strutting to be left in or any sheet piling etc. which form a permanent part of the work to be executed.
 - (f) Removing of loose boulders of size not exceeding 0.17 MC if in general excavation or of size not exceeding 0.08 MC if in excavation for trenches and foundation pits.
 - (g) Allowance for necessary working space as required by the Contractor in the construction of the permanent of the work.
 - (h) Keeping the excavations free from storm, percolating or spring water by pumping or whatever other means necessary.
 - (i) Backfilling of selected excavated materials into the excavations and compacting the same by methods and in the manners as specified in the Specification. Disposal of surplus excavated material away from the excavation shall be measured separately).

MEASUREMENT AMPLICATION AND PRICING FACTORS

3. EXCAVATIONS AND EARTH WORKS (CONT'D)

- 3.5 Prices for trench excavations shall include for surface and basement trenches. No distinction shall be made between surface and basement trenches.
- 3.6 Prices for removal and disposal of excavated materials (the quantities measured nett as excavation) within the site shall include for multiple handling and transporting the materials about the site as may be necessary prior to depositing and levelling of the same.
- 3.7 Prices for removal and disposal of excavated materials (the quantities measured nett as excavation) away from the site shall include for multiple handling and transporting of the materials from the site to the Contractor's own dump.
- 3.8 Prices for earth, sand, quarry dust and the like material in filling, beds and blinding etc. shall include for levelling surfaces of the same or grading surfaces of the same to falls or cambers, trimming sides of the same to form vertical, battering or sloping surfaces, and any temporary retaining boards as may be required.
- 3.9 Prices for hardcore, crusher run and the like material in filling and beds etc. shall include for handpacking the same to form vertical, battering or sloping surfaces and any temporary retaining boards as may be required.
- 3.10 Prices for hardcore, crusher run and the like material in fillings and beds etc. to receive concrete or paving shall include for blinding the same with sand or quarry dust, and levelling surfaces of the same or grading surfaces of the same to falls and cambers.
- 3.11 Prices for structural damp proofing membranes, shall be held to include for all weltd joints, tapes, etc. in accordance with the manufacturer's printed instructions, for all cutting to profile and around piles, in whichever size are required.
- 3.12 Prices for earth fill shall be deemed to include for :
- (i) Compaction factor of the fill material and settlement or displacement of fill over soft areas.
 - (ii) Upholding and maintaining sides of the filling by whatever means necessary including the use of bentonite and any special shoring or sheet piling etc. as may be necessary but which do not form a permanent part of the Work to be executed, but excluding any planking and strutting to be left in or any sheet piling etc. which form a permanent part of the Work to be executed.

MEASUREMENT AMPLICATION AND PRICING FACTORS

4.0 CONCRETE WORK

Concrete

4.1 The rates for concrete shall be deemed to include for :

- (1) All hoisting and placing in required positions
- (2) Working between and around reinforcement
- (3) Tamping and/or vibrating to give thorough compaction
- (4) Forming or cutting :
 - (a) Grooves
 - (b) Chases
 - (c) Mortices
 - (d) Holes and other sundry like items, including all making good and the provision of all additional work to kickers, etc.

Reinforcement

4.2 The prices for reinforcement shall be deemed to include for :

- (a) Cutting to lengths
- (b) Hooked ends
- (c) Bends
- (d) Placing in position prior to casting
- (e) Tying, tying wire, spacer bars and distance blocks
- (f) Allowance for laps and framing notches around obstructions in case of fabric reinforcement.

Note : The weight of steel reinforcement given in the Bills excludes both the weight of tying wire and any allowance for rolling margin and rates are to include for these items.

MEASUREMENT AMPLICATION AND PRICING FACTORS

4.0 CONCRETE WORK (CONT'D)

Formwork

4.3 The prices for formwork shall be deemed to include for :

- (a) Erection, raking and circular cutting
- (b) Splayed edges
- (c) Notchings
- (d) Allowances for overlaps and passings at angles
- (e) Battens
- (f) Filleting to form chamfered edges not exceeding 50mm wide
- (g) Strutting
- (h) Bolting and wedging
- (i) Easing, striking and removal

Vertical Faces above 3.50 metres

4.4 The prices for formwork to vertical surfaces i.e columns, wall etc. are to include for strutting any height when required

Left-in Formwork

4.5 'Left-in' formwork as specified in these Bills of Quantities shall mean formwork which will form a permanent part of the Works

Note : The rate for each item of concrete and formwork shall be held to include for :

- (a) All construction and daywork joints, other than those specifically shown on the Drawings, which are measured in the Bills of Quantities
- (b) All shrinkage or movement joints or closure strips, whether shown on the Drawings or instructed by the Architect

Precast Concrete

4.6 All work in precast concrete shall be deemed to be in concrete (1:2:4 - 19mm aggregate) as described later in these Bills. Rates shall include for all casting, formwork, handling, hoisting, placing in position and setting, bedding, jointing and pointing in composition mortar unless otherwise particularly described.

MEASUREMENT AMPLICATION AND PRICING FACTORS

5.0 BRICKWORK

5.1 Prices for brickwork shall be deemed to include for :

- (a) All rough and fair cutting
- (b) Oversailing and receding courses
- (c) Rough relieving and discharging arches
- (d) Wedging and pinning
- (e) Raking out joints for and pointing flashings
- (f) Bedding plates
- (g) Bedding and pointing frames
- (h) Parging and coring flues
- (i) Plumbing angles
- (j) Labour eaves filling
- (k) Forming square and rebated reveals, cut squints or birdsmouths and notches
- (l) Cutting or forming chases, holes and mortices
- (m) Cutting and pinning and/or building in
- (n) Making good
- (o) Sundry like items

MEASUREMENT AMPLICATION AND PRICING FACTORS

6.0 DRAINS

- 6.1 The items given under the various Trades of Excavation and Earth Works, Concrete Works, Brickworks, etc. which are deemed to be included in the prices and rates of drains, shall apply accordingly.
- 6.2 Excavation for drain trenches shall not be less than 300mm wider than the external diameter of the pipes and prices shall include for grading ground under pipes, carefully filling in earth to avoid damaging pipes and ramming, clearing away surplus material, keeping the excavations free from water and for all necessary planking and strutting.
- 6.3 Prices and rates for cast iron, vitrified clay and salt-glazed earthenware pipes shall be deemed to include short lengths, sockets, jointing, fixing and the like.

7.0 ROOFER AND RAINWATER GOODS

7.1 The rate for each item of 'Roofer and Rainwater Goods' shall be held to include for :

- (a) All rounded edges
- (b) Arrises
- (c) Working round and forming collars to pipes
- (d) Making connections to drains, etc
- (e) Narrow widths
- (f) Small quantities
- (g) All straight, raking or circular cutting
- (h) Subsequent waste
- (i) Temporary rules
- (j) Making good
- (k) Sundry like items of a like nature
- (l) Grading to roof outlets and the like

MEASUREMENT AMPLICATION AND PRICING FACTORS

8.0 CARPENTRY

- 8.1 The rate for each item of 'Carpenter' shall be held to include for all cutting, notching, boring, sinking, palleting, fitting, trimming, mitreing, halving, morticing, tenoning, dovetailing, scarfing and wedging and all ends, splayed edges, short lengths and temporary supports, rebating for plaster and other sundry items of a like nature, nails, spikes, pins and brads.

All work deemed to be sawn

- 8.2 All carpenter's work shall be deemed to be left with a sawn surface except where particularly described to be wrot and prices are to include for this.

Sizes

- 8.3 The sizes of sawn timber, except where otherwise specified, shall be within the margin of permissible variation stated hereunder :
- (i) For widths, depths or thicknesses not exceeding 75mm, within 3mm of the specified size
 - (ii) For widths, depths or thicknesses exceeding 75mm, within 6mm of the specified size

Plugging and fixing woodwork etc.

- 8.4 Where work is described as "plugged" it shall include for short fired fixings where approved or casting in or morticing for and inserting fibrous inserts or other approved fixing materials and fixing with suitable nails or screws to any wall or concrete surface.

MEASUREMENT AMPLICATION AND PRICING FACTORS

9.0 JOINERY

Joinery Timber

9.1 Prices for all joinery timber shall be deemed to include for :

- (a) Pressure treating as later described
- (b) Wrought (wrot) finish
- (c) All cutting, notching, holes, housed ends, mitres, ends, shaped ends, angles, junctions, heading joints, short lengths and the like
- (d) Labour to stops or cross grains, nails, spikes, pins and brads and screws
- (e) Planting on with nails or brads etc. punched in
- (f) Any other items of a like nature.

9.2 Concrete platforms, floor and wall finishes, and sanitary fittings related with joinery fittings are measured separately.

9.3 Subject to paragraph 9.2 above, prices for joinery fittings which are measured in numbers are deemed to include for providing everything necessary for the proper execution and completion of the items irrespective of whether all the details are explicitly shown in the drawings and/or specified in these Bills of Quantities.

Suspended Ceiling

9.4 Suspended ceiling are measured in meter superficial. Rates per metre superficial of suspended ceilings are deemed to include for providing everything necessary for the proper execution and completion of the items irrespective of whether all the details are explicitly shown in the drawings and or/specified in these Bills of Quantities.

9.5 Prices and rates for suspended ceiling are also deemed to include for :

- (i) Narrow widths and small quantities
- (ii) Temporary rules
- (iii) Mitres, edge trims and fair cutting to ceiling boards and tiles at margins and borders
- (iv) All making good and any sundry items of like nature

MEASUREMENT AMPLICATION AND PRICING FACTORS

9.0 JOINERY (CONT'D)

Ironmongery

- 9.6 The rates for ironmongery are to include for providing and fixing with screws of the same finish as fitting and for all cutting, sinking, boring and morticing as required, oiling, easing and adjusting all moving parts, taking off and refixing after painting where necessary and leaving in perfect working order (including handing the keys properly labelled to the Superintending Officer's satisfaction on completion).
- 9.7 The rate for each item of 'Ironmonger' whether of 'supply and fix' or 'fix only' shall be held to include for taking delivery, unloading, carrying in, sorting, storing, stripping or removing protective wrapping or coverings, checking, assembling, returning packages, handling, hoisting, placing or lowering and fixing in position including fitting, cutting, sinking, boring and morticing and supply of matching screws and adjusting, refixing, and for cutting away and making good, levelling, packing, grouting, puttying and touching up, all in accordance with the generally accepted requirements of the specific item, including handing the keys properly labelled to the Superintending Officer's satisfaction, protecting and safeguarding the work until the issue of the Certificate of Practical Completion.

MEASUREMENT AMPLICATION AND PRICING FACTORS

10.0 STEEL AND IRONWORK

10.1 No allowance has been made in the weight of steel for rolling margin.

10.2 Prices and rates for steel and ironwork shall be deemed to include for :

- (i) Allowance for rolling margin
- (ii) All labour in cutting to length and drilling holes
- (iii) Rivets if necessary
- (iv) Additional costs involved in using members which are larger than the manufacturer's standard stock size required
- (v) Working with members of various sizes and lengths.

Cribmesh

10.3 Cribmesh shall be of "Bulldog" wire mesh or other equal and approved design C 8 gauge 1 3/4" (45mm) mesh and fixed in accordance with manufacturer's instructions.

Aluminium Works

10.4 The rate for each item of doors, windows, etc shall be held to include for eccentric positioning of hinges, etc.

10.5 The rate for each item of doors, windows, etc shall be held to include for cutting, notching, boring, fitting, trimming, mitreing, dovetailing, mechanical cleats or electrical welding etc. and all ends, splayed edges, short lengths and temporary supports, rebating for plaster and other items of a like nature.

10.6 The rate for each item of doors, windows, etc shall be held to include for all fixtures, screws, nuts, bolts, rivets and other attachments and the application of anti-corrosive and anti-bi-metal chemical reaction paints where required and pressure grouting with water proof cement and sand filling and caulking and pointing with approved tropical mastic where required.

MEASUREMENT AMPLICATION AND PRICING FACTORS

11.0 PAVIOR AND TILER

Plastering

11.1 The rates for plastering shall be deemed to include for :

- (a) Narrow widths and small quantities
- (b) Temporary rules
- (c) Joints between different types of plastering
- (d) Internal angles, arrises and quirks
- (e) Rounded coves and external angles not exceeding 25mm radius
- (f) Mitres, stop, etc., on all the foregoing and to cornices, mouldings, enrichments, coves, grooves, skirtings, gutters and strings.
- (g) Raking out joints or hacking any surface to form key.
- (h) All making good and any sundry items of a like nature.

Pavior

11.2 The rate of each item of paving and screeds shall be held to include preparation of base and providing cement slurry or bonding agent.

11.3 The rate for each item of 'Pavior' shall be held to include for all :

- (a) Rounded edges, arrises
- (b) Working and dishing round pipes
- (c) All straight, raking or circular cutting
- (d) Subsequent waste
- (e) Temporary rules
- (f) Making good
- (g) Sundry like items of a like nature
- (h) Grading to floor outlets and the like

11.4 The rate for each item of skirtings, risers, angles, openings, moulded or rounded edges, channels and the like, shall be held to include for all short lengths, formed, cut and purpose made angles, junctions, ends and making good, and any other sundry items of a like nature.

MEASUREMENT AMPLICATION AND PRICING FACTORS

12.0 PLUMBER

General

- 12.1 Prices and rates for pipeworks shall be deemed to include for short lengths, joints in the running length including fixing and the like, all perforations, chases etc. in brickwork, blockwork, concrete etc, and for all making good.
- 12.2 All tubings have been measured the nett lengths as fixed, measured over bends, junction, etc.
- 12.3 Prices for fittings to all tubings described as 'extra for' should be the cost of the fittings extra only over the length of tubings.

Galvanised Mild Steel or UnPlasticised Polyvinyl Chloride (UPVC) Tubing

- 12.4 The prices for mild steel or UPVC tubings shall be deemed to include for :

- (a) All short running lengths
- (b) Sockets
- (c) Connectors
- (d) Backnuts
- (e) Elbows and bends
- (f) Fire-bends
- (g) Tees
- (h) Diminishing pieces
- (i) Plugs
- (j) Other items of a like nature

Copper Tubing

- 12.5 Prices for copper tubings shall include for :

- (a) All short running lengths
- (b) Made bends
- (c) Running joints
- (d) Other items of a like nature

Pipe clips

- 12.6 Pipe clips for fixing water pipes are to be galvanised and to B.S. 1494 and the prices of all pipework are to include pipe clips at 900mm centres screw fixed including plugging where required and all making good.

MEASUREMENT AMPLICATION AND PRICING FACTORS

12.0 PLUMBER (CONT'D)

Sanitary Fittings

- 12.7 The rate for each item of unplasticised PVC and mild steel pipes below 2" diameter shall be held to include for short lengths, sockets, connectors, back nuts, bends, fire bends, tees, diminishing pieces and plugs, fixings, jointing and the like.
- 12.8 The rate for each item of mild steel pipes and unplasticised PVC pipes of 2" diameter and above, cast iron pipes and saltglazed stoneware pipes shall be held to include for short lengths, running joints, fixing, jointing and the like
- 12.9 The rate for each item of pipework shall be held to include for PVC inserts to avoid sound transmission, sleeves to wall or floors, collar saddle, core holes, connection to drains and painting directional flow and all other work necessary to complete the pipeline installation.
- 12.10 The rate for each item of equipment shall be held to include chromium plated copper hook-up tubings.
- 12.11 The rate for each item of control valves shall be held to include for flow control regular.

13.0 GLAZIER

- 13.1 Prices and rates for glass shall be deemed to include for all necessary additional costs involved in using sheets which are larger than the manufacturer's standard stock sizes if required.

Clips

- 13.2 The rate for each item of glass shall be held to include for cleaning and polishing both sides on completion, and for replacing all cracked, scratched, stained and broken glass.
- 13.3 The rate for each item of glass shall be held to include all other incidental materials such as glazing compound, shims, glazing clips, securing devices, felt, etc. not described but required to complete a satisfactory and approved installation.

14.0 PAINTER

- 14.1 Prices and rates for all painting works shall be deemed to include for preparation of surfaces for painting as described, painting in any colour or tint (including mixing of paints to derive any tint or colour required) and all necessary scaffolding and temporary platform.
- 14.2 Prices and rates for painting on steel structures shall be deemed to include for painting on brackets, cleats, rivets, bolts, etc.
- 14.3 Prices and rates for painting on pipes shall be deemed to include for painting on fittings, clips, brackets, etc.

MEASUREMENT AMPLICATION AND PRICING FACTORS

15.0 DEFINITION OF INVERT DEPTH

- 15.1 Invert depth for surface water drains, sumps and manholes shall mean the depth from the top of side walls of surface water drains or sumps or top of cover slab of manholes to the lowest point of the internal surface (invert) of surface water drains or sumps or manholes as the case may be, when completed.
- 15.2 Invert depth for culverts and monsoon drains shall mean the depth from formation levels to the lowest point of the internal surface (invert) of culverts or monsoon drains as the case may be, when completed.

DOKUMEN MEJA TAWARAN

**MAKLUMAT AM LATAR BELAKANG
KONTRAKTOR**

BORANG A – SURAT PENGAKUAN KEBENARAN MAKLUMAT DAN KESAHIHAN DOKUMEN YANG DIKEMUKAKAN OLEH PETENDER

Nama Petender:

Alamat:

.....

.....

Kepada,

Bahagian Pengurusan Kontrak & Ukur Bahan

Jabatan Khidmat Pengurusan

Tingkat 4, Menara MPKj

Jalan Cempaka Putih Off Jalan Semenyih

43000 Kajang, Selangor Darul Ehsan

Tuan,

MAKLUMAT LATAR BELAKANG, KEWANGAN DAN TEKNIKAL PETENDER

1. Kami telah membaca dengan teliti semua arahan-arahan yang terkandung dalam Arahan Kepada Petender termasuk arahan yang menghendakkan kami mengemukakan maklumat- maklumat dan dokumen-dokumen mengenai perkara di atas bersama-sama dokumen tender kami semasa mengemukakan Tender ini untuk membolehkan **MPKj** menilai keupayaan kami untuk melaksanakan kerja yang ditender semasa Penilaian Tender.
2. Kami faham dan mengambil maklum bahawa Penilaian Tender ini akan mengambilkira dan mementingkan keupayaan kami melaksanakan kerja yang ditender. Justeru itu Tender kami akan hanya dipertimbang untuk diperakukan kepada Lembaga Tender untuk disetuju terima sekiranya kami didapati berkeupayaan untuk melaksanakan projek yang ditender, mengikut kaedah penilaian **MPKj** yang ditetapkan berasaskan maklumat-maklumat dan dokumen-dokumen yang kami kemukakan.
3. Kami juga mengambil maklum bahawa kami dikehendaki mengemukakan semua maklumat dan dokumen yang diminta bersama-sama Tender kami sebelum Tender ditutup dan maklumat atau dokumen yang dikemukakan kemudian daripada itu tidak akan diterima untuk diambilkira dalam penilaian keupayaan kami.
4. Kami mengaku bahawa semua maklumat dan data yang kami berikan bersama-sama ini di Borang B, C, CA, CA1, D, DA, E, F, G, GA dan dokumen-dokumen yang kami sertakan bersamanya setahu kami adalah semuanya benar dan sah pada semua segi dan kami telah mengambil maklum dan sedar akan tindakan yang boleh diambil oleh MPKj terhadap kami dan/atau Tender kami, sekiranya mana-mana maklumat, data dan dokumen yang kami berikan itu didapati tidak benar dan palsu.
5. Kami juga mengambil maklum dan sedar bahawa Tender kami akan ditolak (*disqualified*) dan tidak akan dipertimbangkan sekiranya maklumat-maklumat yang kami berikan tidak mencukupi atau sekiranya kami gagal untuk memberikan bersama-sama ini mana-mana maklumat dan/atau menyertakan mana-mana dokumen penting yang sangat diperlukan untuk membolehkan **MPKj** menilai keupayaan kami, terutamanya dokumen-dokumen berhubung dengan kedudukan kewangan dan prestasi kerja semasa kami sebagaimana yang dinyatakan dalam Arahan Kepada Petender seperti berikut:
 - (1) Penyata Kewangan Syarikat
 - (2) Penyata Bulanan Bank
 - (3) Laporan Bank/Institusi Kewangan Mengenai Kemudahan Kredit
 - (4) Deposit Tetap (sekiranya ada)
 - (5) Laporan Prestasi Kerja Semasa

6. Kami dengan ini memberi kuasa kepada mana-mana pegawai **MPKj**, jurutera-jurutera projek, juruaudit, pegawai bank dan mana-mana pihak yang berkenaan untuk memberikan maklumat-maklumat yang dianggap perlu dan diminta oleh pihak **MPKj** untuk mengesahkan maklumat-maklumat yang kami berikan di perenggan 4 dan 5 atau untuk mendapatkan maklumat tambahan. Kami dengan ini juga memberi kebenaran kepada pihak **MPKj** untuk merujuk apa-apa maklumat yang kami kemukakan kepada mana-mana pihak termasuk Lembaga Hasil Dalam Negeri. Walau bagaimanapun kami tetap bertanggungjawab di atas maklumat-maklumat dan dokumen-dokumen yang kami berikan bersama-sama ini.
7. Kami juga dengan ini mengakui dan mengesahkan bahawa pihak kami tidak ada membuat sebarang pakatan atau apa-apa bentuk amalan sepadu dengan mana-mana petender lain bagi mempengaruhi kemunasabahan harga tender dan apa-apa tindakan yang boleh menjejaskan atau yang mempunyai kesan menghalang, menyekat atau mengganggu persaingan yang sihat bagi membolehkan tender kami atau petender lain di pertimbangkan. Kami akur pihak Jabatan boleh menolak tawaran kami sekiranya pihak Jabatan mengesyaki sebarang pakatan harga dan pihak kami juga boleh di ambil tindakan di bawah Akta Persaingan 2010 (Akta 712).
8. Kami maklum bahawa sekiranya pihak yang dihubungi tidak memberi pengesahan dalam tempoh yang ditetapkan akan menyebabkan tender kami tidak dipertimbangkan untuk disetuju terima.

Yang benar,

.....
(Tandatangan Petender)

Tarikh :

Nama Penuh :
No. Kad Pengenalan :
Atas Sifat :
yang diberikuasa dengan sepenuhnya untuk menandatangani
Tender ini Untuk Dan Bagi Pihak :

.....
(Meteri atau Cap Petender)

.....
(Tandatangan Saksi)

Tarikh :

Nama Penuh :
No. Kad Pengenalan :
Pekerjaan :
Alamat :
.....

BORANG B - MAKLUMAT AM DAN LATAR BELAKANG PETENDER

1. Nama:
2. Alamat:.....
.....
No. Telefon: No. Faks:
3. Pendaftaran dengan Pusat khidmat Kontraktor (PKK) (Sertakan Salinan Pendaftaran)
 - i) No. Pendaftaran:
 - ii) Tarikh Daftar: sah hingga
 - iii) Gred dan Kategori/Pengkhususan:
 - iv) Taraf (Bumiputera/Bukan Bumiputera):
 - v) Jika Bumiputera, tempoh sah taraf: Dari hingga
4. Pendaftaran dengan *Construction Industry Development (CIDB)* (Sertakan Salinan Pendaftaran)
 - i) No. Pendaftaran:
 - ii) Tarikh Daftar: sah hingga
 - iii) Gred dan Kategori/Pengkhususan:
 - iv) Taraf (Bumiputera/Bukan Bumiputera):
 - v) Jika Bumiputera, tempoh sah taraf: Dari hingga
5. Pendaftaran dengan Suruhanjaya Syarikat Malaysia (SSM) (Sertakan Salinan Pendaftaran)
 - i) No. Pendaftaran:
 - ii) Tarikh Daftar: sah hingga
 - iii) Gred dan Kategori/Pengkhususan:
 - iv) Taraf (Bumiputera/Bukan Bumiputera):
 - v) Jika Bumiputera, tempoh sah taraf: Dari hingga

6. Pendaftaran Cukai Barangan dan Perkhidmatan (CBP) dengan Jabatan Kastam Diraja Malaysia (jika berdaftar dan sertakan salinan pendaftaran)

i) No. Pendaftaran:

ii) Tarikh Kuat Kuasa:

7. Bagi Syarikat Sdn. Bhd. nyatakan:

i) Modal dibenarkan : RM

ii) Modal dibayar : RM

8. Perniagaan Utama lain, jika ada

i) sejak

ii) sejak

9. Ahli-Ahli Syarikat

i) Ahli-ahli Lembaga Pengarah

Nama	Jawatan	Saham Modal Dipegang

ii) Ahli-ahli Lembaga Pengarah (samb.)

Nama	Jawatan	Saham Modal Dipegang

iii) Ahli-ahli Pengurusan

Nama	Jawatan	Kelulusan Akademik/Iktisas

BORANG C – DATA-DATA KEWANGAN (Diisikan oleh Kontraktor)

- A. Ringkasan harta dan liabiliti seperti yang ditunjukkan dalam Lembaran Imbangan (Balance Sheet)* yang diaudit bagi tahun kewangan terakhir.

Asset * (A)	Liabiliti * (B)	Nilai Kewangan (Worth) (A - B)
Semasa : RM	Semasa : RM	Modal : RM
Tetap : RM	Tetap : RM	Pusingan : RM
Jumlah : RM	Jumlah : RM	Modal Tetap : RM
		'Nett Worth' : RM

Sertakan salinan Penyata Kewangan Syarikat yang diaudit dan disahkan dengan salinan diakui sah (*certified true copy*) oleh Juruaudit Bertauliah bagi tiga (3) tahun kewangan terakhir secara berturut-turut sebelum tahun tutup tender atau sekiranya tiada, bagi tiga (3) tahun kewangan terakhir secara berturut-turut setahun sebelum tahun tutup tender. **Salinan Penyata Kewangan Syarikat yang tidak disahkan oleh Juruaudit Bertauliah tidak akan diambilkira.**

- B. Penyata Bulanan Akaun Bank **

Bil.	Nama dan Alamat Bank (di mana akaun di buka)	Nombor Akaun	Nama Pengawai Bank Yang Boleh Dihubungi Untuk Tujuan Pengesahan
Bank 1			
Bank 2			
Bank 3			

Sertakan salinan Penyata Bulanan Akaun Bank bagi tiga (3) bulan terakhir sebelum bulan tutup tender yang disahkan oleh pegawai yang diberi kuasa oleh bank berkenaan. **Salinan Penyata Bulanan Akaun Bank yang tidak disahkan oleh pegawai yang diberi kuasa oleh bank berkenaan tidak akan diambilkira.**

- C. Kemudahan Kredit (jika ada)+

Bil.	Nama dan Alamat Bank (di mana akaun di buka)	Nombor Akaun	Nama Pengawai Bank Yang Boleh Dihubungi Untuk Tujuan Pengesahan
Bank 1			
Bank 2			
Bank 3			

D. Deposit Tetap (jika berkenaan)++

Bil.	Nama dan Alamat Bank (di mana akaun di buka)	Nombor Akaun	Nama Pengawai Bank Yang Boleh Dihubungi Untuk Tujuan Pengesahan
Bank 1			
Bank 2			
Bank 3			

Sertakan salinan Penyata Deposit Tetap yang disahkan oleh pegawai yang diberi kuasa oleh bank berkenaan. **Salinan Penyata Deposit Tetap yang tidak disahkan oleh pegawai yang diberi kuasa oleh bank berkenaan tidak akan diambilkira.**

NOTA UMUM

Sekiranya terdapat lebih daripada tiga (3) bank/institusi kewangan, sertakan maklumat tersebut dalam lampiran tambahan.

BORANG CA - LAPORAN BANK/INSTITUSI KEWANGAN MENGENAI KEMUDAHAN KREDIT
(Diisi oleh Pihak Bank/Institusi Kewangan)

Borang ini hendaklah dilengkapkan oleh pihak Bank/Institusi Kewangan dan dikembalikan kepada Bahagian yang mengurus tender. Sekiranya laporan disediakan dalam bentuk lain, kandungan laporan tersebut wajib menepati maklumat yang dikehendaki seperti dalam Borang CA. Sekiranya tidak, laporan tersebut akan ditolak.

Kepada :

Bahagian Pengurusan Kontrak & Ukur Bahan

Jabatan Khidmat Pengurusan

Tingkat 4, Menara MPKj

Jalan Cempaka Putih Off Jalan Semenyih

43000 Kajang, Selangor Darul Ehsan

Nama Petender :

Projek:
.....
.....

Kemudahan Kredit sedia ada yang boleh digunakan untuk pelaksanaan projek.
(sekiranya petender mempunyai Kemudahan Kredit dengan Bank/Institusi Kewangan)

Bentuk Kemudahan Kredit	Nama Produk Kewangan (sekiranya ada)	Baki Yang Boleh Digunakan
(i) Overdraf		RM
(ii) Overdraf Bercagar		RM
(iii) Talian Kredit		RM
	Jumlah	RM

.....
Tandatangan Untuk Dan Bagi Pihak Bank/Institusi Kewangan)

Nama Pegawai:
Jawatan:
No. Tel Pejabat :
Tarikh:

Cap Bank/
Institusi Kewangan:

**BORANG CA1 – KEBENARAN UNTUK MENDAPATKAN MAKLUMAT KEWANGAN
(AKAUN BANK)**

Ruj :
Kami:
Tarikh:

.....
.....
.....
.....

Tuan,

Projek: **CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI
SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG,
DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN
KAJANG**

Perkara: **KEBENARAN UNTUK MENDAPATKAN MAKLUMAT KEWANGAN (AKAUN BANK)**

Adalah dengan segala hormatnya merujuk perkara di atas.

2. Saya _____ selaku Pengarah bagi Syarikat
_____ dengan ini
memberi kebenaran kepada MPKj untuk mendapatkan maklumat tentang kewangan Syarikat ini bagi tujuan
penilaian tender untuk projek di atas.

3. Sehubungan dengan itu, pihak tuan diminta untuk memberikan kerjasama dengan memberikan
maklumat berkaitan kewangan terkini Syarikat seandainya diminta.

Sekian, terima kasih.

Yang benar,

.....
()

.....
.....
.....

.....
Nama & Alamat Syarikat

BORANG D – REKOD PENGALAMAN KERJA
(SENARAI SEMUA KERJA YANG DISIAPKAN DALAM 5 TAHUN LEPAS)

BIL.	NAMA KONTRAK/PROJEK + SKOP KERJA	NILAI KONTRAK (RM)	NILAI PETENDER BERTANGGUNG- JAWAB *	TEMPOH KONTRAK (**)	TARIKH MILIK TAPAK	TARIKH SIAP PROJEK	KEMAJUAN KERJA +		NAMA DAN ALAMAT JURUTERA PROJEK	NAMA DAN ALAMAT MAJIKAN
							IKUT JADUAL (%)	SEBENAR DICAPAI (%)		

* Hanya perlu diisi sekiranya petender melaksanakan kerja Sebagai Ahli Syarikat Gabungan.

** Tempoh kontrak hendaklah termasuk Lanjutan Masa yang diluluskan.

+ PERINGATAN PENTING

Bagi setiap kerja semasa, sertakan (WAJIB) Laporan Penyelia Projek atas format seperti Borang DA dalam satu sampul berlakri. Tender yang tidak disertakan dengan Laporan ini bagi setiap kerja semasa yang disenaraikan, tidak diambilkira dalam Penilaian Keupayaan Petender yang berkenaan

BORANG E – KAKITANGAN TEKNIKAL

(Butir-butir Kakitangan Teknikal yang ada dalam penggajian Petender masa kini)

Bil.	* Nama dan No. K/P	Umur	Kelulusan Professional / Pendidikan **	Tahun Kelulusan	Tarikh Diambil Bekerja	Jawatan yang Disandang / tugas-tugas Semasa	Pengalaman Lepas (Jawatan Disandang, Nama Projek dan Majikan dan Tempoh Bekerja dan Sebagainya)

* Salinan Penyata Caruman KWSP bagi bulan caruman terkini yang mengandungi nama setiap kakitangan teknikal atau salinan perjanjian perkhidmatan professional yang diambil berkhidmat secara Kontrak.

** Sila sertakan salinan sijil kelulusan atau sijil keahlian Badan-badan Professional.

BORANG G - SENARAI KONTRAK KERJA SEMASA

(Senarai semua kerja di dalam tangan/sedang berjalan dan belum siap termasuk kontrak yang baru diawad)

Bil	Nama Kontrak/Projek+	Nilai Kontrak (RM)	Nilai Petender Bertanggung jawab *	Tempoh Kontrak **	Tarikh Milik Tapak	Tarikh Siap Kontrak	Kemajuan Kerja+		Nama dan Alamat Jurutera Projek	Nama dan Alamat Majikan
							Ikut Jadual (%)	Sebenar Dicapai (%)		

* Hanya perlu diisi sekiranya pentender melaksanakan kerja sebagai ahli syarikat gabungan.

** Tempoh kontrak hendaklah termasuk lanjutan masa yang diluluskan

+ PERINGATAN PENTING

Bagi setiap kerja semasa yang bukan projek MPKj, sertakan (WAJIB) Laporan Penyelia Projek atas format seperti Borang GA dalam satu sampul berlakri. Tender yang tidak disertakan dengan Laporan ini bagi setiap kerja semasa yang disenaraikan, akan ditolak.

**BORANG GA – LAPORAN PENYELIA PROJEK ATAS PRESTASI KERJA (BUKAN PROJEK MPKj)
SEMASA PETENDER**

(Borang ini hendaklah dilengkapkan oleh Penyelia Projek atau Pembantu Kanannya yang mengawasi projek dan diserahkan kepada Kontraktor dalam satu sampul berlakri untuk disertakan bersama-sama tendernya).

Kepada: Bahagian Pengurusan Kontrak & Ukur Bahan
Jabatan Khidmat Pengurusan
Tingkat 4, Menara MPKj
Jalan Cempaka Putih Off Jalan Semenyih
43000 Kajang, Selangor Darul Ehsan

Nama Kontraktor :
NAMA TENDER :
.....

No. Kontrak :
Harga Kontrak (termasuk anggaran nilai kerja perubahan) : RM
Wang Kos Prima dan Peruntukan Sementara : RM
Nilai Kerja Pembina : RM

Tarikh Milik Tapak : Tempoh.....minggu
Tarikh Penyiapan Asal :
Lanjutan Masa Yang Telah Diluluskan..... hari
Lanjutan Masa Seterusnya yang difikirkan/dijangka layak diperakukan hari
Atas sebab-sebab: (i)
(ii)

Kemajuan Kerja (berdasarkan penilaian kerja yang telah dilaksanakan)

Pencapaian sebenar %	Mengikut Jadual %
Jumlah kelewatan (jika berkenaan)	:hari
Tarikh Kerja dijangka akan dapat disiapkan	:
Nilai Bahagian Kerja Yang Telah Siap	: RM
Nilai Baki Kerja Yang Belum Siap	: RM

Ulasan mengenai prestasi kontraktor:

(Nyatakan apa-apa kepujian dan/atau kelemahan kontraktor dan juga apa-apa tindakan/perakuan yang diambil/dipertimbang berhubung dengan prestasi kontraktor melaksanakan kontrak)

Tandatangan Penyelia Projek:

Nama :
Jawatan :

Tarikh:

**BORANG GA1 – LAPORAN PENYELIA PROJEK ATAS PRESTASI KERJA (PROJEK MPKj)
SEMASA PETENDER**

(Borang ini hendaklah dilengkapkan oleh Penyelia Projek atau Pembantu Kanannya yang mengawasi projek dan diserahkan kepada Kontraktor dalam satu sampul berlakri untuk disertakan bersama-sama tendernya).

Kepada: Bahagian Pengurusan Kontrak & Ukur Bahan
Jabatan Khidmat Pengurusan
Tingkat 4, Menara MPKj
Jalan Cempaka Putih Off Jalan Semenyih
43000 Kajang, Selangor Darul Ehsan

Nama Kontraktor :

NAMA TENDER :

No. Kontrak :

Harga Kontrak (termasuk anggaran nilai kerja perubahan) : RM

Wang Kos Prima dan Peruntukan Sementara : RM

Nilai Kerja Pembina : RM

Tarikh Milik Tapak : Tempoh.....minggu

Tarikh Penyiapan Asal :

Lanjutan Masa Yang Telah Diluluskan..... hari

Lanjutan Masa Seterusnya yang difikirkan/dijangka layak diperakukan hari

Atas sebab-sebab: (i)

(ii)

Kemajuan Kerja (berdasarkan penilaian kerja yang telah dilaksanakan)

Pencapaian sebenar %	Mengikut Jadual %
Jumlah kelewatan (jika berkenaan)	:hari
Tarikh Kerja dijangka akan dapat disiapkan	:
Nilai Bahagian Kerja Yang Telah Siap	: RM
Nilai Baki Kerja Yang Belum Siap	: RM

Ulasan mengenai prestasi kontraktor:

(Nyatakan apa-apa kepujian dan/atau kelemahan kontraktor dan juga apa-apa tindakan/perakuan yang diambil/dipertimbang berhubung dengan prestasi kontraktor melaksanakan kontrak)

Tandatangan Penyelia Projek:

Nama :

Jawatan :

Tarikh:

**SCHEDULE OF UNIT RATES AND
TECHNICAL DATA**

SCHEDULE OF TECHNICAL DATA & UNIT RATE FOR MECHANICAL SYSTEM

1 : SCHEDULE OF TECHNICAL DATA FOR MECHANICAL SYSTEM

The Contractor must complete this Schedule of Technical Information as set out below. All information asked for must be given correctly and supported by copies of manufacturer's published technical data and Catalogue for the equipment being offered.

1. COLD WATER SUPPLY

1.1 ABS Pipe

- (a) Make _____
- (b) Country of origin _____
- (c) Type: Above ground _____
- Below ground _____
- (d) Class of pipe _____
- (e) Gauge and conforming standards _____

1.2 GI Class 'C' Pipe

- (a) Make _____
- (b) Country of origin _____
- (c) Type: Above ground _____
- Below ground _____
- Seam / seamless _____
- (d) Class of pipe _____
- (e) Gauge and conforming standards _____

1.3 Poly Stainless Steel Pipe

- (a) Make _____
- (b) Country of origin _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(c)Type:	Above ground	_____
	Below ground	_____
	Seam / seamless	_____
(d)Class of pipe		_____
(e)Gauge and conforming standards		_____
1.4	<u>PVC Pipe</u>	
(a) Make		_____
(b)Country of origin		_____
(c)Type:	Above ground	_____
	Below ground	_____
(d)Class of pipe		_____
(e)Gauge and conforming standards		_____
1.5	<u>Stop Valve</u>	
(a) Make & model no.		_____
(b) Country of origin		_____
(c) Type: Screwed/Flanged		_____
(d) Diameter		_____
(e) Material of body		_____
(f) Material of valve		_____
(g) Rated working pressure		_____
(h) Standards conform to		_____
1.6	<u>Ball Float Valve</u>	
(a) Make & model no.		_____
(b) Country of origin		_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(c) Type: Screwed/Flanged	_____
(d) Diameter	_____
(e) Material of body	_____
(f) Material of valve	_____
(g) Rated working pressure	_____
(h) Standards conform to	_____
1.7 <u>Stop Cock</u>	
(a) Make & model no.	_____
(b) Country of origin	_____
(c) Type: Screwed/Flanged	_____
(d) Diameter	_____
(e) Material of body	_____
(f) Material of valve	_____
(g) Rated working pressure	_____
(h) Standards conform to	_____
1.8 <u>HDPE Water Storage Tank</u>	
(a) Make	_____
(b) Country of origin	_____
(c) Thickness of plate	_____
(d) Material of tank	_____
(e) Tank capacity	_____
(f) Dimensions	_____
(g) Type of joint	_____
(h) Schedule of painting	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

- | | |
|--------------------------------------|-------|
| (i) Make of level indicator | _____ |
| (j) Type of level indicator | _____ |
| (k) Compartment (Yes / No) | _____ |
| (l) External access ladder provided? | _____ |
| (m) Internal access ladder provided? | _____ |

1.9 Fittings

<u>Description</u>	<u>Make</u>	<u>Type</u>
(a) Gate Valve _____	_____	_____
(b) Check Valve _____	_____	_____
(c) Strainer _____	_____	_____
(d) Ball valve _____	_____	_____
(e) Pressure gauge	_____	_____
(f) Pressure switch	_____	_____
(g) Stainless steel no float electrodes c/w holder	_____	_____
(h) Flexible coupling	_____	_____
(i) Air release valve	_____	_____
(j) Vibration isolator	_____	_____

1.10 WATER BOOSTER PUMPSETS

i) PUMPS

- | | |
|----------------------|-------|
| a) Number | _____ |
| b) Manufacturer | _____ |
| c) Country of Origin | _____ |
| d) Type | _____ |

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

- e) Model No. _____
- f) Materials _____
- g) Casing _____
- h) Impeller _____
- i) Stuffing Box _____
- j) Shaft _____
- k) Type of Bearing _____
- l) Type of Case Ring _____
- m) Speed (rpm) _____
- n) Discharge (usgpm/each) _____
- o) Total Head (ft. of water) _____

ii) WATER PUMP MOTOR

- a) Number _____
- b) Manufacturer _____
- c) Country of Origin _____
- d) Type _____
- e) Model No. _____
- f) Insulation Class _____
- g) Speed (rpm) _____
- h) Name Plate H.P _____
- i) V/PH/CY _____
- j) Full Load Amp. On 415V _____
- k) Efficiency on 100% F.L _____
- l) Efficiency on 65% F.L _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

m) Efficiency on 50% F.L. _____

n) Power Factor on 100% F.L. _____

o) Power Factor on 75% F.L. _____

p) Power Factor on 50% F.L. _____

(A) Coupling

a) Number _____

b) Manufacturer _____

c) Country of Origin _____

d) Type _____

e) Model No. _____

f) No. of Bolts/Oil Resistant Rubber Bushing _____

(B) Antivibration Isolator

a) Type if antivibration _____

b) Total Operating Weight (lbs) (each) _____

c) Delivery to Site (Weeks) _____

(C) Pump Motor Starter

a) Number _____

b) Manufacturer _____

c) Country of Origin _____

d) Type _____

e) H.P. _____

1.11 Pump Switchboard

(a) Make & manufacturer _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(b)	Material/gauge of switchboard	_____		
(c)	Dimension of switchboard	_____		
(d)	Operating voltage	_____		
(e)	Current consumption	_____		
(f)	No. of units provided	_____		
(g) Instruments :				
	<u>Make</u>	<u>Range capability</u>	<u>Model</u>	<u>Quantity</u>
Circuit breaker	_____	_____	_____	_____
Starter	_____	_____	_____	_____
Contactors	_____	_____	_____	_____
Ammeters	_____	_____	_____	_____
Voltmeter	_____	_____	_____	_____
Power factor Meter	_____	_____	_____	_____
Earth fault relay	_____	_____	_____	_____
Fuses	_____	_____	_____	_____
Isolator	_____	_____	_____	_____
Indicator lights	_____	_____	_____	_____
Push buttons	_____	_____	_____	_____
Spare isolator	_____	_____	_____	_____
Selector switch	_____	_____	_____	_____
Other items	_____	_____	_____	_____

2 SANITARY PLUMBING INSTALLATION

2.1 Floor Trap

- (a) Manufacture/Supplier _____
- (b) Country of Origin _____
- (c) Material _____
- (d) Dimension _____
- (e) Cover Material _____

2.2 Gully Trap

- (a) Manufacturer/Supplier _____
- (b) Country of Origin _____
- (c) Material _____
- (d) Dimension _____
- (e) Cover Material _____

2.3 Grease Trap

- (a) Manufacturer/Supplier _____
- (b) Country of Origin _____
- (c) Body Material _____
- (d) Grease Trap Cover Material _____
- (e) Capacity(kg) _____
- (f) Flow Rate (litre/second) _____

2.4 Sediment Interceptor

- (a) Manufacturer/Supplier _____
- (b) Country of Origin _____

(c) Material _____

(d) Dimension _____

2.4 Automatic Dosing Unit

(a) Manufacturer/Supplier _____

(b) Country of Origin _____

(d) Material _____

(e) Dimension _____

(f) Pump Flowrate _____

(g) Operating voltage _____

h) Dosing Agent _____

2.5 Manhole/Inspection Chamber

(a) Manufacturer/Supplier _____

(b) Country of Origin _____

(c) Material _____

(d) Dimension _____

2.6 Manhole Cover

(a) Manufacturer/Supplier _____

(b) Brand name _____

(c) Country of Origin _____

(d) Material _____

(e) Gauge and conforming standards _____

(f) Brand name of hose _____

(g) Maximum Load (kg) _____

2.7 Vitrified Clay Pipe (VCP)

- (a) Manufacturer _____
- (b) Country of Origin _____
- (c) Country of origin _____
- (d) Standard Conforming _____

2.8 uPVC Pipe To BS 4660

- (a) Manufacturer's/Supplier _____
- (b) Country of Origin _____
- (c) Standard Confirmation _____

2.9 uPVC Pipe To BS 4514

- (a) Manufacturer's/Supplier _____
- (b) Country of origin _____
- (c) Standard Confirmation _____

3. AIRCONDITIONING AND VENTILATION SYSTEM

3.1 SPLIT AIRCONTIONING UNITS

3.1.1 WALL MOUNTED FAN COIL UNITS

	10,000 Btu/hr	12,000 Btu/hr	20,000 Btu/hr	25,000 Btu/ hr
Capacity (Btu/hr)				
Make				
Country of Origin				
Model No.				
Nominal Cooling Capacity (Btu/hr)				

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

Power Source (V/Ph/Hz)				
Air Flow (cfm)				
Fan Motor				
Control – Room Temperature – Air Discharge				
Condensate Drain Pipe Size (mm)				
Air Filter				

3.1.2 CEILING CASSETTE FAN COIL UNITS

	20,000 Btu/hr	25,000 Btu/hr	30000 Btu/hr	35,000 Btu/ hr
Capacity (Btu/hr)				
Make				
Country of Origin				
Model No.				
Nominal Cooling Capacity (Btu/hr)				
Power Source (V/Ph/Hz)				
Air Flow (cfm)				
Fan Motor				
Control – Room Temperature – Air Discharge				
Condensate Drain Pipe Size (mm)				

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

Air Filter				

3.1.3 AIR COOLED CONDENSING UNIT

	10,000 Btu/hr	12,000 Btu/hr	20,000 Btu/hr	25,000 Btu/hr	30,000 Btu/hr	35,000 Btu/hr
Nominal Capacity (Btu/hr)						
Make						
Country of Origin						
Model No.						
Nominal Total Cooling Capacity (Btu/hr)						
Nominal Sensible Cooling Capacity (Btu/hr)						
Compressor Input (KW)						
Type of Compressor						
Overload for compressor contactor min/max range						
Compressor(s) MCB size						
Type of Condenser Unit						
Nominal Flowrate (USGPM)						
Nominal Water PD						
Water In Temperature (F)						
Water Out Temperature (F)						

3.2 VENTILATION FANS

	200 cfm	350 cfm	1000 cfm	1500 cfm
Air Flow (cfm)				
Make				
Country of Origin				
Model No.				
Fan Diameter (mm)				
Power Source (V/Ph/Hz)				
Air Flow (cfm)				
Fan Motor				
Fan Speed (rpm)				
Motor Manufacturer				
Motor (rpm)				

3.3 PIPE WORK

Refrigerant Pipe

Drain And Condensate Pipe

- a) Manufacturer
- b) Material
- c) Type (seamlesssteel) (Yes/No)
- d) Grade Thickness
- e) Manufacturer of Pipe Fitting

3.4 PIPE & DUCTWORK FITTINGS

Manufacturer

Type

- a) Galvanised Sheet
- b) Double Sided Aluminium Foil
- c) Hanger Support
- d) Turning Vane
- e) Fire Damper
- f) Volume Control Damper

3.5 DIFFUSERS & GRILLES

Manufacturer

Type

Figure

- a) Supply Air Diffuser
- b) Fresh Air Diffuser
- c) Return Air Grille
- d) Supply Air Grille
- e) Fresh Air Grille
- f) Exhaust Air Grille
- g) Linear Diffuser

3.6 THERMAL AND ACOUSTIC INSULATION

Refrigerant
Pipe Insulation

Drain Pipe
Insulation

- a) Make
- b) Country of Origin
- c) Type/Material
- d) Figure No.
- e) Thickness (in)
- f) Density (lb/per cu. ft.)

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

g)	Thermal Conductivity (Btu/hr)	.....
h)	Finish	.....

3.7 Equipment For Testing Commissioning

(Related catalogue c/w technical specification must be attached)

3.7.1 Sling Psychrometer

Item	Descriptions	Equipment Offered
1.	Country of origin (made)	
2.	Brand & Model	
3.	Features	
4.	Thermometer range :-	
	Dry Bulb (°F and °C)	
	Wet Bulb (°F and °C)	
5.	Psychrometric Table :- °F °C	

3.7.2 Amprobe Digital Clamp-On (Amp-Volt-Ohmmeter)

Item	Descriptions	Equipment Offered
1.	Country of origin (made)	
2.	Brand & Model	
3.	Features	
4.	Voltage range Current range Resistance range	
5.	Voltage accuracy Current accuracy Resistance accuracy	
6.	Response time (seconds)	

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

7.	Input Impedance	
8.	Power Operated	
9.	Battery (AH)	
10.	Type & Sizes	

3.7.3 Insulation Tester Megger

Item	Descriptions	Equipment Offered
1.	Country of origin (made)	
2.	Brand & Model	
3.	Features	
4.	Output test Voltage 500VDC and 1000 VDC	Yes/No
5.	Resistance range	
6.	Response time (seconds)	
7.	Input Impedance	
8.	Power Operated	
9.	Battery (AH)	
10.	Type & Sizes	

3.7.4 Digital Dry bulb thermometers (0.25°C accuracy)

Item	Descriptions	Equipment Offered
1.	Country of origin (made)	
2.	Brand & Model	
3.	Features	
9.	Battery)	

3.7.5 Refrigerant pressure gauge

Item	Descriptions	Equipment Offered
1.	Country of origin (made)	
2.	Brand & Model	

4. FIRE PROTECTION SYSTEM

1 SPRINKLER SYSTEM

1.1 Electric Water Pump

- (a) Make _____
- (b) Model no. _____
- (c) Country of origin _____
- (d) Pumping capacity _____ dm³/min _____ bars
(Performance curve required including orifice size used) Head at _____ rpm
- (e) Pump capacity at specified condition _____
- (f) Material of: Casing _____
Impeller _____
Shaft _____
Seal _____
- (g) Pump motor: Make & model no. _____
Type _____
Insulation class _____
Rated kW / hp _____
Volts/phase/Hz _____
- (h) Motor starter: Make & model no. _____
Type _____
Rated kW _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(i)	Pumpset weight	_____
(j)	Total pumpset operating wt.	_____
(k)	Authority issuing pump test certificate	_____
1.2	<u>Diesel Engine Water Pump</u>	
(a)	Make and model no.	_____
(b)	Country of origin	_____
(c)	Pumping capacity	_____ dm ³ /min _____ bars
	(Performance curve required including orifice size used)	Head at _____ rpm
(d)	Pump capacity at specified condition	_____
(e)	Pump horse power (hp)	_____
(f)	Material of:	
	Casing	_____
	Impeller	_____
	Shaft	_____
	Seal	_____
(g)	Manufacturer of pump	_____
(h)	Model no. of pump	_____
(i)	Manufacturer of diesel engine	_____
(j)	Model no. of diesel engine	_____
(k)	No. of cylinder	_____
(l)	Piston displacement	_____
(m)	Specific fuel consumption at max. torque	_____
(n)	Mode of cooling	_____
(o)	Net weight (Diesel Engine)	_____
(p)	Type of engine mounting	_____
(q)	Automatic start/stop provided (Yes/No)	_____
(r)	Manual start/stop provided (Yes/No)	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(s) Total pumpset weight	_____
(t) Total pumpset operating wt.	_____
(u) Authority issuing pump test certificate	_____
1.3 <u>Dry-cell Battery c/w Cabinet (Diesel Engine)</u>	
(a) Manufacturer of battery	_____
(b) Model no. of battery	_____
(c) Ampere hour	_____
(d) Rated voltage	_____
(e) Number of batteries	_____
(f) Type of batteries	_____
(g) Overall dimension	_____
1.4 <u>Electric Multistage Jockey Pump</u>	
(a) Make and model no.	_____
(b) Country of origin	_____
(c) Pumping capacity (Performance curve required including orifice size used)	_____dm ³ /min_____bars Head at_____rpm
(d) Pump capacity at specified condition	_____
(e) Material of: Casing	_____
Impeller	_____
Shaft	_____
Seal	_____
(f) Pump motor: Make & model no.	_____
Type	_____
Insulation class	_____
Rated kW / hp	_____
Volts/phase/Hz	_____

(h) Total pumpset weight	_____
(i) Authority issuing pump test certificate	_____
1.5 <u>Sprinkler Heads</u>	
(a) Make and model	_____
(b) Country of origin	_____
(c) Type	_____
(d) Fusing temperature	_____
(e) Orifice size	_____
(f) Material of body	_____
(g) Finishes of body	_____
(h) Intensity of water per m ²	_____
(i) Authority listed with (Attach certificate)	_____
(j) No. of sprinkler provided	_____
(k) No. of spare sprinklers provided	_____
1.6 <u>Piping</u>	
(f) Make	_____
(g) Country of origin	_____
(h) Type:	_____
Above ground	_____
Below ground	_____
Seam / seamless	_____

1.5 Sprinkler Heads

1.6 Piping

1.7 Main Stop Valves

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

	(a) Make & model no.	_____
	(b) Country of origin	_____
	(c) Type: Screwed/Flanged	_____
	(d) Diameter	_____
	(e) Material of body	_____
	(f) Material of valve	_____
	(g) Rated working pressure	_____
	(h) Standards conform to (Attach certificate)	_____
1.8	<u>Stop Valve</u>	
	(i) Make & model no.	_____
	(j) Country of origin	_____
	(k) Type: Screwed/Flanged	_____
	(l) Diameter	_____
	(m) Material of body	_____
	(n) Material of valve	_____
	(o) Rated working pressure	_____
	(p) Standards conform to	_____
1.9	<u>Alarm Valve</u>	
	(a) Make & model no.	_____
	(b) Country of origin	_____
	(c) Type: Screwed/Flanged	_____
	(d) Diameter	_____
	(e) Material of body	_____
	(f) Material of valve	_____
	(g) Rated working pressure	_____
	(h) Standards conform to	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

1.10 Test Valve

- (i) Make & model no. _____
- (j) Country of origin _____
- (k) Type: Screwed/Flanged _____
- (l) Diameter _____
- (m) Material of body _____
- (n) Material of valve _____
- (o) Rated working pressure _____
- (p) Standards conform to _____

1.11 Drain Valve

- (i) Make & model no. _____
- (j) Country of origin _____
- (k) Type: Screwed/Flanged _____
- (l) Diameter _____
- (m) Material of body _____
- (n) Material of valve _____
- (o) Rated working pressure _____
- (p) Standards conform to _____

1.12 Zone Isolating Valve

- (a) Make & model no. _____
- (b) Country of origin _____
- (c) Type: Screwed/ Flanged _____
- (d) Material of body _____
- (e) Material of valve _____
- (f) Pressure ratings _____
- (g) Type of microswitch _____
- (h) Electrical characteristics of microswitch _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

	(i) Authority listed with? (UL/FM)	_____
1.13	<u>Sight Glass</u>	
	(a) Make & model no.	_____
	(b) Type of glass	_____
	(c) Size (diameter & length)	_____
1.14	<u>Water Motor Alarm Gong</u>	
	(a) Make & model no.	_____
	(b) Country of origin	_____
	(c) Gong diameter	_____
	(d) Operating pressure range	_____
1.15	<u>Orifice</u> (At pump discharge)	
	(a) Make & size	_____
	(b) Country of origin	_____
	(c) Diameter	_____
	(d) Material	_____
1.16	<u>Orifice</u> (At zone discharge pipe)	
	(a) Make & size	_____
	(b) Country of origin	_____
	(c) Diameter	_____
	(d) Material	_____
1.17	<u>Pressure Switch</u>	
	(a) Make & model no.	_____
	(b) Country of origin	_____
	(c) Type	_____
1.18	<u>Flow Switch</u>	
	(a) Make & model no.	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

	(b) Country of origin	_____
	(c) Type	_____
1.19	<u>Breeching Inlet</u>	
	(a) Make & model no.	_____
	(b) Country of origin	_____
	(c) Type	_____
	(d) Diameter	_____
	(e) No. of inlets	_____
	(f) Box dimensions	_____
1.20	<u>Flow Meter</u> (Flow Rate Indication)	
	(a) Make & model no.	_____
	(b) Type	_____
	(c) Country of manufacture	_____
	(d) Gpm range	_____
	(e) Rated pressure	_____
	(f) Recommended piping size	_____
1.21	<u>Water Tank</u>	
	(n) Make	_____
	(o) Country of origin	_____
	(p) Thickness of steel plate	_____
	(q) Material of tank	_____
	(r) Tank capacity	_____
	(s) Dimensions	_____
	(t) Type of joint	_____
	(u) Schedule of painting	_____
	(v) Make of level indicator	_____
	(w) Type of level indicator	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

- | | |
|--------------------------------------|-------|
| (x) Compartment (Yes / No) | _____ |
| (y) External access ladder provided? | _____ |
| (z) Internal access ladder provided? | _____ |

1.22 Fittings

- | <u>Description</u> | <u>Make</u> | <u>Type</u> |
|--|-------------|-------------|
| (a) Gate Valve | _____ | _____ |
| (b) Check Valve | _____ | _____ |
| (c) Strainer _____ | _____ | _____ |
| (d) Ball valve _____ | _____ | _____ |
| (e) Pressure gauge | _____ | _____ |
| (f) Pressure switch | _____ | _____ |
| (g) Stainless steel no float electrodes c/w holder | _____ | _____ |
| (h) Flexible coupling | _____ | _____ |
| (i) Air release valve | _____ | _____ |
| (j) Vibration isolator | _____ | _____ |

1.23 Pump Switchboard

- | | |
|-----------------------------------|-------|
| (a) Make & manufacturer | _____ |
| (b) Material/gauge of switchboard | _____ |
| (c) Dimension of switchboard | _____ |
| (d) Operating voltage | _____ |
| (e) Current consumption | _____ |
| (f) No. of units provided | _____ |

(g) Instruments:

- | | <u>Make</u> | <u>Range capability</u> | <u>Model</u> | <u>Quantity</u> |
|-----------------------|-------------|-------------------------|--------------|-----------------|
| Circuit breaker _____ | _____ | _____ | _____ | _____ |
| Starter _____ | _____ | _____ | _____ | _____ |

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

Contactors				
Ammeters				
Voltmeter				
Power factor meter				
Earth fault relay				
Fuses				
Isolator				
Indicator lights				
Push buttons				
Spare isolator				
Selector switch				
Other items				

2 HOSE REEL SYSTEM

2.1 Electrical Pumpset

- (e) Manufacture of pump _____
- (f) Model no. of pump _____
- (g) Material of impeller _____
- (h) Material of shaft _____
- (i) Type of seal _____
- (j) Flow rate of pump _____
- (k) Total head of pump _____
- (l) Efficiency of pump (%) _____
- (m) Manufacturer of electric motor _____
- (n) Model no. of electric motor _____
- (o) Motor horse power (hp) _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

-
- (p) Power rating _____
- (q) Rpm of motor _____
- (r) Electrical characteristics (volts/frequency/phase) _____
- (s) Class of insulation _____
- (t) Type of starter _____
- (u) Brand name of starter _____
- (v) Set starting pressure _____
- (w) Set shut off pressure _____

2.2 Diesel Engine Pumpset

- (e) Manufacturer of pump _____
- (f) Model no. of pump _____
- (g) Material of impeller _____
- (h) Material of shaft _____
- (i) Type of seal _____
- (j) Flow rate of pump _____
- (k) Total head of pump _____
- (l) Motor horse power (hp) _____
- (m) Power rating _____
- (n) Efficiency of pump (%) _____
- (o) Manufacturer of diesel engine _____
- (p) Model no. of diesel engine _____
- (q) No. of cylinder _____
- (r) Piston displacement _____
- (s) Max. power/rpm with all accessories driven _____
- (t) Max. torque and rpm _____
- (u) Specific fuel consumption at max. torque _____
- (v) Mode of cooling _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(w) Net weight _____

(x) Type of engine mounting _____

(y) Automatic start/stop provided (Yes/No) _____

(z) Manual start/stop provided (Yes/No) _____

(aa) Capacity of Diesel Tank _____

2.3 Dry-cell Battery c/w Cabinet (Diesel Engine)

(e) Manufacturer of battery _____

(f) Model no. of battery _____

(g) Ampere hour _____

(h) Rated voltage _____

(i) Number of batteries _____

(j) Type of batteries _____

(k) Overall dimension _____

2.4 Hose Reel

(h) Manufacturer of reel _____

(i) Brand name of reel _____

(j) Model no. of reel _____

(k) Type of reel _____

(l) Diameter of reel _____

(m) Total no. of reel provided c/w
hose, stop valve and shut-off nozzle _____

(n) Manufacturer of hose _____

(o) Brand name of hose _____

(p) Diameter of hose _____

(q) Length of each hose _____

(r) Working pressure of hose _____

(s) Bursting pressure of hose _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(t) Make of stop valve	_____
(u) Type of stop valve	_____
(v) Make of nozzle	_____
(w) Type of nozzle	_____
(x) Quantity provided	_____
2.5 <u>Water Storage Tank</u>	
(d) Manufacturer's name	_____
(e) Brand name/Type of tank	_____
(f) Capacity of tank (gallons)	_____
(g) Dimension of tank	_____
(h) Material of plate	_____
(i) Thickness of plate	_____
(j) Type of joint	_____
(k) Schedule of painting	_____
(l) Make of level indicator	_____
(m) Type of level indicator	_____
(n) Is external access ladder provided	_____
	(Yes/No)
(o) Is internal access ladder provided	_____
	(Yes/No)
2.6 <u>Piping</u>	
(d) Make	_____
(e) Country of origin	_____
(f) Type: Galvanised steel	_____
Seam / seamless	_____
(g) Class of pipe	_____
(h) Gauge and conforming standards	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

2.7 Fuel Tank

- (a) Make _____
- (b) Thickness _____
- (c) Tank capacity _____
- (d) Dimension _____
- (e) Type of fuel _____

2.8 Fittings

<u>Description</u>	<u>Make</u>	<u>Type</u>
(k) Gate Valve	_____	_____
(l) Check Valve	_____	_____
(m) Strainer	_____	_____
(n) Ball valve	_____	_____
(o) Pressure gauge	_____	_____
(p) Pressure switch	_____	_____
(q) Stainless steel no float electrodes c/w holder	_____	_____
(r) Flexible coupling	_____	_____
(s) Air release valve	_____	_____
(t) Vibration isolator	_____	_____

2.9 Pump Switchboard

- (a) Make & manufacturer _____
- (b) Material/gauge of switchboard _____
- (c) Dimension of switchboard _____
- (d) Operating voltage _____
- (e) Current consumption _____
- (f) No. of units provided _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(g) Instruments :

	<u>Make</u>	<u>Range capability</u>	<u>Model</u>	<u>Quantity</u>
Circuit breaker	_____	_____	_____	_____
Starter	_____	_____	_____	_____
Contactors	_____	_____	_____	_____
Ammeters	_____	_____	_____	_____
Voltmeter	_____	_____	_____	_____
Power factor meter	_____	_____	_____	_____
Earth fault relay	_____	_____	_____	_____
Fuses	_____	_____	_____	_____
Isolator	_____	_____	_____	_____
Indicator lights	_____	_____	_____	_____
Push buttons	_____	_____	_____	_____
Spare isolator	_____	_____	_____	_____
Selector switch	_____	_____	_____	_____
Other items	_____	_____	_____	_____

3 FIRE DETECTION AND ALARM SYSTEM**3.1 Main Fire Alarm Panel**

- (a) Make & manufacturer _____
- (b) Country of origin _____
- (c) Construction material/gauge _____
- (d) Enclosure dimensions _____
- (e) Provision of surge arrester _____
- (f) Weight (kg) _____
- (g) Finishing _____
- (h) Addressable capability _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(i) Fault-isolation capability	_____
(j) Authority listed with? (UL/FM)	_____
(k) Alarm verification capability	_____
(l) BAS integration capability	_____
(m) Current consumption	_____
(n) Ambient operating temperature/RH	_____
(o) Direct fire brigade capability	_____
(p) No. of loop	_____
(q) Maximum wiring distance in a loop	_____
(r) No. of sensors and devices in a loop	_____
(s) Is printer provided?	_____
(t) Logical Display :	
- Manufacturer	_____
- Power Consumption	_____
- No. of character	_____
- Push Buttons or switch	_____
- Working voltage	_____
(u) Addressing and labeling :	
- Capable of labeling outstation address	_____
- No. of outstation label characters	_____
- I/O labeling	_____
- Zoning labeling	_____
3.2 <u>Manual Call Points</u>	
(a) Make & model no.	_____
(b) Type	_____
(c) Country of origin	_____
(d) Open or closed circuit	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

- (e) Dimension s _____
- (f) Quantity provided _____

3.3 Alarm Sounder/Bell

- (a) Make & model no. _____
- (b) Country of origin _____
- (c) Voltage _____
- (d) Sound level range (dB) at 10 feet _____
- (e) Dimensions _____
- (f) Quantity provided _____

3.4 Battery

- (a) Make _____
- (b) Type _____
- (c) Capacity _____
- (d) Ampere - hour (fully charged) _____
- (e) Voltage _____
- (f) Nos. of batteries _____
- (g) Standby time _____

NOTE: i. Tenderers who offer batteries other than maintenance free (dry cell / dry fit) batteries or batteries with capacity less than that specified will not be considered.

ii. The contractor shall attach the calculation endorsed by a Professional Engineer to justify the capacity of batteries selected. Failure to do so shall affect the tenderer to be disqualified.

3.5 Battery Charger

- (a) Make & model _____
- (b) Country of origin _____
- (c) Charging rate _____
- (d) Charging voltage _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

3.6 Mimic Panel with LED indicator

(a) Make & model no.

(b) Country of origin

(c) Voltage

(d) Type (LED, etc.)

(e) Dimension

(f) Casing thickness

(g) Quantity provided

3.7 Smoke Detectors

(a) Manufacturer

(b) Model/Part no.

(c) Addressable capability

(d) Intelligent (analogue) capability

(e) Remote/local test capability

(f) Method of addressing

(g) Area of Protection

(h) Humidity Condition (operational)

(i) Current Consumption

(j) Sensor type

(k) Status Indicator

(l) Quantity provided

3.8 Heat Detectors

(a) Manufacturer

(b) Model/Part no.

(c) Addressable capability

(d) Intelligent (analogue) capability

(e) Remote/local test capability

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(f)	Method of addressing	_____
(g)	Area of Protection	_____
(h)	Humidity Condition (operational)	_____
(i)	Current Consumption	_____
(j)	Sensor type	_____
(k)	Status Indicator	_____
(l)	Quantity provided	_____
(m)	Detector c/w built-in isolator	_____
		(Yes/No)
3.9	<u>Monitor Module</u>	
(a)	Manufacturer	_____
(b)	Model/Part no.	_____
(c)	Status Indicator	_____
(d)	Current Consumption	_____
(e)	No of equipment can be interfaced	_____
(f)	Quantity provided	_____
3.12	<u>FAULT-ISOLATION MODULE</u>	
(a)	Manufacturer	_____
(b)	Model/Part no.	_____
(c)	Status Indicator	_____
(d)	Current Consumption	_____
(e)	No. of devices between isolators	_____
(f)	No. of zones between isolators	_____
(g)	Quantity provided	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

3.13 CABLING (above ground)

- (a) Make _____
- (b) Type - **Screen** (Yes / No) _____
- (c) Size/core _____
- (d) Size of conduit _____

3.14 ARMOURED CABLING (underground)

- (a) Make _____
- (b) Type _____
- (c) Size/core _____
- (d) Method of laying cable
(please attach drawing) _____

4 INTERFACE TO BOMBA (SPKA) Through Internet c/w Wifi

- (a) Is interfacing to BOMBA possible _____
- (b) Method of interfacing _____
- (c) Proprietary interfacing system
conversion already available _____ (please specify)
- (d) Other features _____

5 PORTABLE FIRE EXTINGUISHER

5.1 Fire Extinguisher (CO2).

- (a) Make / Model _____
- (b) Agent Concentration _____
- (c) Type of agent extinguishing device _____
- (d) Size/Material of cylinder _____
- (e) Cylinder storage pressure _____
- (f) Filled weight of cylinder _____
- (g) Effective period of agent _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

- (h) No. of unit _____
- 5.2 Fire Extinguisher (Dry Powder).
- (a) Make / Model _____
- (b) Agent Concentration _____
- (c) Type of agent extinguishing device _____
- (d) Size/Material of cylinder _____
- (e) Cylinder storage pressure _____
- (f) Filled weight of cylinder _____
- (g) Effective period of agent _____
- (h) No. of unit _____

DOKUMEN MEJA TAWARAN

2 : SCHEDULE OF UNIT RATE FOR MECHANICAL SYSTEM

The rate entered hereinafter shall be used for any variation in the quantities of work carried out and shall be applicable to both additional and deleted work.

Unit rate shall include overhead, profit and shall cover supply, installation with supports or mountings, painting and labeling, commissioning and testing.

Pipework installed per meter run including joints, hanger and painting or laid underground including excavation, bedding benefit and compaction.

1. COLD WATER SUPPLY & SANITARY PLUMBING

1.1 Pipework (Above And Underground)

Price Per Meter Run (RM/Meter)							
Nominal Size (mm)	ABS (PN 12)	ABS (PN 15)	Vetrify Clay Pipe (VCP)	M.S Cement Lined Pipe	GI Class 'C'	Poly Stainless Steel	PPR Class PN20
	MS 1419	MS 1419		BS 534			
20							
25							
32							
40							
50							
65							
80							
100							
125							
150							

1.2. Pipework (Above And Underground)

Price Per Meter Run (RM/Meter)							
Nominal Size (mm)	HDPE (PN 12.5)	HDPE (PN 15)	PB (Poly Butylene)	PPR (Poly propylene)	uPVC	uPVC	
					BS 5255 BS 4514	BS 4660	
20							
25							
32							
40							
50							
65							
80							
100							

1.3. Fitting: ABS PN 12 (MS 1419)

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Cross	Long Band	Flanges	
20						
25						
32						
40						
50						

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

1.4. Fitting : ABS PN 15 (MS 1419)

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Cross	Long Band	Flanges	
20						
25						
32						
40						
50						

1.5. Fitting : GI Class 'C'

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Cross	Long Band	Flanges	
20						
25						
32						
40						
50						

1.6 Fitting : UPVC Class '7'

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Cross	Long Band	Flanges	
20						
25						
32						
40						
50						

1.7 Fitting : HDPE PN 12.5

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Cross	Long Band	Flanges	
20						
25						
32						
40						
50						

1.8 Fitting : HDPE PN 15

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Cross	Long Band	Flanges	
20						
25						
32						
40						
50						

1.9 Fitting : uPVC BS 5255/BS 5255

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Cross	Long Band	Flanges	
32						
40						
50						
80						
100						
150						

1.10 Fitting : uPVC BS 4660

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

Price (RM)						
Nominal Size (mm)	Elbow	Tee	Reducer	Reducer Tee		
50						
65						
75						
100						
150						

1.11 Supply and Install per unit:-

Item		Price Per Unit (RM)
(a)	Manhole with heavy duty cover (600mm x 450mm)	
(b)	Manhole with heavy duty cover (750mm x 750mm)	
(c)	Manhole with heavy duty cover (1125mm x 900mm)	
(d)	Manhole with light duty cover (600mm x 450mm)	
(e)	Manhole with light duty cover (750mm x 450mm)	
(f)	Floor trap (stainless steel)	
(g)	Gully trap	
(h)	Biomatic Grease Interceptor	
(i)	Oil Interceptor	
(j)	Heavy duty manhole cover Grade A (MASO to BS 497, 1976) Circular type	
(k)	Light duty manhole cover BS 497, 1976, Circular type	
(l)	Medium duty manhole cover BS 497, 1976, Circular type	
(p)	Installation of sanitary appliances including connection to services pipe and necessary accessories	
(q)	a. Water closet pedestal type	
(r)	b. Water closet squat type	

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

(s)	c. Basin	
(t)	d. Sink	
(u)	e. Water Cistern	
(V)	Polyethylene Storage Tank	

2. AIRCONDITIONING AND MECHANICAL VENTILATION SYSTEM

2.1 AIR COOLED SPLIT UNIT

<u>CONDENSING UNIT (BTU/HR)</u>	<u>TYPE</u>	<u>PRICE PER UNIT</u>
10000		
12000		
15000		
18000		
24000		
28000		

<u>INDOOR UNIT (BTU/HR)</u>	<u>TYPE</u>	<u>PRICE PER UNIT</u>
9000	<u>Wall Mounted</u>	
12000	<u>Wall Mounted</u>	
13500	<u>Wall Mounted</u>	
18000	<u>Wall Mounted</u>	
20000	<u>Ceiling Cassette</u>	
24000	<u>Ceiling Cassette</u>	
30000	<u>Ceiling Cassette</u>	
35000	<u>Ceiling Cassette</u>	

2.2 DUCTWORK

The price quoted shall be per sq. ft. of duct surface installed, including hangers, brackets, vapour foils, etc.

Galvanised Iron

Longest Side (Inches)	Bare Duct	Ductwork with 1" external insulation	Ductwork with 1" external insulation	Ductwork with 1" external and internal insulation	Ductwork with 2" external insulation
up to 12"					
13 - 18"					
19 - 30"					
31 - 42"					

2.3 PIPEWORK

The price quoted be per metre run including pipe fittings, hangers, supports and painting but excluding valves, etc.

Nominal Pipe Diameter	Drain Pipe		Refrigerant Pipe
	With Insulation	Without Insulation	
25 mm			
40 mm			
50 mm			

2.4 REFRIGERANT PIPE

The price quoted be per metre run including 1" insulation, pipe fittings, hangers, supports and painting but excluding valves, etc.

PIPE SIZE	PRICE PER METRE RUN
06 mm diameter.	
10 mm diameter.	
16 mm diameter.	
17 mm diameter.	
20 mm diameter.	

2.5. CABLE (Unit Rate At Per Meter Run)

<u>Item</u>	<u>Description</u>	<u>Unit Rate Per Meter run</u>
1.	2 x 2.5 sq mm PVC cable	RM
2.	2 x 4 sq mm PVC cable	RM
3.	2 x 6 sq mm PVC cable	RM

3. FIRE PROTECTION SYSTEM

Note:

- 1) General description of work and materials shall be as stated in the appropriate section of the Conditions of Contract and the Specification.
- 2) The rates shall be subject to:
 - a) Agreement with the Majlis Perbandaran Sepang as to their reasonableness; and
 - b) Subject to such agreement, shall they be used as the basis of progress payments and as Schedule of Rates for calculating the cost of any variations which may be ordered in accordance with the terms of Contract.

<u>Item</u>	<u>Supply and Install</u>	<u>Size</u>	<u>Unit</u>	<u>Rate</u>
1.	Electric cable	a) 1.5 mm	Per ft run	RM _____
		b) 2.5 mm	"	RM _____
		c) 4.0 mm	"	RM _____
2.	Electric cable in conduit	a) 1.5 mm	Per ft run	RM _____
		b) 2.5 mm	"	RM _____
		c) 4.0 mm	"	RM _____
3.	Screen cable	a) 1.5 mm	Per ft run	RM _____
		b) 2.5 mm	"	RM _____
		c) 4.0 mm	"	RM _____
4.	Screen cable in conduit	a) 1.5 mm	Per ft run	RM _____
		b) 2.5 mm	"	RM _____
		c) 4.0 mm	"	RM _____
5.	Armoured cable	a) 1.5 mm	Per ft run	RM _____
		b) 2.5 mm	"	RM _____
		c) 4.0 mm	"	RM _____
6.	Armoured screen cable	a) 1.5 mm	Per ft run	RM _____
		b) 2.5 mm	"	RM _____
		c) 4.0 mm	"	RM _____
7.	Resistance bridge/ionization combustion product smoke detector	a)	Per unit	RM _____
		b)	"	RM _____
		c)	"	RM _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

8.	Underground G.I. Class 'C' pipes	a) 2" dia.	Per ft run	RM _____
		b) 2 1/2" dia.	"	RM _____
		c) 3" dia.	"	RM _____
		d) 4" dia.	"	RM _____
		e) 6" dia.	"	RM _____
9.	G.I. Class 'C' pipes	a) 3/4" dia.	Per ft run	RM _____
		b) 1" dia.	"	RM _____
		c) 1 1/4" dia.	"	RM _____
		d) 1 1/2" dia.	"	RM _____
		e) 2" dia.	"	RM _____
		f) 2 1/2" dia.	"	RM _____
		g) 3" dia.	"	RM _____
		h) 4" dia.	"	RM _____
		i) 6" dia.	"	RM _____
10.	Black steel Class 'C' pipes	a) 3/4" dia.	Per ft run	RM _____
		b) 1" dia.	"	RM _____
		c) 1 1/4" dia.	"	RM _____
		d) 1 1/2" dia.	"	RM _____
		e) 2" dia.	"	RM _____
		f) 2 1/2" dia.	"	RM _____
		g) 3" dia.	"	RM _____
		h) 4" dia.	"	RM _____
		i) 6" dia.	"	RM _____
11.	Schedule 40 seamless galvanised steel pipes	a) 1/2" dia.	Per ft run	RM _____
		b) 3/4" dia.	"	RM _____
		c) 1" dia.	"	RM _____
		d) 1 1/4" dia.	"	RM _____
		e) 1 1/2" dia.	"	RM _____
		f) 2" dia.	"	RM _____
12.	Schedule 80 seamless galvanised steel pipes	a) 1" dia.	Per ft run	RM _____
		b) 1 1/4" dia.	"	RM _____
		c) 1 1/2" dia.	"	RM _____
		d) 2" dia.	"	RM _____
		e) 2 1/2" dia.	"	RM _____
		f) 3" dia.	"	RM _____
13.	G.I. elbows	a) 1/2" dia.	Per ft run	RM _____
		b) 3/4" dia.	"	RM _____
		c) 1" dia.	"	RM _____
		d) 1 1/4" dia.	"	RM _____
		e) 1 1/2" dia.	"	RM _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

	f)	2" dia.	"	RM	
	g)	2 1/2" dia.	"	RM	
	h)	3" dia.	"	RM	
	i)	4" dia.	"	RM	
	j)	6" dia.	"	RM	
14.	Schedule 40 seamless galvanised steel elbows	a)	1/2" dia.	Per ft run	RM
		b)	3/4" dia.	"	RM
		c)	1" dia.	"	RM
		d)	1 1/4" dia.	"	RM
		e)	1 1/2" dia.	"	RM
		f)	2" dia.	"	RM
15.	Schedule 80 seamless galvanised steel elbows	a)	1/2" dia.	Per ft run	RM
		b)	3/4" dia.	"	RM
		c)	1" dia.	"	RM
		d)	1 1/4" dia.	"	RM
		e)	1 1/2" dia.	"	RM
		f)	2" dia.	"	RM
		g)	2 1/2" dia.	"	RM
16.	G.I. tees	a)	3/4" dia.	Per unit	RM
		b)	1" dia.	"	RM
		c)	1 1/4" dia.	"	RM
		d)	1 1/2" dia.	"	RM
		e)	2" dia.	"	RM
		f)	2 1/2" dia.	"	RM
		g)	3" dia.	"	RM
		h)	4" dia.	"	RM
		i)	6" dia.	"	RM
17.	Schedule 40 seamless galvanised steel tees	a)	1/2" dia.	Per unit	RM
		b)	3/4" dia.	"	RM
		c)	1" dia.	"	RM
		d)	1 1/4" dia.	"	RM
		e)	1 1/2" dia.	"	RM
		f)	2" dia.	"	RM
18.	Schedule 80 seamless galvanised steel tees	a)	1/2" dia.	Per unit	RM
		b)	3/4" dia.	"	RM
		c)	1" dia.	"	RM
		d)	1 1/4" dia.	"	RM
		e)	1 1/2" dia.	"	RM
		f)	2" dia.	"	RM
		g)	2 1/2" dia.	"	RM
19.	G.I. cross tees	a)	1/2" dia.	Per unit	RM

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

		b)	3/4" dia.	"	RM	_____
		c)	1" dia.	"	RM	_____
		d)	1 1/4" dia.	"	RM	_____
		e)	1 1/2" dia.	"	RM	_____
		f)	2" dia.	"	RM	_____
		g)	2 1/2" dia.	"	RM	_____
		h)	3" dia.	"	RM	_____
		i)	4" dia.	"	RM	_____
		j)	6" dia.	"	RM	_____
20.	Schedule 40 seamless galvanised steel cross tees	a)	1/2" dia.	Per unit	RM	_____
		b)	3/4" dia.	"	RM	_____
		c)	1" dia.	"	RM	_____
		d)	1 1/4" dia.	"	RM	_____
		e)	1 1/2" dia.	"	RM	_____
		f)	2" dia.	"	RM	_____
		.				
21.	Schedule 80 seamless galvanised steel cross tees	a)	1/2" dia.	Per unit	RM	_____
		b)	3/4" dia.	"	RM	_____
		c)	1" dia.	"	RM	_____
		d)	1 1/4" dia.	"	RM	_____
		e)	1 1/2" dia.	"	RM	_____
		f)	2" dia.	"	RM	_____
		g)	2 1/2" dia.	"	RM	_____
		.				
22.	G.I. reducing tees	a)	2" dia. x 1" dia.	Per unit	RM	_____
		b)	2 1/2" dia. x 1" dia.	"	RM	_____
		c)	dia.	"	RM	_____
		d)	2 1/2" dia. x 2" dia.	"	RM	_____
		e)	dia.	"	RM	_____
		f)	3" dia.	"	RM	_____
23.	Schedule 40 seamless galvanised steel reducing tees	a)	1/2" dia.	Per unit	RM	_____
		b)	3/4" dia.	"	RM	_____
		c)	1" dia.	"	RM	_____
		d)	1 1/4" dia.	"	RM	_____
		e)	1 1/2" dia.	"	RM	_____
		f)	2" dia.	"	RM	_____
		.				
24.	Schedule 80 seamless galvanised steel reducing tees	a)	3/4" dia.	Per unit	RM	_____
		b)	1" dia.	"	RM	_____
		c)	1 1/4" dia.	"	RM	_____
		d)	1 1/2" dia.	"	RM	_____
		e)	2" dia.	"	RM	_____
		f)	2 1/2" dia.	"	RM	_____
25.	Gate valves	a)	1" dia.	Per unit	RM	_____
		b)	2" dia.	"	RM	_____
		c)	2 1/2" dia.	"	RM	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

	d)	3" dia.	"	RM _____
	e)	4" dia.	"	RM _____
	f)	6" dia.	"	RM _____
26.	Check valves	a)	2" dia.	Per unit RM _____
		b)	2 1/2" dia.	" RM _____
		c)	3" dia.	" RM _____
		d)	4" dia.	" RM _____
		e)	6" dia.	" RM _____
			"	
27.	Air release valves	a)	1" dia.	Per unit RM _____
		b)	1 1/4" dia.	" RM _____
		c)	1 1/2" dia.	" RM _____
		d)	2" dia.	" RM _____
		e)	2 1/2" dia.	" RM _____
		f)	3" dia.	" RM _____
			"	
28.	Strainers	a)	2" dia.	Per unit RM _____
		b)	4" dia.	" RM _____
		c)	6" dia.	" RM _____
			"	
29.	Flexible couplings	a)	1/2" dia.	Per unit RM _____
		b)	3/4" dia.	" RM _____
		c)	1" dia.	" RM _____
		d)	1 1/4" dia.	" RM _____
		e)	1 1/2" dia.	" RM _____
		f)	2" dia.	" RM _____
		g)	2 1/2" dia.	" RM _____
		h)	3" dia.	" RM _____
		i)	4" dia.	" RM _____
		j)	6" dia.	" RM _____
			"	
30.	Pressure gauge	a)	4" dia.	Per unit RM _____
		b)	6" dia.	" RM _____
			"	
31.	Pressure switches	a)	1/2" dia.	Per unit RM _____
		b)	3/4" dia.	" RM _____
		c)	1" dia.	" RM _____
		d)	1 1/4" dia.	" RM _____
		e)	1 1/2" dia.	" RM _____
		f)	2" dia.	" RM _____
			"	
32.	Pump control switches	a)	2" dia.	Per unit RM _____
		b)	2 1/2" dia.	" RM _____
		c)	3" dia.	" RM _____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

	d)	4" dia.	"	RM	_____
	e)	6" dia.	"	RM	_____
33.		Stainless steel no-float electrodes c/w holder	Per unit	RM	_____
34.		Hose reel c/w stop valve, shut-off nozzle, 100 ft long rubber hose & steel cabinet	a) Swing type	Per unit	RM _____ RM
			b) Fixed type	"	_____
			c) Door mounted cabinet type	"	RM _____
35.		Manual call points	Per unit	RM	_____
36.		Alarm bell	a) 6" dia.	Per unit	RM _____
			b) 9" dia.	"	_____
37.		Dry Cell Ni-Cd Battery	a) 24V, 10AH	Per unit	RM _____
38.		Fire alarm panel, etc.	Per unit	RM	_____
39.		Control panel, etc.	Per unit	RM	_____
40.		Master circuit board	Per unit	RM	_____
41.		Power Card	Per unit	RM	_____
42.		Charger Card	Per unit	RM	_____
43.		Zone Card	Per unit	RM	_____
44.		Bell card	Per unit	RM	_____
45.		Discharge card	Per unit	RM	_____
46.		Mimic Diagram	Per unit	RM	_____
47.		Floor Mimic Diagram	Per unit	RM	_____
48.		Clean Agent gas extinguisher cylinder (empty)	a)	Per unit	RM _____
			b)	"	RM _____
			c)	"	RM _____
49.		Clean Agent Cylinder actuating valve	a) Electric	Per unit	RM _____
			b) Pneumatic	"	RM _____
			c) Manual	"	RM _____
50.		Clean Agent Manual / Electric key switch	Per unit	RM	_____
			Per unit	RM	_____

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

51.	Clean Agent discharge nozzle	a) b) c)	Per unit " "	RM _____ RM _____ RM _____
52.	Red, amber & green warning light		Per unit	RM _____
53.	Addressable interface card		Per unit	RM _____
54.	Lightning Arrestor		Per unit	RM _____
55.	Resistance bridge/ionization combustion product smoke detector		Per unit	RM _____
56.	Clean Agent gas charge per kg.		Per Kg.	RM _____
57.	Clean Agent control panel c/w wiring, controls,etc.		Per unit	RM _____
58.	Heat detector		Per unit	RM _____
59.	Smoke detector		Per unit	RM _____
60.	Others (to state):			RM _____

SCHEDULE OF TECHNICAL DATA AND UNIT RATES FOR ELECTRICAL INSTALLATION

L.V ELECTRICAL INSTALLATION

The unit rates quoted below shall used for the supply, delivery to site, installation, testing and commissioning for any additional and deductions in the quantities of materials or equipments used. All technical data shall be supported by enclosing a set of technical literature/branchure of the equipment.

1. PVC And PVC/PVC Cables

- a) Manufacturer
- b) Voltage Grade
- c) Supply and install per meter run of the following cables c/w earth continuity wire and as specified, including terminal accessories and connections.

No.	Cross Sectional Area (mm ²)	PVC			PVC/SWA/PVC		
		2 Cables	3 Cables	4 Cables	2 Cables	3 Cables	4 Cables
a.	1.5	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
b.	2.5	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
c.	4.0	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
d.	6	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
e.	10	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
f.	16	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
g.	25	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
h.	35	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
i.	50	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
j.	70	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
k.	95	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....
l.	120	RM.....	RM.....	RM.....	RM.....	RM.....	RM.....

2 BRANCH CABLE

- a) Manufacturer
- b) Voltage Grade
- c) Supply and install per meter run of the following cable complete and as specified, including terminal accessories and connection.

No.	Area (mm ²)	1- Core	2- Core	4- Core
1.	1.5		RM.....	RM.....
2.	2.5		RM.....	RM.....
3.	4.0		RM.....	RM.....
4.	6.0		RM.....	RM.....
5.	10.0	RM.....	RM.....	RM.....
6.	16.0	RM.....	RM.....	RM.....
7.	25.0	RM.....	RM.....	RM.....
8.	35.0	RM.....		

3. Earthing

- a) Manufacturer.....
- b) Country Of Manufacturer.....
- c) Supply and install per meter run, the main earth complete and as specified.
- 1) 25mm x 4mm HD Copper Tapes RM.....
 - 2) 25mm x 6.3mm HD Copper Tapes RM.....
 - 3) 40mm x 6.3mm HD Copper Tapes RM.....
- d) Supply and install per meter run, earthing leads complete and as specified.
- a) 70mm² RM.....
 - b) 95mm² RM.....
 - c) 120mm² RM.....

e) Supply and install each earth electrode complete and as specified.

1) One 2.5 meter length 16mm diameter RM.....

2) One 5.0 meter length 16mm diameter RM.....

3) One 7.5 meter length 16mm diameter RM.....

4. Lightning Protection

Piezoelectric

Normal

a) Manufacturer

b) Country Of Manufacturer.....

c) Supply and install per meter run, the air termination and down conductors complete and as specified.

1) 20mm x 3mm Annealed Copper RM.....

2) Piezoelectric Rod (1M Rod/60M COV) RM.....

3) Piezoelectric Rod (3M Rod/80M COV) RM.....

5. Fans

Item	Description	Model/Make	Price
1.	Ceiling Fan (1500mm)		
2.	Ceiling Fan (1200mm)		
3.	Wall Fan (460mm)		

6. Switches

a) Manufacturer.....

b) Country Of Manufacturer.....

c) Supply and install each switch c/w steel outlet boxes and as specified.

Item	Description	Model/Make	Price	
			Flush	Surface
1.	5A/SPN/1G, Moulded		RM.....	RM.....
2.	5A/SPN/1G, Metalclad		RM.....	RM.....
3.	10A/SPN/1G, Metalclad		RM.....	RM.....
4.	20A/SPN/1G, Metalclad		RM.....	RM.....
5.	5A/SPN/2G, Metalclad		RM.....	RM.....
6.	5A/SPN/2G, Metalclad		RM.....	RM.....
7.	10A/SPN/2G, Metalclad		RM.....	RM.....

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

8.	20A/SPN/2G,Metalclad		RM.....	RM.....
----	----------------------	--	---------	---------

7. Switch Socket Outlet

- a) Manufacturer.....
- b) Country Of Manufacturer.....
- c) Supply and install each switch c/w steel outlet boxes and as specified.

Item	Description	Model/Make	Price	
			Flush	Surface
1.	13A SPN Moulded		RM.....	RM.....
2.	13A SPN Moulded, Neon Lamp		RM.....	RM.....
3.	13A SPN Metalclad Weather Proof		RM.....	RM.....
4.	15A SPN Metalclad		RM.....	RM.....
5.	5A TPN Metalclad		RM.....	RM.....
6.	30A TPN Metalclad		RM.....	RM.....

[Tenderer must refer to Drawing for switch / switch socket legend and submit unit price for each model/make in a separate sheet not listed in this Table 1]

8. Luminaires

Supply and install each luminaires complete with support brackets, control gears, lamps and accessories and as specified, Street Lighting and Compound Lighting Flood Lighting shall include steel pole, excavation, concrete base support, holding bolts back filling.

Item	Description	Type/Model/Manufacturer	Price
1	T8 Bare channel fluorescent 610mm x 57mm fitting c/w control gears, fixing and 1 x 18 watt tube.(10W)	.....	RM.....
2	T8 Bare channel fluorescent 1220mm x 57mm fitting c/w control gears, fixing and 1 x 36 watt tube.(610W)	.....	RM.....
3	Compound lighting lantern c/w 4m hot dipped galvanized, pole control gears, fixtures and 1 x 70W LED & accessories	.....	RM.....

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

Item	Description	Type/Model/Manufacturer	Price
4	T8 Bare channel flour.fitting c/w control gears fixing and 2 x 36w tube(6W)	.....	RM.....
5	1220mm x 610mm recess parabolic mirror diffuser c/w control gear, fixing and 36w LED tube (10W)	.....	RM.....
6	1 x 18w LED recessed downlight c/w full alu. reflector	.....	RM.....
7	610 x 1200mm recess parabolic mirror diffuser c/w control gear, fixing and 2 x 18w T8 tube	.....	RM.....
8	Emergency lght self contained c/w 3hr. battery charge, 1 x 9W LED	.....	RM.....
9	Keluar Sign c/w 3hr. battery charger, 1 x 8W tube	.....	RM.....
101	Floodlight(Up Light) 200w LED	.....	RM.....

TELEPHONE INSTALLATION

1. JC9C Telephone Menhole (As Per Telekom Specification)

- | | | |
|----|---|---------|
| a) | Manufacturer | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Supply, delivery and installation as specified. | RM..... |

2. 4way 100dia HDPE Pipe

- | | | |
|----|---|----------------|
| a) | Manufacturer | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Supply, delivery and installation as specified. | RM...../M..... |

3. 4way 100dia GI Pipe

- | | | |
|----|---|----------------|
| a) | Manufacturer | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Supply, delivery and installation as specified. | RM...../M..... |

4. Internal Telephone Cable

- | | | |
|----|----------------------------------|-----------|
| a) | Manufacturer | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Standard/Technical Specification | ..... |
| d) | Supply and installation | RM...../M |

5. PVC Conduit

- | | | |
|----|-------------------------|-----------|
| a) | Manufacturer | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Supply and installation | |
| | 1. 20mm dia. | RM...../M |
| | 2. 25mm dia. | RM...../M |
| | 3. 32mm dia. | RM...../M |

STRUCTURE CABLING

1. UTP Cat 6 Cable

- a) Manufacturer
- b) Country Of Manufacturer
- c) Standard/Technical Specification
 - 1. At 100Mhz Frequency
 - 2. At 250Mhz Frequency
- d) Supply and installation RM...../M

2. UTP Cat 6 Outlet

- a) Manufacturer
- b) Country Of Manufacturer
- c) Standard/Technical Specification
- d) Supply and installation RM...../Unit

3. UTP Cat 6 Standard Patch Cord – 3 M

- a) Manufacturer
- b) Country Of Manufacturer
- c) Standard/Technical Specification
 - 1. At 100Mhz Frequency
 - 2. At 250Mhz Frequency
- d) Supply and installation RM...../M

4. Rack Mount Bracket

- a) Manufacturer
- b) Country Of Manufacturer
- c) Standard/Technical Specification
- d) Supply and installation RM...../Unit

PUBLIC ADRESSED SYSTEM

1. Power Amplifier

- a) Manufacturer/Make
- b) Country Of Manufacturer
- c) Out Power
- d) Input
- e) Impendence
- f) Frequency response
- g) S/N Ratio
- h) Distortion

2. Mixer Pre-Ampr

- a) Manufacturer/Make
- b) Country Of Manufacturer
- c) Power Requirement
- d) Input Channel
- e) Input Impendence
- f) Sensitivity
- g) Output Connection
- h) Output Level
- f) Frequency response
- g) S/N Ratio
- h) Distortion

3. CD Player

- a) Manufacturer/Make
- b) Country Of Manufacturer
- c) Digital Audio Out

	d)	Analog Audio Out	.....
4.		Digital AM/FM Tuner	
	a)	Manufacturer/Make	.....
	b)	Country Of Manufacturer	.....
	c)	Out Power	.....
	d)	Oudio Input	.....
	e)	Capacity	.....
	f)	Other Main Feature	.....
5.		Ceiling Speaker	
	a)	Manufacturer/Make	.....
	b)	Country Of Manufacturer	.....
	c)	Rated Input	.....
	d)	Line Voltage	.....
	e)	Rated Impendence	.....
	g)	Preset Impendence	.....
	h)	Frequency response	.....
	i)	SPL	.....
	j)	Dimension	.....
	k)	Weight	.....
6.		Boxed Speaker	
	a)	Manufacturer/Make	.....
	b)	Country Of Manufacturer	.....
	c)	Rated Input	.....
	d)	Line Voltage	.....
	e)	Rated Impendence	.....
	g)	Preset Impendence	.....

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

- | | | |
|----|--------------------|-------|
| h) | Frequency response | ..... |
| i) | SPL | ..... |
| j) | Dimension | ..... |
| k) | Weight | ..... |

7. Volumne Control

- | | | |
|----|-------------------------|-------|
| a) | Manufacturer/Make | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Overiding Voltage | ..... |
| d) | Attenuation/Step | ..... |

CLOSED CIRCUIT TV (CCTV)

1. Dome Camera

- | | | |
|----|--------------------------|-------|
| a) | Manufacturer/Make | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Model | ..... |
| d) | Standard/Technical Spec. | ..... |

2. Bullet Camera

- | | | |
|----|--------------------------|-------|
| a) | Manufacturer/Make | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Model | ..... |
| d) | Standard/Technical Spec. | ..... |

3. PTZ Camera

- | | | |
|----|-------------------------|-------|
| a) | Manufacturer/Make | ..... |
| b) | Country Of Manufacturer | ..... |
| c) | Model | ..... |

SCHEDULE OF UNIT RATES AND TECHNICAL DATA

- d) Standard/Technical Spec.
- e) Power Requirements

4. Spot Monitor

- a) Manufacturer/Make
- b) Country Of Manufacturer
- c) Model
- d) Standard/Technical Spec.

5. Multi Screen Monitor

- a) Manufacturer/Make
- b) Country Of Manufacturer
- c) Model
- d) Standard/Technical Spec.

6. DVR

- a) Manufacturer/Make
- b) Country Of Manufacturer
- c) Model
- d) Standard/Technical Spec.

**MECHANICAL & ELECTRICAL SERVICES
GENERAL REQUIREMENTS**

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA DEWAN BANQUET SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj)

1.0 GENERAL

This section applies to all sections of Mechanical & Electrical Systems, except as specified otherwise in the individual sections.

The work to be done under this Division of the Specifications consists of the fabrication, complete in the details of the Mechanical & Electrical Works, at the subject premises, and all works and materials incidental to the proper completion of the installation, except those portions of the work which are expressly stated to be done by others.

System provided shall be complete and operable, and shall include required accessories, fastenings and supports. One coat of primer shall be provided for all fastenings and supports.

2.0 STANDARD CODES AND REGULATION

All Works performed, and equipment and materials supplied and installed under the contract shall comply in every respect with the followings:

- 1) Uniform Building By-Laws (UBBL) 1984 including latest amendments.
- 2) Local Majlis Daerah/Majlis Perbandaran Kajang (MPKj).
- 3) Local Water Authorities.
- 4) Rules and Regulations issued by The Fire and Rescue Department of Malaysia (Jabatan Perkhidmatan Bomba dan Penyelamat)
- 5) Rules and Regulations issued by The Department of Occupational Safety and Health.
- 6) Rules and Regulations issued by Tenaga Nasional Malaysia (TNB).
- 7) Rules and Regulations issued by Telekom Malaysia Berhad (TMB).
- 8) Rules and Regulations issued by The Public Works Department (JKR).
- 9) Current Edition of the relevant Malaysian Standards.
- 10) Current Edition of the relevant British Standard/ Codes of Practice.
- 11) Current Edition of the relevant IEC Standards.
- 12) All other authorities having jurisdiction over the installation.

3.0 STANDARDS COMPLIANCE

Materials and equipment specified to conform to referenced standards and codes required proof of such conformance. Labels or listings indicating such compliance are acceptable evidence. In lieu of label or listings provide a certificate from an independent testing organisation acceptable to the S.O.

For materials and equipment whose compliance with organisation standards or specifications is not regulated by listing or label, provide manufacturer's certificate of compliance.

4.0 AUTHORITIES APPROVAL

The Contractor shall file all plans, application permits, etc., and complete all tests, forms, etc., required by the rules, regulations, etc., of all the Government Authorities having jurisdiction and such shall be completed by personnel of proper calibre, in particular, Professional Engineers, where so required.

The Contractor shall obtain and pay for all permits and inspection fees required by the Authority having jurisdiction.

The Contractor shall furnish all required Certificates of Approval.

5.0 VISIT TO SITE

The Tenderer is advised to fully acquaint himself as to the nature and extent and practicability of the Works. He shall be deemed to have included all costs in respect of access to the site, the availability and/or lack of storage, accommodation, the local regulations regarding the obstruction of public highways and any other limitations imposed by the site and its surroundings. Any claims made on the ground of lack of knowledge of site conditions will not be entertained.

6.0 MINOR PARTS NECESSARY BUT NOT MENTIONED

If neither the Specification nor the Drawings contain any particulars of minor parts the intention to include which nevertheless clearly to be inferred, or minor parts which are obviously necessary for the completion of Work under the Contract, all such parts shall be supplied and executed within the Contract without extra charge.

7.0 DISCREPANCIES IN DOCUMENTS

The Drawings and Specifications are intended to be mutually explanatory and complete, but all Works called for by one, even if not by the other shall be fully executed. If the Contractor finds any discrepancies between the Specification and

the Drawings he shall refer them to the S.O. for decisions. Dimensions shall not be scaled unless permission is given in writing by the S.O.

8.0 INTENT OF CONTRACT

It is the responsibility of the Contractor to complete an installation which satisfied the minimum performance standards and requirements. The specified minimum requirements as listed under subsequent sections of this Specification are the least standards of performance acceptable and shall be deemed fixed, agreed and unalterable except by written consent of the S.O.

9.0 INTENT OF DRAWINGS AND SPECIFICATIONS

It is the intent of the Specification and Drawings to call for finalised work, tested, and ready for operation. Any apparatus, appliance, materials, services which will be necessary to make the work complete and perfect in all respect and ready for operation, even if not particularly specified, shall be furnished, delivered and installed without any additional expenses to the Employer or the Engineer.

10.0 CODE REQUIREMENTS

All works performed under this Contract shall be completed with all necessary equipment for its satisfactory operation, control, maintenance and safety under all respects with the regulations, by-laws and requirements of :-

- 1) Respective Majlis Daerah/Majlis Perbandaran
- 2) Suruhanjaya Perbadanan Air Negara (SPAN)
- 2) Syarikat Air Selangor (SYABAS)
- 3) Uniform Building By-Laws (UBBL)
- 4) The Public Works Department (JKR)
- 5) The Municipal Engineers
- 6) Department of Occupational Safety and Health
- 7) The Fire and Rescue Department
- 8) The Ministry of Health, Malaysia
- 9) Indah Water Konsortium (IWK)
- 10) Telekom Malaysia Berhad
- 11) Tenaga Nasional Berhad
- 12) All other authorities having jurisdiction over the installation of equipment in the locality

The Work and all materials shall also be strictly in accordance with the current editions of all applicable British Standards whether referred to in the specification or not or alternatively, any other Malaysia Standard which is acceptable to local authorities and the Engineers relating to the design, manufacture or installation of the above mentioned equipment.

The Contractor shall, at all times throughout the course of the Contract, comply with the requirements of this Clause. Should there be contained in the Specification and/or Drawings something inconsistent with the regulations or the above bodies, the Contractor shall draw such discrepancy and/or inconsistency to the attention of the Engineers and obtain a further instruction from him before proceeding with any related work.

All materials furnished shall be new and of first class quality. Where quantities and sizes or other requirements on the Drawings or in the Specifications are in excess of Code requirements, the Contractor shall be bound by the information indicated on the Drawings and Specifications.

11.0 PERMITS AND FEES

The Contractor shall, give all necessary notices, obtain all permits, perform all tests, and pay all fees and other costs in connection with this work including filing all necessary plans and obtaining all necessary approvals of any Statutory Authority or Departments having jurisdiction over this Work. He shall obtain all required plans and Certificates of Inspection for this works and deliver three copies of the same to the Engineers before Practical Completion.

Where the Contractor has proposed installation or works deviating from the Engineer's design or his own design he shall provide professional Engineer's Certification of compliance of the installations to the relevant authorities requirements codes or standards specified herein.

12.0 LUMP SUM PRICE

The Tender Price for the Service installation shall be a Lump Sum price and no claims in respect of fluctuations in the cost of materials/equipment, insurance, freight, transportation, authorities' fees, labour and charges incurred for manufacture, delivery to site and/or storage, erection, testing, commissioning and maintenance of the Contract Works, will be considered.

13.0 IMPORTED MATERIALS

The Contractor's attention is drawn to the fact that certain materials or goods required for the Works may not be readily available by local purchase. It is the Contractor's responsibility to have all materials and goods on the site for embodying the works as when required. When materials or goods as specified cannot be purchased in the local market, the Contractor shall immediately on official order place orders for such materials and goods with firm delivery dates for the supplies to comply with the construction programmes and in order that works may be completed within the Contract period.

The Contractor shall allow for any import duty, excise and all forms of taxation on any goods or materials supplied irrespective of the time and period of imposition,

unless an Enactment of the Parliament provides otherwise, and such provisions are directly applicable to this contract.

In this event, adjustment upwards or downwards will only be applied to the particular bill rate affected.

14.0 VARIATIONS

Variations may only be made by instruction duly lodged in writing and signed by the S.O. or S.O. Representative.

Where variations are subject to a Schedule of Rates the Contractor shall measure the cost of the variations and submit all details as necessary to the Engineers to check such variations in price prior to approval.

The Contractor shall, within seven (7) days from the receipt of a variation request, provide the Engineers with a detailed quotation to enable such variation to be measured, valued and agreed with the Engineers. The Contractor shall lodge a complete set of variations and subject to the S.O. or S.O. Representative's signature, these shall be a basis of recommendation/ approval for payment.

Should variations or changes be required to which the Schedule of Rates cannot be applied, the Contractor shall apply in writing for a variation covering the item concerned on a prescribed form, in triplicate. He may not proceed with the item under consideration until consent is obtained from the S.O. or his representative. Failure to observe these instructions may result in non-payment of claims for such variation.

In cases where it is necessary for the works associated with the variation to proceed without delay the S.O. may, on receipt of an acceptable verbal quotation from the Contractor, give authority for the works to proceed by providing an appropriate instruction. This method of processing variation will be kept to a minimum.

The Contractor shall ascertain all specification and dimensions prior to ordering and manufacture of materials or carrying out/any portion of the work. He shall be deemed to have informed himself of the exact working conditions thereof. Any price variations caused by neglecting of this provision will not be considered.

15.0 EQUIPMENT AND MATERIALS APPROVAL

Within fourteen (14) days after the official order, the Contractor shall submit for approval a list of manufacturer's equipment and materials proposed for the work.

The Contractor's intent to use the exact make specified does not relieve him of the responsibility of submitting such a list.

Each item of equipment shall be standard factory product of an established, reputable and approved manufacturer. All similar equipment shall preferably be of the same manufacture unless otherwise specified.

Where manufacturer's catalogue numbers or types are specified or shown on the drawings, they are generally intended to be used as a guide, and are not

intended to take precedence over the basic duty and performance specified or shown. In all cases, the duty with the particular characteristics of the equipment offered for approval shall be verified.

Where no alternative materials are noted in the specifications or on drawings, and where the words 'equal', 'approved equal, as approved', etc. do not appear, the exact make and model specified must be furnished and installed.

The Contractor must submit for the approval of the S.O., prior to commencing installation, a sample of all accessories, fittings and apparatus which it is proposed to employ in the work, and only such items as have been approved may be installed. Failure to comply with this provision will result in the unconditional rejection of such items when inspected on site. Where directed by the Engineers,

'approved' samples shall be kept on site in a sample room provided by the Contractor.

No alterations will be permitted in the lists of manufacturer's and suppliers submitted by the Contractor without the written approval of the S.O.

Should the Contractor install materials and/or equipment other than by the approved manufacturer or supplier such items may be rejected on site.

All such rejected items shall be removed from the site as soon as possible and be replaced by approved items at no cost to the Employer. The replacement of any such items shall not constitute grounds for any variations or for any extension of time.

The Contractor shall take every care to avoid damage to building, fittings, surface, and equipment in the premises and any damage caused by his staff and/or works of his Contract shall be his responsibility and shall be made good at his expenses.

16.0 TENDER DRAWINGS

The tender drawings, diagrams and details shall not be used for setting out until all relevant dimensions of existing structures and other completed works have been checked on site by the Contractor. Two (2) copies of the drawings will be supplied free of charge to the Contractor.

It is to be understood that the positions of equipment shown on the original drawings are approximately correct at the time of tendering, but the exact locations of all equipment must be checked against the Architectural drawings and the site measurements.

17.0 SHOP DRAWINGS

The Contractor shall provide at his own expenses within two (2) weeks of acceptance of the Tender, Six (6) sets of prints of shop drawings to the Engineer for approval.

In preparing shop drawings, the Contractor shall check the drawings of all trades the actual site conditions. Wherever additional offsets are required in the piping, ducting, conduits, etc., to allow for installation in the actual available space, the offsets shall be shown on drawings and installed on the job at no additional cost. All drawings so submitted shall be uniform metric sizes (A0, A1, A2, A3, A4).

After approval, the Contractor shall submit to the Engineers, to suit the progress of works, drawings showing builder's work required for his installations such as :-

- a) All roof, wall and floor penetrations
- b) Plinth details for equipment
- c) Fixings for supports, fittings, platforms sleeves, inserts etc.

The Engineers will not check all dimensions shown in the shop drawings. Approval is given basically for layout and method of installation proposed by the Contractor.

During the execution of the work a set of approved workshop drawings shall be made available on site for the duration of the Contract period.

The workshop drawings shall show :-

- i) The construction, size, arrangement, operating clearance, performance characteristics, and capacity of all specialties together with sufficient engineering data to indicate substantial compliance with the specification.
- ii) Sleeves, inserts, outlets, and proposed conduiting, cable trays, piping, and ductwork installation layouts, particularly in areas where these are to be installed adjacent to the work of other trades or where structural or architectural considerations may make installation difficult.
- iii) Detailed layout drawings of plant rooms, minimum scale 1:20 showing all valves (manual and automatic, including spindles and hand wheels) control equipment, and electrical isolators.
- iv) Adequate section drawings for the Works to be installed.

Approval of the workshop drawings shall not relieve the Contractor from his responsibility in ensuring correct dimensions for the installations, include all necessary component's required to complete the installations as intended.

18.0 AS-BUILT DRAWINGS

From the commencement of site Work the Contractor shall employ competent draughtsmen on site to keep record of all deviations and changes from the workshop drawings and shall mark on a set of prints accurate record of all work as actually installed.

During the progress of the Work the Contractor shall have recorded on transparency prints, the installations as actually built, and shall submit these to the

Engineer. Upon approval by the S.O./Engineer the Contractor shall provide at his own expense:

- i) Five (5) sets of blue prints (A1 size), each set with hard cover bound
- ii) One (1) set of linen prints (A1 size)
- iii) One (1) set of digital copy in CD

The Contractor shall retain one copy of each of the 'As-Built' Drawings for use by him during the Defects Liability Period.

19.0 ACCOMMODATION AND SERVICE

The Contractor shall include in his tender all necessary provisions and works to complete his installations to perform as specified.

The Contractor to note that the cost for electricity consumed during the testing and commissioning of his installation shall be borne by him.

20.0 OBVIOUS WORK

All parts and works which are necessary for the satisfactory operation of the systems are to be supplied and installed by the Contractor whether specifically mentioned herein or not and shall be deemed to have been included in this Contract Price. If the Contractor finds any discrepancy therein, he shall immediately refer in writing to the Engineer who shall then decide what to follow. Figures dimensions shall be taken in preference to scale drawings.

21.0 SETTING OUT, CUTTING AND MAKING GOOD

The Contractor shall inform the Engineer and set out at the earliest opportunity the position and sizes of all holes and wall openings necessary for the passage of the ducts, pipes and other services throughout the building.

All sleeves and inserts required to be built in before roofs, walls, floors, etc. are built shall be furnished and located by the Contractor. The Contractor shall be held responsible for all costs incurred initially incorrectly sized, positioned and/or omitted by him.

Contractor shall be responsible for providing accurate site marks sufficient to locate his equipment. The Contractor shall make good pipe penetrations. The Contractor shall ensure that all electrical conduits and cables are kept a safe distance away from all ductwork and pipes, both hot and cold, and that ductwork does not foul other services.

22.0 DEFECTS LIABILITY

The Contractor shall be responsible for the correction of any defects, or the replacement of faulty equipment, and shall make good all deficiencies in the

works of this installation, at his own expense for a period as specified in the Conditions of Contract (from the Date of Practical Completion).

In so far as any defects and/or failures shall occur within or shall arise out of the works of this contract, and notwithstanding acceptance of the works by the Employer, the Contractor shall, during the defects liability period remain responsible to the Employer.

Should the Contractor fail to make good any defects, within a reasonable time after receipt of a written Notice of Defects from the Engineer, the S.O. may employ and pay other persons to execute the remedy work and all costs incurred in connection therewith shall be borne by the Contractor.

If any defects in the opinion of the Engineer is impracticable or inconvenient to remedy the Engineer will ascertain the diminution in value of the work due to the

existence of such defects, and deduct the amount of such diminution from any monies due to the Contractor under this Contract.

23.0 PATENT RIGHTS

The Contractor shall fully indemnify the S.O. and Engineer against all claims, actions or expenses arising from or incurred by reason or infringement of patent rights, trademarks, copyrights or other protected means in respect of any machine, materials, plants, method or system of using, working or arrangement supplied and employed by him.

All royalties and payments shall be included by the Contractor in his Tender Price and shall be paid by him to whom they may be due.

In the event of any claim being made or action brought against the Employer and Engineer in respect of any such matters aforesaid, the Contractor shall be immediately notified thereof, and he shall, at his sole expense, conduct all negotiations for the settlement of the same, or any litigation that may arise therefrom.

24.0 INSPECTION AND TESTS

Every facility is to be afforded to the S.O./Engineer to inspect and/or test work in progress. The S.O./Engineer reserves the right to reject plant and equipment found unsatisfactory in service.

Tests shall be carried out by the Contractor during installation to ensure that the equipment installed is capable of carrying out the guarantee of performance included in the Contract.

All instruments, power and labour required for carrying out these tasks shall be the Contractor's responsibility.

Such tests shall be carried out to the instruction of, and in the presence of the Engineer. The rejection of any work under this Clause will not constitute grounds for an application for extension of time.

25.0 FAILURE TO ACHIEVE PERFORMANCE

Should the whole or any part of the work fail to produce on test the performance guaranteed in the Contract, the Contractor may be allowed to carry out at his own cost modifications as may be required to improve the performance provided it does not effect the hand-over date.

Should the installation be unable to produce the guaranteed performance after approved modifications, the S.O/S.O. Representative may reject the whole or any part of it.

The Contractor shall at his own cost dismantle and remove from site the whole or any part of work which has been rejected and will be required to replace it with an improved alternative or to reimburse the Employer for the cost of such replacement carried out by others.

26.0 OPERATION AND MAINTENANCE INSTRUCTIONS & MANUALS

One (1) month before expected date of completion, the Contractor is required to submit draft copy of the manuals for Engineer's comment.

Within two (2) weeks on issuing the Certificate of Practical Completion of the Work, the Contractor shall supply five (5) sets of hard bound copies of approved, neatly set out, operating and maintenance instructions covering all plants installed under or associated with this Specification. The instructions shall also clearly indicate in correct sequence, the operation and function of all plant and equipment under both automatic and manual control and shall give complete information on maintenance required for each item of the equipment. This information shall be supplemented by all necessary plant layout drawings of reasonable scale, diagrammatic layouts and circuits and wiring diagrams. The Contractor is also expected to submit digital copy of the manuals.

27.0 MAINTENANCE

The Contractor shall allow for and furnish comprehensive maintenance and service of equipment and machinery installed under this Contract for a period as specified in the Conditions of Contract during the Defects Liability Period.

The maintenance period shall commence from the date of issuance of a Certificate of Practical Completion by the S.O.

If any maintenance works are not carried within a reasonable time, the Employer may proceed to do the work at the Contractor's risk and expense, but without in any way relieving the Contractor of his responsibility under the Contract.

Maintenance of services and equipment shall be carried out on visits to the site at regular monthly intervals and the Contractor shall submit for approval the proposed maintenance programme relevant to the Contract Works.

28.0 TUITION

The Contractor shall provide the service of competent persons to instruct the Employer's plant operation of all equipment and whole systems for minimum period of eight weeks during the initial running of the system.

29.0 SITE INSTRUCTIONS

The Contractor shall make good, rectify unsatisfactory work within seven (7) days of receipt of instructions from the Engineer or within such reasonable time as may in accordance with trade practice. Failure to comply with instructions within reasonable time will result in forfeiture of the right of further payment and furthermore the S.O./S.O. Representative shall have the right to appoint others to carry out such work at the Sub-contractor's expense.

30.0 SITE SUPERVISION FOR MECHANICAL WORKS

The Contractor shall provide on the site during the progress of the Contract full time qualified and competent engineers and supervisors fully experienced in the

type of work being carried out. The Contractor's engineers and supervisors names and credentials shall be submitted to the S.O. for approval.

The Contractor's engineers shall be authorised to receive and implement instructions and he shall be assisted by such other qualified and competent supervision staff as may be deemed necessary to secure satisfactory execution of the Contract Works.

Should at any time, the S.O. withdraw approval of any Supervision staff employed by the Contractor, such staff shall be removed from the site and replaced with other personnel approved by the S.O.

The Contractor shall keep at the site office a list of his employed work force, including engineers, supervisors, foreman, tradesmen and labourers. A daily record showing the job allocation of the work force shall be available at site.

31.0 LIAISON WITH OTHER CONTRACTORS

The Contractor's attention is drawn to the fact that there might be other contractors working at the works. The Contractor is to arrange and carry out the works so as to cause no interference or interruption to other contractors working at the works.

32.0 APPROVAL

Approval for all works, material, finish product and other requirement related to the Contract shall only be given by the Superintending Officer (S.O).

33.0 QUANTITIES IN BILL OF QUANTITY

All quantities in the Bill of Quantities are provisional and subject to the re-measurement after all of the works have been completed.

DOKUMEN MEJA TAWARAN

DRAWING LIST

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj).

LUKISAN ARKITEK		
BIL	TAJUK LUKISAN	NO. LUKISAN
1	LIST OF DRAWING	MPKJ 52/ PPJ/ 2019/ 001
2	KEY PLAN LOCATION PLAN SITE PLAN SCHEDULE OF AREA & FINISHES	MPKJ 52/ PPJ/ 2019/ 002
3	DEMOLISH LAYOUT PLAN	MPKJ 52/ PPJ/ 2019/ 003
4	GROUND FLOOR PLAN	MPKJ 52/ PPJ/ 2019/ 004
5	1ST FLOOR PLAN	MPKJ 52/ PPJ/ 2019/ 005
6	LOWER ROOF PLAN	MPKJ 52/ PPJ/ 2019/ 006
7	ROOF PLAN	MPKJ 52/ PPJ/ 2019/ 007
8	SECTION A-A	MPKJ 52/ PPJ/ 2019/ 008
9	SECTION B-B & SECTION C-C	MPKJ 52/ PPJ/ 2019/ 009
10	SECTION D-D & SECTION E-E	MPKJ 52/ PPJ/ 2019/ 010
11	FRONT ELEVATION REAR ELEVATION	MPKJ 52/ PPJ/ 2019/ 011
13	RIGHT ELEVATION & LEFT ELEVATION	MPKJ 52/ PPJ/ 2019/ 012
14	FLOOR FINISHES PLAN	MPKJ 52/ PPJ/ 2019/ 013
15	REFLECTED CEILING PLAN	MPKJ 52/ PPJ/ 2019/ 014
16	L-BOX CEILING PLAN 1&2, SECTION A-A	MPKJ 52/ PPJ/ 2019/ 015
17	DOOR SCHEDULE 1	MPKJ 52/ PPJ/ 2019/ 016
18	DOOR SCHEDULE 2	MPKJ 52/ PPJ/ 2019/ 017
19	DOOR SCHEDULE 3	MPKJ 52/ PPJ/ 2019/ 018
19	WINDOW SCHEDULE 1	MPKJ 52/ PPJ/ 2019/ 019
20	WINDOW SCHEDULE 2	MPKJ 52/ PPJ/ 2019/ 020
21	STAIRCASE 1 DETAIL - GROUND FLOOR PLAN - 1ST FLOOR PLAN	MPKJ 52/ PPJ/ 2019/ 021
22	STAIRCASE 1 DETAIL - FRONT ELEVATION - SECTION A-A SECTION B-B - DETAIL	MPKJ 52/ PPJ/ 2019/ 022
23	STAIRCASE 2 DETAIL - GROUND FLOOR PLAN - 1ST FLOOR PLAN - SECTION A-A - SECTION B-B - DETAIL	MPKJ 52/ PPJ/ 2019/ 023
24	STAIRCASE 3 DETAIL - GROUND FLOOR PLAN - 1ST FLOOR PLAN - SECTION A-A - SECTION B-B - DETAIL	MPKJ 52/ PPJ/ 2019/ 024

CADANGAN MEROBOH DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj).

LUKISAN ARKITEK		
BIL	TAJUK LUKISAN	NO. LUKISAN
25	STAIRCASE 4 DETAIL	MPKJ 52/ PPJ/ 2019/ 025
25	STAIRCASE 4 DETAIL - GROUND FLOOR PLAN - 1ST FLOOR PLAN - SECTION A-A - SECTION B-B - DETAIL	MPKJ 52/ PPJ/ 2019/ 025
26	STAIRCASE 5 DETAIL - GROUND FLOOR PLAN - 1ST FLOOR PLAN - SECTION A-A - SECTION B-B - DETAIL	MPKJ 52/ PPJ/ 2019/ 026
27	STAIRCASE 6 DETAIL - GROUND FLOOR PLAN - 1ST FLOOR PLAN - SECTION A-A - SECTION B-B - DETAIL	MPKJ 52/ PPJ/ 2019/ 027
28	SANITARY FITTING SCHEDULE	MPKJ 52/ PPJ/ 2019/ 028
29	MEN TOILET DETAIL	MPKJ 52/ PPJ/ 2019/ 029
30	WOMEN TOILET DETAIL	MPKJ 52/ PPJ/ 2019/ 030
32	OKU WOMEN TOILET DETAIL	MPKJ 52/ PPJ/ 2019/ 032
33	VIP TOILET DETAIL	MPKJ 52/ PPJ/ 2019/ 033
34	BACK STAGE PREP. AREA DETAIL	MPKJ 52/ PPJ/ 2019/ 034
35	SERVERY DETAIL - 1ST FLOOR PLAN - SECTION A-A	MPKJ 52/ PPJ/ 2019/ 035
36	SERVERY AREA DETAIL - SECTION B-B	MPKJ 52/ PPJ/ 2019/ 036
37	TYPICAL SECTION A-A	MPKJ 52/ PPJ/ 2019/ 037
38	TYPICAL SECTION B-B	MPKJ 52/ PPJ/ 2019/ 038
39	COPING, ROOF EAVE , PLASTER CEILING & MANHOLE DETAIL PEDESTRIAN WALKWAY DETAIL	MPKJ 52/ PPJ/ 2019/ 039
40	ACOUSTIC WALL DETAIL	MPKJ 52/ PPJ/ 2019/ 040
41	INTERNAL WASH AREA DETAIL	MPKJ 52/ PPJ/ 2019/ 041
42	RC GUTTER , ROOF EAVE DETAIL & UPVC GUTTER DETAIL	MPKJ 52/ PPJ/ 2019/ 042
43	ROOF DETAIL -RIDGE	MPKJ 52/ PPJ/ 2019/ 043
44	ROOF DETAIL -RIDGE,GABLE,FLASHING & VENT PIPE UPPER ROOF	MPKJ 52/ PPJ/ 2019/ 044
45	ROOF DETAIL -VALLEY GUTTER	MPKJ 52/ PPJ/ 2019/ 045
46	ROOF SERVICE MANHOLE	MPKJ 52/ PPJ/ 2019/ 046

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj).

LUKISAN ARKITEK		
BIL	TAJUK LUKISAN	NO. LUKISAN
47	LOBBY DETAIL - 1ST FLOOR PLAN	MPKJ 52/ PPJ/ 2019/ 047
48	LOBBY DETAIL - FRONT ELEVATION	MPKJ 52/ PPJ/ 2019/ 048
49	CLC WALL PANEL & RAILING DETAIL	MPKJ 52/ PPJ/ 2019/ 049
50	DROP OFF COLUMN DETAIL	MPKJ 52/ PPJ/ 2019/ 050
51	STAGE DETAIL - 1ST FLOOR PLAN	MPKJ 52/ PPJ/ 2019/ 051
52	STAGE DETAIL - SECTION A-A	MPKJ 52/ PPJ/ 2019/ 052
53	STAGE DETAIL - ELEVATION	MPKJ 52/ PPJ/ 2019/ 053
54	STAGE DETAIL - STAIRCASE	MPKJ 52/ PPJ/ 2019/ 054
55	CORRIDOR DETAIL - 1ST FLOOR PLAN & SECTION A-A	MPKJ 52/ PPJ/ 2019/ 055
56	CORRIDOR DETAIL - 1ST FLOOR PLAN & SECTION B-B	MPKJ 52/ PPJ/ 2019/ 056
57	RAMP DETAIL - GROUND & 1ST FLOOR PLAN	MPKJ 52/ PPJ/ 2019/ 057
58	RAMP DETAIL - SECTION A-A	MPKJ 52/ PPJ/ 2019/ 058
59	RAMP DETAIL - SECTION B-B	MPKJ 52/ PPJ/ 2019/ 059
60	RAMP DETAIL - FRONT ELEVATION	MPKJ 52/ PPJ/ 2019/ 060
61	PUMP HOUSE DETAIL - GROUND FLOOR & ROOF PLAN	MPKJ 52/ PPJ/ 2019/ 061
62	PUMP HOUSE DETAIL - SECTION A-A & B-B	MPKJ 52/ PPJ/ 2019/ 062
63	PUMP HOUSE DETAIL - ELEVATION	MPKJ 52/ PPJ/ 2019/ 063
64	GUARD HOUSE DETAIL - SITE PLAN	MPKJ 52/ PPJ/ 2019/ 064
65	GUARD HOUSE DETAIL - GROUND FLOOR & ROOF PLAN	MPKJ 52/ PPJ/ 2019/ 065
66	GUARD HOUSE DETAIL - SECTION A-A & B-B	MPKJ 52/ PPJ/ 2019/ 066
67	GUARD HOUSE DETAIL - ELEVATION	MPKJ 52/ PPJ/ 2019/ 067
68	FRONT GATE DETAIL- GROUND FLOOR PLAN & ELEVATION	MPKJ 52/ PPJ/ 2019/ 068
69	SIGNBOARD DETAIL- LOCATION PLAN, SECTION & ELEVATION	MPKJ 52/ PPJ/ 2019/ 069
70	SECURITY FENCE DETAIL- LOCATION PLAN, SECTION & ELEVATION	MPKJ 52/ PPJ/ 2019/ 070
71	PROJECT SIGNBOARD DETAIL- LOCATION PLAN, SECTION & ELEVATION	MPKJ 52/ PPJ/ 2019/ 071
72	GATE & HOARDING DETAIL- LOCATION PLAN, SECTION & ELEVATION	MPKJ 52/ PPJ/ 2019/ 072

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj).

LUKISAN STRUKTUR		
BIL	TAJUK LUKISAN	NO. LUKISAN
1	FOUNDATION LAYOUT PLAN	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/01
2	TYPICAL FOOTING DETAILS, FOOTING SCHEDULE AND COLUMN SCHEDULE AND LIFT SHART DETAIL.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/02
3	GROUND FLOOR PLAN AND TYPICAL NON-SUSPENDED GROUND SLAB DETAILS.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/03
4	FIRST FLOOR PLAN AND TYPICAL R.C. STEP DETAIL.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/04
5	ROOF FLOOR PLAN, DETAIL OF R.C. INTERMEDIATE BEAM/LINTOL AND R.C. STIFFENER DETAIL	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/05
6	TYPICAL STAIRCASE DETAIL AND TYPICAL RAMP DETAIL.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/06
7	ROOF TRUSS LAYOUT PLAN AND STEEL CONNECTION DETAIL.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/07
8	TRUSS DETAIL, TYPICAL PURLIN CONNECTION DETAIL AND TYPICAL TIE ROD DETAIL FOR PURLINS.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/08
9	GROUND BEAM DETAIL (1)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/09
10	GROUND BEAM DETAIL (2)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/10
11	GROUND BEAM DETAIL (3)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/11
12	GROUND BEAM DETAIL (4) AND RAMP BEAM DETAIL.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/12
13	FIRST AND SECOND ROOF BEAM DETAIL (1)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/13
14	FIRST AND SECOND ROOF BEAM DETAIL (2)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/14
15	FIRST AND SECOND ROOF BEAM DETAIL (3)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/15
16	FIRST AND SECOND ROOF BEAM DETAIL (4)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/16
17	FIRST AND SECOND ROOF BEAM DETAIL (5)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/17
18	FIRST AND SECOND ROOF BEAM DETAIL (6)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/18
19	FIRST AND SECOND ROOF BEAM DETAIL (7) AND ROOF BEAM DETAIL (1).	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/19
20	ROOF BEAM DETAIL (2)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/20
21	ROOF BEAM DETAIL (3)	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/21
22	ROOF BEAM DETAIL (4) AND SLAB SECTION (1).	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/22
23	SLAB SECTION (2) AND GUARD HOUSE STRUCTURE DETAIL.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/23
24	R.C PLINTH FOR BOMBA WATER TANK AND CONCRETE BASE FOR AIRCOOLED CHILLER DETAIL.	ARZEC/S2020/MPKJ/DBBANGI/SEK.2/24

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKj).

LUKISAN INFRASTRUKTUR		
BIL	TAJUK LUKISAN	NO. LUKISAN
	<u>EARTHWORKS</u>	
1	KEY PLAN, LOCATION PLAN AND SITE PLAN	ARZEC/EW2020/MPKJ/DBBANGI/SEK.2/01
2	EARTHWORKS LONGITUDINAL SECTION	ARZEC/EW2020/MPKJ/DBBANGI/SEK.2/02
3	SILT TRAP DETAILS, WASH THROUGH, TYPICAL DETAIL CUT AND FILL SLOPE, TEMPORARY EARTH DRAIN AND HEAVY DUTY INTERLOCKING PAVERS DETAIL.	ARZEC/EW2020/MPKJ/DBBANGI/SEK.2/03
	<u>ROAD & DRAINAGE</u>	
1	KEY PLAN, LOCATION PLAN AND SITE PLAN	ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/01
2	TYPICAL DRIVEWAY SECTION, DETAILS OF DRAIN, SUMP DETAILS, GALVANISED IRON STEP, M.S GRATING WITH HINGES FOR SUMP, AND PIPE CULVERT DETAIL	ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/02
3	ENTRANCE CONCRETE SLAB DETAIL, HEAVY DUTY GALVANISED, GRATING DETAIL, CAST IN SITU ROAD KERB DETAIL, OUTLET FOR ROAD KERB AND ROAD MARKING DETAIL	ARZEC/RD2020/MPKJ/DBBANGI/SEK.2/03
	<u>SEWERAGE</u>	
1	KEY PLAN, LOCATION PLAN AND SITE PLAN	ARZEC/SW2020/MPKJ/DBBANGI/SEK.2/01
2	SEWERAGE LONGITUDINAL SECTION, BREAK JOINTS TO CONCRETE CRADLE, SEWER PIPE JUNCTION CONNECTIONS DETAIL, SEWER PIPE BEDDING DETAIL, AND BACKDROP DETAIL.	ARZEC/SW2020/MPKJ/DBBANGI/SEK.2/02
	<u>WATER SUPPLY</u>	
1	KEY PLAN, LOCATION PLAN AND SITE PLAN	ARZEC/WS2020/MPKJ/DBBANGI/SEK.2/01
2	BULK METER DETAIL, PIPE BEDDING DETAILS AND TYPICAL ARRANGEMENT OF PILLAR HYDRANT.	ARZEC/WS2020/MPKJ/DBBANGI/SEK.2/02

CADANGAN MEROBOK DEWAN SEDIADA DAN MEMBINA SEBUAH DEWAN BANQUET DI SEKSYEN 2, DI ATAS LOT 51183, JALAN 2/1Q, BANDAR BARU BANGI, MUKIM KAJANG, DAERAH HULU LANGAT, SELANGOR DARUL EHSAN UNTUK MAJLIS PERBANDARAN KAJANG (MPKJ).

LUKISAN MEKANIKAL DAN ELEKTRIKAL		
BIL	TAJUK LUKISAN	NO. LUKISAN
A	<u>INTERNAL COLD WATER SUPPLY</u>	
1	PELAN KUNCI, PELAN LOKASI DAN PELAN TAPAK	SJE/MPKJ/DB-BBB/2021/CW-01
2	GROUND FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/CW-02
3	1ST ROOF PLAN	SJE/MPKJ/DB-BBB/2021/CW-03
4	ROOF PLAN	SJE/MPKJ/DB-BBB/2021/CW-04
5	PIPING SCHEMATIC DIAGRAM	SJE/MPKJ/DB-BBB/2021/CW-05
6	STANDARD DETAILS	SJE/MPKJ/DB-BBB/2021/CW-06
7	SITE PLAN/GROUND FLOOR PLAN ROOF PLAN PIPING SCHEMATIC DIAGRAM (PONDOK PENGAWAL)	SJE/MPKJ/DB-BBB/2021/CW-01
B	<u>SANITARY PLUMBING INSTALLATION</u>	
7	PELAN KUNCI, PELAN LOKASI DAN PELAN TAPAK	SJE/MPKJ/DB-BBB/2021/SP-01
8	GROUND FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/SP-02
9	1ST FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/SP-03
10	ROOF PLAN	SJE/MPKJ/DB-BBB/2021/SP-04
11	PIPING SCHEMATIC DIAGRAM	SJE/MPKJ/DB-BBB/2021/SP-05
12	STANDARD DETAILS	SJE/MPKJ/DB-BBB/2021/SP-06
13	SITE PLAN/GROUND FLOOR PLAN ROOF PLAN PIPING SCHEMATIC DIAGRAM (PONDOK PENGAWAL)	SJE/MPKJ/DB-BBB/2021/SP-01
C	<u>AIRCONDITIONING & MECHANICAL VENTILATION SYSTEM</u>	
12	PELAN KUNCI, PELAN LOKASI DAN PELAN TAPAK	SJE/MPKJ/DB-BBB/2021/AC-01
13	GROUND FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/AC-02
14	1ST FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/AC-03
15	REFLECTED CEILING PLAN	SJE/MPKJ/DB-BBB/2021/AC-04
16	ROOF PLAN	SJE/MPKJ/DB-BBB/2021/AC-05
17	SECTION B-B, SECTION F-F	SJE/MPKJ/DB-BBB/2021/AC-06
18	STANDARD DETAIL 1	SJE/MPKJ/DB-BBB/2021/AC-07
19	STANDARD DETAIL 2	SJE/MPKJ/DB-BBB/2021/AC-08

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LUKISAN MEKANIKAL DAN ELEKTRIKAL		
BIL	TAJUK LUKISAN	NO. LUKISAN
D	<u>FIRE PROTECTION SYSTEM</u>	
20	PLAN KUNCI, PELAN LOKASI DAN PELAN TAPAK	SJE/MPKJ/DB-BBB/2021/FP-01
21	GROUND FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/FP-02
22	1ST FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/FP-03
23	REFLECTED CEILING PLAN	SJE/MPKJ/DB-BBB/2021/FP-04
24	ROOF PLAN	SJE/MPKJ/DB-BBB/2021/FP-05
25	FIRE ALARM CONTROL PANEL SCHEMATIC DIAGRAM	SJE/MPKJ/DB-BBB/2021/FP-06
26	PIPING SCHEMATIC DIAGRAM	SJE/MPKJ/DB-BBB/2021/FP-07
27	SPRINKLER PIPING SCHEMATIC DIAGRAM	SJE/MPKJ/DB-BBB/2021/FP-08
28	STANDARD DETAILS	SJE/MPKJ/DB-BBB/2021/FP-09
29	PUMP HOUSE - GROUND FLOOR PLAN, ROOF PLAN, SCHEDULE OF PUMP	SJE/MPKJ/DB-BBB(PH)/2021/FP-01
G	<u>LIFT INSTALLATION</u>	
30	GROUND FLOOR	SJE/MPKJ/DB-BBB/2021/L-01
31	1ST FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/L-02
32	SECTION VIEW, STRUCTURE OPENING & LIFT SPECIFICATION.	SJE/MPKJ/DB-BBB/2021/L-03
H	<u>ELECTRICAL INSTALLATION</u>	
33	PELAN KUNCI, PELAN LOKASI DAN PELAN TAPAK	SJE/MPKJ/DB-BBB/2021/EL-01
34	GROUND FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/EL-02
35	1ST ROOF PLAN	SJE/MPKJ/DB-BBB/2021/EL-03
36	REFLECTED CEILING PLAN	SJE/MPKJ/DB-BBB/2021/EL-04
37	ROOF PLAN	SJE/MPKJ/DB-BBB/2021/EL-05
38	REAR ELEVATION & LIGHTNING DETAILS	SJE/MPKJ/DB-BBB/2021/EL-06
39	MSB SCHEMATIC DIAGRAM	SJE/MPKJ/DB-BBB/2021/EL-07
40	WIRING SCHEMATIC DIAGRAM (FP-1,SSB-1,DB-AC)	SJE/MPKJ/DB-BBB/2021/EL-08
41	WIRING SCHEMATIC DIAGRAM (DB-GF & DB-1)	SJE/MPKJ/DB-BBB/2021/EL-09

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LUKISAN MEKANIKAL DAN ELEKTRIKAL		
BIL	TAJUK LUKISAN	NO. LUKISAN
H	<u>ELECTRICAL INSTALLATION (Cont'd)</u>	
42	WIRING SCHEMATIC DIAGRAM (DB-HL & DB-HP)	SJE/MPKJ/DB-BBB/2021/EL-10
43	COMPACT SUBSTATION CONCRETE PLINTH DETAILS	SJE/MPKJ/DB-BBB/2021/EL-11
44	TNB METER KIOSK DETAILS	SJE/MPKJ/DB-BBB/2021/EL-12
45	SITE PLAN/GROUND FLOOR PLAN ROOF PLAN WIRING SCHEMATIC DIAGRAM (PONDOK PENGAWAL)	SJE/MPKJ/DB-BBB(GH-PR)/2021/EL-01
I	<u>CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM</u>	
46	PELAN KUNCI, PELAN LOKASI DAN PELAN TAPAK	SJE/MPKJ/DB-BBB/2021/CCTV-01
47	GROUND FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/CCTV-02
48	1ST ROOF PLAN	SJE/MPKJ/DB-BBB/2021/CCTV-03
49	WIRING SCHEMATIC DIAGRAM	SJE/MPKJ/DB-BBB/2021/CCTV-04
J	<u>SOUND REINFORCEMENT SYSTEM</u>	
50	1ST FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/SRS-01
51	PRO SOUND SYSTEM	SJE/MPKJ/DB-BBB/2021/SRS-02
52	PRO SOUND SYSTEM	SJE/MPKJ/DB-BBB/2021/SRS-02
K	<u>STAGE LIGHTING SYSTEM</u>	
53	1ST FLOOR PLAN	SJE/MPKJ/DB-BBB/2021/SLS-01
54	STAGE LIGHTING SYSTEM ARCHITECTURE	SJE/MPKJ/DB-BBB/2021/SLS-02
	<u>AUDIO VISUAL SYSTEM</u>	
55	1ST ROOF PLAN	SJE/MPKJ/DB-BBB/2021/AVS-01
56	SECTION B - B	SJE/MPKJ/DB-BBB/2021/AVS-02