

TAKLIMAT RINGKASAN SKOP KERJA

**KERJA – KERJA
PEMBAIKAN
MENYELURUH RUMAH
KELUARGA
APARTMEN A37 DI
PANGKALAN TLDM
LUMUT, PERAK DARUL
RIDZUAN.**



Kandungan



1. **Maklumat Tender**
2. **Perlantikan Sub-Kontraktor Yang Berdaftar Dengan CIDB**
3. **Pelan Lokasi**
4. **Tempoh Siap Pelaksanaan Kerja**
5. **Skop Kerja**
6. **Gambar**



1. Maklumat Tender

**TENDER ADALAH DIPELAWA KEPADA KONTRAKTOR-KONTRAKTOR
YANG MEMENUHI SYARAT-SYARAT BERIKUT :**

- i) Berdaftar Dengan CIDB : Gred G7
- ii) Kategori : B
- iii) Pengkhususan : B04 & B28
- iv) Terbuka

1. Maklumat Tender ... (samb)

PENJUALAN DOKUMEN TENDER ATAS TALIAN

- **Petender hendaklah mengambil perhatian** bahawa Dokumen Tender untuk projek ini akan **dijual** secara **salinan lembut (softcopy) di atas talian**.
- Dokumen Tender **hanya akan dijual** kepada petender yang layak berdasarkan kepada maklumat pendaftaran yang dikemukakan oleh petender melalui **Borang Saringan Wajib**.

Nota :

Petender hendaklah merujuk Arahan Kepada Petender untuk maklumat terperinci.

1. Maklumat Tender ... (samb)

PENJUALAN DOKUMEN TENDER ATAS TALIAN ... (samb)

- **Petender yang layak** akan menerima nombor akaun **melalui e-mel** untuk membuat pembayaran secara atas talian dalam tempoh penjualan yang telah ditetapkan.
- **Pembayaran secara atas talian** yang dibenarkan adalah menggunakan **JomPAY sahaja** dan slip bayaran perlu dikemukakan melalui e-mel sebagai bukti pembayaran.
- Petender hendaklah mengemukakan slip bayaran di dalam **sampul yang berasingan** semasa mengemukakan dokumen tender sebelum atau pada tarikh tutup tender.

Nota : Petender hendaklah merujuk Arahan Kepada Petender untuk maklumat terperinci.

1. Maklumat Tender ... (samb)

HARGA INDIKATIF JABATAN

- Harga Indikatif Jabatan bagi tender ini adalah **Tiga Belas Juta Sahaja. (RM 13,000,000.00)**
- Harga Indikatif Jabatan ini merupakan suatu anggaran sahaja dan amaun tersebut tidak mengikat Kerajaan atau mana-mana pihak lain juga bagi maksud mengelakkan kekeliruan yang mungkin berbangkit.
- Pihak Kerajaan tidak menjamin bahawa syarikat akan dipilih atau boleh menyiapkan kerja dengan bersandarkan Harga Indikatif Jabatan.

Petender yang menawarkan harga melebihi Harga Indikatif Jabatan tidak akan dinilai.

1. Maklumat Tender ... (samb)

BORANG-BORANG MAKLUMAT YANG PERLU DILENGKAPI OLEH PETENDER

BORANG A	-	Surat Pengakuan Kebenaran Maklumat dan Kesahihan Dokumen Yang Dikemukakan Oleh Petender
BORANG B	-	Maklumat Am dan Latar Belakang Petender
BORANG C	-	Data Kewangan
BORANG CA	-	Laporan Bank/Institusi Kewangan Mengenai Kemudahan Kredit
BORANG D	-	Rekod Pengalaman Kerja
BORANG E	-	Kakitangan Teknikal
BORANG F	-	Keempunyaan Loji & Peralatan Pembinaan Utama
BORANG G	-	Senarai Kerja Kontrak Semasa
BORANG GA	-	Laporan Penyelia Projek Atas Prestasi Kerja Semasa Petender (Bukan Projek JKR)
BORANG GA1	-	Laporan Jurutera Projek Atas Prestasi Kerja Semasa Petender

1. Maklumat Tender ... (samb)

DOKUMEN MEJA TENDER

Naskah lengkap Dokumen Meja Tender boleh dirujuk di :

Pejabat : Juruukur Bahan Penguasa
Tingkat 1, Bahagian Kontrak & Ukur
Bahan, Jabatan Kerja Raya Negeri Perak
Jalan Panglima Bukit Gantang Wahab,
30000 IPOH.

Masa	: Isnin hingga Khamis	Jumaat
	: 8.00 Pagi – 1.00 Petang	: 8.00 Pagi – 12.15 Petang
	: 2.00 Petang – 4.00 Petang	: 2.45 Petang – 4.00 Petang

- Dokumen Meja Tender juga akan dipamerkan secara salinan lembut (*softcopy*) di atas talian yang boleh dicapai oleh Petender selepas pautan dikemukakan melalui e-mel kepada Petender.

1. Maklumat Tender ... (samb)

PENYERAHAN TENDER SECARA SERAHAN TANGAN

- Petender adalah **DIWAJIBKAN** memuat turun, mengisi, melengkap, mencetak dan **MENGEMBALIKAN SECARA SALINAN KERAS (HARDCOPY)**. Dokumen Tender hendaklah dilengkapkan dan dimasukkan di dalam sampul 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:

KERJA-KERJA PEMBAIKAN MENYELURUH RUMAH KELUARGA APARTMEN A37 DI PANGKALAN TLDM LUMUT, PERAK DARUL RIDZUAN

dan dihantar secara serahan tangan kepada:

**Juruukur Bahan Penguasa
Tingkat 1, Bahagian Kontrak & Ukur Bahan,
Jabatan Kerja Raya Perak,
Jalan Panglima Bukit Gantang Wahab,
30000 IPOH.
(u.p: Pn. SALINA BINTI CHE ALI)**

dan sebelum atau Tarikh Tutup Tender pada **07 Jun 2022** selewat-lewatnya pada pukul **12.00 tengahari**. 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.

2. Perlantikan Sub-Kontraktor Yang Berdaftar Dengan CIDB

- Petender dikehendaki untuk mencadangkan nama Sub-Kontraktor yang akan dilantik (semasa mengemukakan tender) seperti di borang Particular Of Sub-Contractor bagi kerja-kerja Kontrak yang dilaksanakan dan memastikan bahawa Sub-Kontraktor tersebut berdaftar dengan CIDB dan mempunyai Sijil Perolehan Kerja Kerajaan (SPKK) dalam gred, kategori dan pengkhususan seperti berikut :

Gred : G4, G5, G6 & G7

Kategori : ME

Pengkhususan : E04,E11, E17 & E32

Gred : G1

Kategori : ME

Pengkhususan : M02

Fire Fighting System

Gred : G3

Kategori : ME

Pengkhususan : M15

Cold Water And Sanitary Plumbing System

Kegagalan petender menamakan Sub-Kontraktor ini akan mengakibatkan petender tidak layak dinilai.

3. Pelan Lokasi



11





4. Tempoh Siap Kerja



1. Tempoh siap maksima adalah **80 Minggu**

5. Skop Kerja



PART A - PRELIMINARIES AND GENERAL CONDCTIONS

- ❑ Project Signboard
- ❑ Temporary Diversion and Relocation of Existing Overhead and Underground Services
- ❑ Construction Plan
 - ❑ Programme of Work
 - ❑ Methods Statements
 - ❑ Contractors Organisation Chart
 - ❑ Schedules
 - ❑ Quality Assurance Plan (Quality Assurance Team / Quality Assurance Officer)
- ❑ Contractors Plant
- ❑ Temporary Water And Power Supplies For The Works
- ❑ Site Security (*Langkah kawalan semasa bekerja dalam kawasan keselamatan, had waktu bekerja, permit pekerja asing*)
- ❑ Temporary Access and Maintenance of Existing Roads

5. Skop Kerja... (samb)

1. PRELIMINARIES AND GENERAL ITEMS

- ☐ Control of Workmen, Plant and Machinery At Site
- ☐ Contractor's Office and Store (*Penentuan lokasi yang sesuai*)
- ☐ Care and Protection of Materials and Works
- ☐ Shop Drawings, samples and Mock-Ups
- ☐ Progress Photographs
- ☐ Office Accommodation for SO
- ☐ Site Item for SO/Office Equipment and Facilities
- ☐ Safe Working Area
- ☐ Safety, Health and Welfare
- ☐ Keeping the Site Tidy

5. Skop Kerja... (samb)

1. PRELIMINARIES AND GENERAL ITEMS

- ☐ Coordination of Mechanical and Electrical (M&E) Services (M&E Coordinator)
- ☐ As- Built Drawings
- ☐ Clearing, Cleaning and Making Good on Completion
- ☐ Performance Bond
- ☐ Insurance Against Personal Injuries And Damage To Property
- ☐ Indemnities to Government in Respect of Claim by Workmen
- ☐ Employees' Social Security Act, 1969
- ☐ Insurance of Works
- ☐ Materials, Goods And Workmanship - Opening up of work for inspection or testing of materials or goods.
- ☐ Site Agent And Assistants

i. **Building Works**

- **Demolition Works**
- **Internal Alteration Works**
- **External Alteration Works**

5. Skop Kerja... (samb)



18

Demolition Works

General Note:

- ☐ Condition survey and disconnection of services
- ☐ Material from Demolition
- ☐ Removal of Debris/Rubbish
- ☐ Reinstatement
- ☐ Material and Demolition
- ☐ Overloading Existing Structures
- ☐ Usage of Passenger Lift

5. Skop Kerja ... (samb)

Demolition Works... (samb)

- ❑ Scrape off existing internal wall painting from plastered surfaces, clean up surfaces and make good cracks and other surface imperfections
- ❑ Scrape off existing ceiling painting from plastered surfaces for internal and common area, clean up surfaces and make good cracks and other surface
- ❑ Hack off existing floor tile and wall tile finishes including cement screed
- ❑ Hack off existing skirting including cement
- ❑ Dismantle existing door leaf including making good of existing frame and surface
- ❑ Rectified all existing glass window, adjustable louvre window (NACO) and security bar including all cutting existing frame and painting and making good of existing frame
- ❑ Demolish existing squatting water closet and cistern including hacking off existing concrete and making good existing surface
- ❑ Demolish and dismantle all existing cold water pipe and all accessories to receive new piping system including hacking and make good surface
- ❑ Demolish and dismantle all existing sanitary pipe and all accessories to receive new piping system including hacking and make good surface

5. Skop Kerja ... (samb)

Demolition Works... (samb)

- ❑ Dismantle carefully all existing furniture (built-in and loose) and make good existing surface
- ❑ Dismantle all existing MS railing including making good existing surface
- ❑ Dismantle existing water tank at bathroom area including all support and termination, making good existing surface
- ❑ Demolish and dismantle all existing kitchen sink included all accessories
- ❑ Dismantle all existing ceiling including all related works at level 10
- ❑ Demolish existing concrete top (kitchen area) including making good surface
- ❑ Dismantle existing door grille including making good surface to receive grille
- ❑ Salvage value to credit to government of the following: Building material

5. Skop Kerja ... (samb)

Demolition Works... (samb)

- ❑ Scrape off existing external wall painting from plastered surfaces, clean up surfaces and make good cracks and other surface imperfections
- ❑ Scrape off existing ceiling painting from plastered surfaces for external and common area, clean up surfaces and make good cracks and other surface imperfections
- ❑ Dismantle all existing MS hand railing and make good existing surface
- ❑ Dismantle existing roller shutter including frame and ironmongeries, making good of existing surface
- ❑ Dismantle existing mailbox, making good of existing surface
- ❑ Demolish and dismantle all existing refuse chamber
- ❑ Demolish and dismantle UPVC Rain Water Down Pipe including all bends, tees, sockets, plugs reducers, brackets, supports and making good of existing surface and other necessary
- ❑ Dismantle existing metal deck roof including ridge capping, hip capping, flashing and all necessary
- ❑ Dismantle existing galvanised steel gutter and all necessary
- ❑ Salvage value to credit to government of the following: Building material

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

Internal Alteration Works

- ❑ Prepare and apply one coat wall sealer
- ❑ Prepare and apply two coats of emulsion paint
- ❑ Prepare and apply SikaWall -192 Finish skimcoat
- ❑ Supply and install new partitionboard single layer of 15mm gypsum board panel wall including all the necessary works for the complete installation of the new partition wall
- ❑ Wall Tiles - 300mm x 300mm x 8mm thick ceramic tiles to S.O approval and manufacturer details, bedded, jointed and pointed in matching coloured cement including 25mm thick cement and sand.
- ❑ Floor Tiles - 300mm x 300mm x 8mm thick ceramic tiles to S.O approval and manufacturer details, bedded, jointed in cement and sand mortar and pointed in matching coloured cement including roughened existing floor finishes
- ❑ Toilet Floor - 00mm x 300mm x 8mm thick non-slip ceramic tiles to S.O. approval and manufacturer details, bedded, jointed in cement and sand mortar and pointed in matching coloured cement including 25mm thick cement and sand (1:3) screed
- ❑ Skirting - 100mm x 300mm x 8mm thick ceramic tiles to S.O approval and manufacturer details, bedded, jointed in cement and sand mortar and pointed in matching coloured cement
- ❑ 25mm thick cement and sand (1:3) screed as described to adjust floor level to suit level specification
- ❑ To supply and install 3 layer of waterproofing emulsion (Shell Flintkote no. 5)

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

Internal Alteration Works...(samb)

- ❑ Supply, deliver and install the following door including making good of existing door frame and to the existing wall surface, fixing into position door leaf, lockset (measured separately), barrel bolts, door stop complete with necessary ironmongeries and works for the complete installation of the door with gloss enamel paint; one undercoat and two finishing coats; on woodworks
 - A. Decorative solid timber door; 900 x 2100mm
 - B. Plywood flush door; 900mm x 2100mm
 - C. UPVC door; 750mm x 200mm
 - D. Single leaf louvers door, 900mm x 2100mm
- ❑ Aluminium Louver Door - Supply, deliver and install the following aluminium door leaf including making good of existing door frame and to the existing wall surface, fixing into position, lockset, barrel bolts, door stop complete with ironmongeries and all necessary accessories and works for the complete installation to manufacturer details and S.O. approval;
- ❑ Lockset - Supply and install gripset and Supply and install cylindrical locks.

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

Internal Alteration Works...(samb)

- ☐ Supply, deliver and fix approved anodized aluminium casement windows complete with frame and all necessary accessories ironmongeries, beading, fixing screws complete and glazing to manufacturer's details and S.O.
- A. Fixed aluminum louvers overall size, 700mm x 800mmUPVC door; 750mm x 200mm
- B. 1200mm x 1200mm sliding window comprising of window panel and aluminium window frame with 6mm thk tinted glass
- C. 1800 x 1200mm sliding window comprising of window panel and aluminium window frame with 6mm thk tinted glass panel
- D. 450mm x 1200mm sliding window comprising of window panel and aluminium window frame with 6mm thk tinted glass panel
- ☐ Security Grille

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

Internal Alteration Works...(samb)

- ❑ Supply and Install UPVC Rain Water Down Pipe complete with all bends, tees, sockets, plugs reducers, brackets, supports and other necessary.
- ❑ Stainless steel handrailing and balustrading overall size 3800mm x 1080mm height
- ❑ Supply and fix the following approved sanitary fittings and complete with accessories including providing and fixing all necessary plugs, screws, connecting to work, vent and services as required attending to all trades, cutting away and making good to floor and wall tiling as required

A. Bib Tap

- ❑ Security Grille

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

Internal Alteration Works...(samb)

- ❑ Supply and Install UPVC Rain Water Down Pipe complete with all bends, tees, sockets, plugs reducers, brackets, supports and other necessary.
- ❑ Stainless steel handrailing and balustrading overall size 3800mm x 1080mm height
- ❑ Supply and fix the following approved sanitary fittings and complete with accessories including providing and fixing all necessary plugs, screws, connecting to work, vent and services as required attending to all trades, cutting away and making good to floor and wall tiling as required

A. Bib Tap

- ❑ Security Grille

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

External Alteration Works

- ❑ kerja-kerja pembaikan resapan disetiap dinding serta lantai "corridor", dan lantai "balcony" dan "yard"
- ❑ Kerja – kerja mengecat bahagian luar dan dalam
- ❑ Kerja-kerja penukaran “rain water down pipe”
- ❑ Kerja-kerja bekal dan pasang “fix ceiling” di Aras 10
- ❑ Kerja-kerja membaiki pintu Rumah sampah di tingkat bawah
- ❑ Kerja membekal dan memasang pintu “roller shutter” di Unit Kedai.
- ❑ Bekal dan pasang pintu rintangan api bagi bilik suis utama, riser dan genset

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

External Alteration Works ... (samb)

- ❑ Stainless Steel Handrails (Balcony & Staircase) bina baru
- ❑ kerja-kerja membekal dan memasang kelengkapan kebersihan pada Unit Kedai.
- ❑ Kerja-kerja bekal dan pasang penutup longkang jenis “Lightweight concrete drain cover”
- ❑ Kerja-kerja membekal dan pasang peti surat dan papan kenyataan di Aras Bawah.
- ❑ Kerja-kerja menutup “trash chamber” pada setiap aras.
- ❑ Kerja – kerja penggantian ‘warning signage’
- ❑ Kerja-kerja anti termite di bahagian Lantai Tingkat Bawah

5. Skop Kerja ... (samb)

SKOP KERJA AWAM/SENIBINA

External Alteration Works ... (samb)

- ❑ Kerja – kerja pembinaan rumah sampah.
- ❑ Kerja – kerja penukaran pintu riser dari aras bawah hingga tingkat 10
- ❑ Jubin lantai dan dinding di tingkat bawah serta kawasan lobby
- ❑ Jubin Lantai di rumah kedai dan surau
- ❑ Menurap semula jalan serta menambah bilangan tempat meletak kenderaan

6. Gambar Apartmen A37



30



6. Gambar Apartmen A37 ... (samb)



31



6. Gambar Apartmen A37 ... (samb)



6. Gambar Apartmen A37 ... (samb)



33



RUANG TAMU

www.jkr.gov.my

6. Gambar Apartmen A37 ... (samb)



34



BILIK TIDUR UTAMA

6. Gambar Apartmen A37 ... (samb)



35



BILIK TIDUR KEDUA

6. Gambar Apartmen A37 ... (samb)



36



BILIK TIDUR KETIGA

6. Gambar Apartmen A37 ... (samb)



37



DAPUR

6. Gambar Apartmen A37 ... (samb)



38



STOR

6. Gambar Apartmen A37 ... (samb)



39



BALCONY & YARD

6. Gambar Apartmen A37 ... (samb)



40



6. Gambar Apartmen A37 ... (samb)



ii. Elektrik

5. Skop Kerja ... (samb)

SKOP KERJA ELEKTRIK

C1 – PENDAWAIAN ELEKTRIK

- ✓ Pendawaian elektrik menggunakan GS conduit secara permukaan dan mengikut spesifikasi JKR
- ✓ Pendawaian menggunakan aksesori yang sesuai bagi pendawaian permukaan

C2 – MEMBEKAL DAN MEMASANG LENGKAPAN ELEKTRIK

- ✓ Peralatan elektrik yang diluluskan seperti dalam JMAL (Lampu, Kipas, Soket dsb)

C3 – MEMBEKAL DAN MEMASANG PAPAN SUIS UTAMA DAN PAPAN AGIHAN

- ✓ Membekal dan memasang suis seperti dalam senarai kuantiti dan lukisan.
- ✓ Pengilang mestilah yang disenaraikan dalam JMAL

5. Skop Kerja ... (samb)

SKOP KERJA ELEKTRIK

C4 – RISER

- ✓ Membekalkan tap off unit seperti dalam senarai kuantiti

C5 – KABEL SUBMAIN DAN KABEL BAWAH TANAH

- ✓ Membekal dan memasang kabel submain dan kabel bawah tanah mengikut spesifikasi JKR dan diluluskan seperti dalam JMAL

C6 – ASTRO

- ✓ Membekal dan memasang sistem astro serta pengujian dan pentauliahan sehingga berfungsi.

5. Skop Kerja ... (samb)

SKOP KERJA ELEKTRIK

C7 – TELEFON

- ✓ Membekal dan memasang sistem telefon serta pengujian dan pentauliahan sehingga berfungsi.

C8 – PENYELENGGARAAN GENSET

- ✓ Melaksanakan penyelenggaraan pada janakuasa sedia ada dan penggantian alat ganti yang rosak dan memastikan janakuasa berfungsi dengan baik

C9 – PERLINDUNGAN KILAT

- ✓ Membekal dan memasang sistem perlindungan kilat serta pengujian dan pentauliahan sehingga berfungsi.

5. Skop Kerja ... (samb)

SKOP KERJA ELEKTRIK

C10 – PELBAGAI

- ✓ Melaksanakan kerja-kerja yang berkaitan seperti yang dinyatakan dalam senarai kuantiti elektrik.

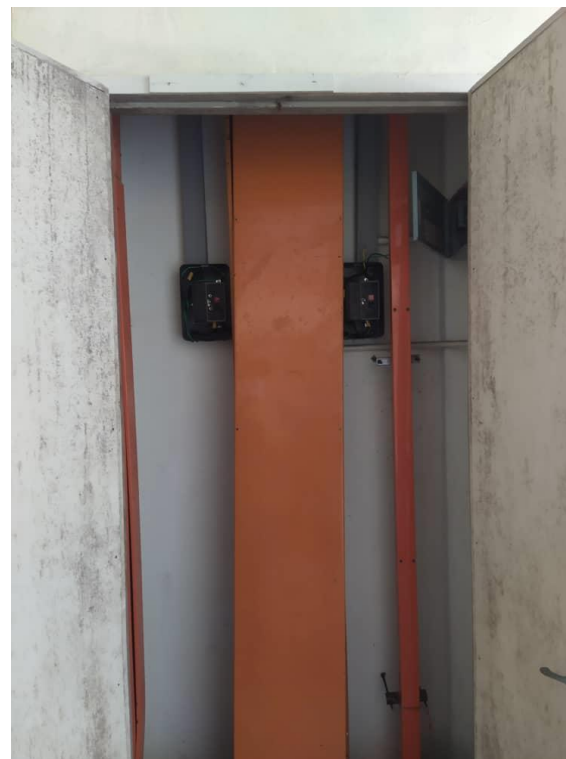
6. Gambar Apartmen A37 ... (samb)



6. Gambar Apartmen A37 ... (samb)



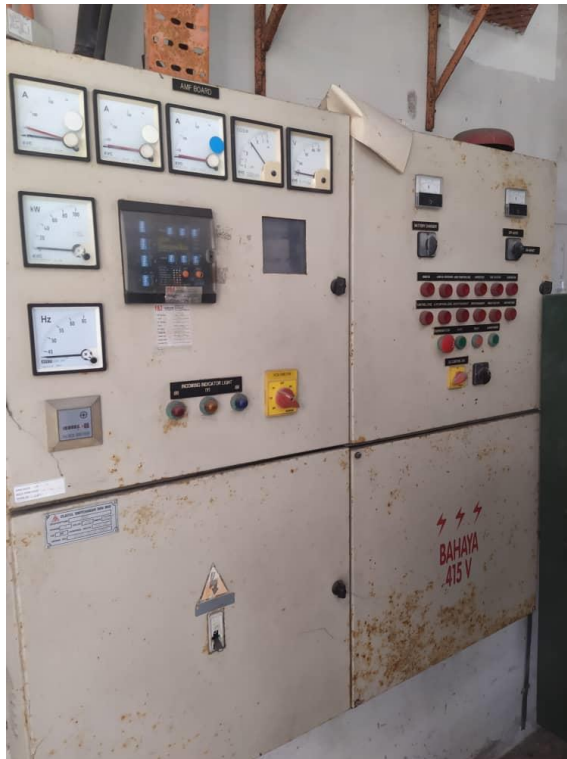
48



6. Gambar Apartmen A37 ... (samb)



49



6. Gambar Apartmen A37 ... (samb)



50



6. Gambar Apartmen A37 ... (samb)



51



iii. Mechanical Works

i. Cold Water & Sanitary Plumbing

ii. Fire Fighting System

5. Skop Kerja (Mekanikal)

COLD WATER & SANITARY SYSTEM

ARAS BAWAH (Pintu 1-A, 2-A, 3-A, 4-A, 5-A, 6-A, Surau, Kedai Runcit).

- Complete **Internal Cold Water Piping System** complete with all bends, tees, sockets, valves, plugs, reducers, brackets, support and other necessary items.
- Complete **Internal Sanitary Piping System** complete with all bends, tees, sockets, branches, offsets, inspection pieces, hopper heads, holder bats and other necessary items.
- Supply and install new individual water meter (SPAN approved) complete with all accessories required.
- Install new incoming pipe water supply from ground level to 2 nos main water storage tank at roof top level complete with all accessories required.

5. Skop Kerja (Mekanikal)... (samb)

COLD WATER & SANITARY SYSTEM....(samb.)

ARAS SATU HINGGA ARAS SEPULUH (Pintu 1 hingga Pintu 100).

- Complete **Internal Cold Water Piping System** complete with all bends, tees, sockets, valves, plugs, reducers, brackets, support and other necessary items.
- Complete **Internal Sanitary Piping System** complete with all bends, tees, sockets, branches, offsets, inspection pieces, hopper heads, holder bats and other necessary items.
- Supply and install new individual water meter (SPAN approved) complete with all accessories required

5. Skop Kerja (Mekanikal) ... (samb)

COLD WATER & SANITARY SYSTEM....(samb.)

ARAS SEBELAS DAN RUANG TANGKI

- To dismantle existing 2 nos FRP water storage tank and reinstall new FRP water storage tank including all piping such as inlet pipe, outlet pipe, scour pipe, overflow pipe, brass float valve, complete with all valves, bends, tees, sockets, brackets, supports, plugs reducers and other necessary item. Size tank : 5m x 5m x 3m (high).
- Complete main UPVC Class E PN15 Outlet Pipe start from 2 nos main water storage tank at roof level to each ground level complete with all valves, bends, tees, sockets, brackets, supports, plugs reducers including balancing pipe and other necessary item

5. Skop Kerja (Mekanikal) ... (samb)



Fire Fighting System

To supply, delivery, installation, testing and commissioning of the following equipment :

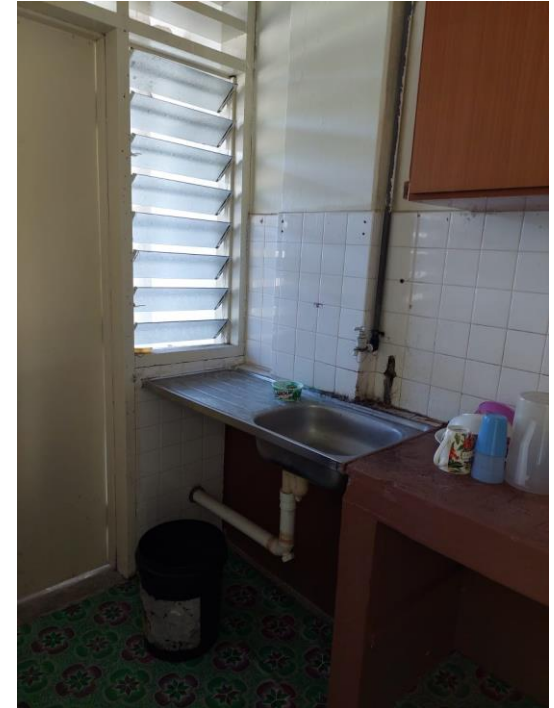
- To inspect existing dry riser pipes, install new landing valves, air release valve, canvas hose, nozzle, 2-way breeching inlet c/w cabinet and other accessories.
- Complete Automatic Fire Detection and Alarm System c/w piping, accessories, wiring, trunking, conduit, cable trays and other necessary items.
- To supply 5.0kg CO2 Portable Fire Extinguisher c/w mounting steel bracket
- To dismantle and remove all existing cabling and wiring, inclusive of conduits, cable trunks, cable tray and other accessories prior to the installation of the new equipment

6. Gambar Apartmen A37 ... (samb)



57

COLD WATER & SANITARY SYSTEM



6. Gambar Apartmen A37 ... (samb)



58

COLD WATER & SANITARY SYSTEM



6. Gambar Apartmen A37 ... (samb)



59

CONVENTIONAL FIRE FIGHTING SYSTEM



6. Gambar Apartmen A37 ... (samb)



60

CONVENTIONAL FIRE FIGHTING SYSTEM



iv. PROVISIONAL SUM

5. Skop Kerja ... (samb)

PROVISIONAL SUM

- BUILDERS WORK IN CONNECTION
- SEWERAGE SYSTEM
- EXTERNAL WORKS (G1)



Sekian,
Terima Kasih