



JABATAN KERJA RAYA MALAYSIA

**PEPERIKSAAN PERKHIDMATAN
PENOLONG JURUUKUR BAHAN
2011
UKUR BAHAN**

KOD : PTU01
SUBJEK : PENGUKURAN KUANTITI
TARIKH : 25 APRIL 2011
MASA : 9.00 PAGI – 12.00 TGH

**DILARANG MEMBUKA KERTAS SOALAN
SEHINGGA DIARAHKAN**

PERKARA : PTU01 – PENGUKURAN KUANTITI

ARAHAN KEPADA CALON

Kertas ini mengandungi dua (2) soalan.
Jawab *semua* soalan.

Calon tidak dibenarkan merujuk kepada sebarang bahan rujukan.

BAHAGIAN A

SOALAN 1

- a) Berdasarkan lukisan No. PTU01/1-2011/01 iaitu Jadual Kelengkapan Kebersihan Bilik Air Kuarters Piawai JKR, sediakan perkara-perkara berikut:

- i) Senarai Pengukuran Kerja (*taking off list*) bagi kerja pemasangan kelengkapan kebersihan (*sanitary installation*).

(7 markah)

- ii) Senarai Kuantiti bagi kerja di atas.

Berikan andaian anda di mana perlu.

(28 markah)

- b) Berdasarkan Syarat-syarat Kontrak JKR 203/203A Pindaan 2007:

Sediakan Senarai Kuantiti untuk Wang Peruntukan Sementara bagi:

- i) Kerja-kerja *signage* yang berjumlah RM 100,000.00
ii) Kerja-kerja lanskap yang berjumlah RM150,000.00

(5 markah)

SOALAN 1 (sambungan)

- c) Sediakan Senarai Kuantiti untuk Wang Kos Prima bagi:
- i) Kerja-kerja pemasangan elektrik yang berjumlah RM 250,000.00
 - ii) Kerja-kerja pemasangan hawa dingin yang berjumlah RM 50,000.00

Berikan andaian anda di mana perlu.

(10 markah)

BAHAGIAN B

SOALAN 2

Berdasarkan lukisan No. PTU01/1-2011/02 iaitu Pelan dan Butiran Jalan, sediakan perkara-perkara berikut:

- a) Senarai Pengukuran Kerja (*taking off list*) bagi kerja jalan untuk kawasan berlorek (tidak termasuk aksesori jalan).

(4 markah)

- b) Pengukuran kuantiti dengan menggunakan *taking off sheet* yang disediakan.

(22 markah)

- c) Sediakan Senarai Kuantiti bagi kerja di atas dan hargakan berpandukan kepada maklumat kadar kerja berikut:

i)	<i>Site clearing</i>	m ²	RM 3.00/m ²
ii)	<i>Excavate topsoil</i>	m ²	RM 1.50/m ²
iii)	<i>Excavate surface to road formation</i>	m ³	RM 5.50/m ³
iv)	<i>Road compaction</i>	m ²	RM2.00/m ²
v)	<i>Sand</i>	m ³	RM 50.00/m ³

SOALAN 2 (sambungan)

vi)	<i>Aggregate</i>	m ³	RM 60.00/m ³
vii)	<i>Tack coat</i>	m ²	RM2.00/m ²
viii)	<i>ACB 28</i>	m ³	RM 400.00/m ³
ix)	<i>ACW 20</i>	m ³	RM 410.00/m ³
x)	<i>Prime coat</i>	m ²	RM 2.20/m ²
xi)	<i>Dense Macadam</i>	m ³	RM 380.00/m ³
xii)	<i>150mm wide road line painting</i>	m	RM 2.00/m

Nyatakan andaian anda di mana perlu.

(24 markah)

JADUAL KELENGKAPAN KEBERSIHAN BILIK AIR KUARTERS PIAWAI JKR

Bil.	Nama Bilik	MT1	MT2	BBT1	BBT2	PM1a	HB	PS1	PS2	PT	PTT	KA	PA	PL	C
1	Bilik Air 1	1		1		1	1	1		1	1			1	1
2	Bilik Air 2	1			1	1	1	1		1	1			1	1
3	Bilik Air 3 (Tetamu)	1			1	1	1	1		1	1			1	1
4	Bilik Air 4 (Pem. Rumah)		1				1		1	1	1	1	1	1	
5	Ruang Serbaguna												1	1	
	JUMLAH	3	1	1	2	3	4	3	1	4	4	1	2	5	3

Bil.	Nama Bilik	PERALATAN				KELENGKAPAN						
		Mangkuk Tandas	Basin Basuh Tangan	Shower	Soap Holder	Towel Rail	Toilet Roll Holder	Bidets	Water Tub	Water Tap	Floor Trap	Mirror
1	Bilik Air 1 (UTAMA)	Close-coupled washdown back-to wall pedestal water closet back inlet with 'S' trap c/w Concealed Cistern & lid / flush valve c/w hinged seat & cover in matching colour	Under-counter Vanity basin c/w 1200mm x 600mm solid surface vanity top; with 100mm backsplash c/w chrome plated single lever basin pillar tap.	780mm x 750mm Shower tray with trap fixed c/w plain clear glass with chrome plated frame shower enclosures c/w chrome plated shower arm and head 1800mm high.	310mm x 160mm x 95mm Semi recessed soap and sponge holder in vitreous china.	600mm x 125mm Screw-to-wall towel rail holder c/w chrome plated bar	165mm x 165mm x 95mm Semi recessed toilet holder in vitreous china c/w with plastic roller.	Hand bidet c/w flexible hose & wall bracket with arrowline metal handle	not applicable	not applicable	Aluminium floor trap & cover	600 x 1000mm Bevelled edge plated glass mirror complete with 4mm thk. Plywoodbacking and fixed with chromium plated dome headed fixing screws and cork washer
	Simbol	MT1	BBT1	PM1a	PS1	PT	PTT	HB				C
2	Bilik Air 2 (STANDARD)	Close-coupled washdown back-to wall pedestal water closet back inlet with 'S' trap c/w Concealed Cistern & lid / flush valve c/w hinged seat & cover in matching colour	Wall hung wash basin in vitreous china size 500mm x 420mm c/w plastic bottle trap; waste plug and chain c/w pillar tap, bright chrome plated with metal handle.	780mm x 750mm Shower tray with trap fixed c/w plain clear glass with chrome plated frame shower enclosures c/w chrome plated shower arm and head 1800mm high.	310mm x 160mm x 95mm Semi recessed soap and sponge holder in vitreous china.	600mm x 125mm Screw-to-wall towel rail holder c/w chrome plated bar	165mm x 165mm x 95mm Semi recessed toilet holder in vitreous china c/w with plastic roller.	Hand bidet c/w flexible hose & wall bracket with arrowline metal handle	not applicable	not applicable	Aluminium floor trap & cover	600 x 1000mm Bevelled edge plated glass mirror complete with 4mm thk. Plywoodbacking and fixed with chromium plated dome headed fixing screws and cork washer
	Simbol	MT1	BBT2	PM1a	PS1	PT	PTT	HB				C
3	Bilik Air 3 (TETAMU)	Close-coupled washdown back-to wall pedestal water closet back inlet with 'S' trap c/w Concealed Cistern & lid / flush valve c/w hinged seat & cover in matching colour	Wall hung wash basin in vitreous china size 500mm x 420mm c/w plastic bottle trap; waste plug and chain c/w pillar tap, bright chrome plated with metal handle.	780mm x 750mm Shower tray with trap fixed c/w plain clear glass with chrome plated frame shower enclosures c/w chrome plated shower arm and head 1800mm high.	310mm x 160mm x 95mm Semi recessed soap and sponge holder in vitreous china.	600mm x 125mm Screw-to-wall towel rail holder c/w chrome plated bar	165mm x 165mm x 95mm Semi recessed toilet holder in vitreous china c/w with plastic roller.	Hand bidet c/w flexible hose & wall bracket with arrowline metal handle	not applicable	not applicable	Aluminium floor trap & cover	600 x 1000mm Bevelled edge plated glass mirror complete with 4mm thk. Plywoodbacking and fixed with chromium plated dome headed fixing screws and cork washer
	Simbol	MT1	BBT2	PM1a	PS1	PT	PTT	HB				C
4	Bilik Air 4 (PEM. RUMAH)	Back inlet squatting WC pan c/w integral foot treads and loose 'S' trap in vitreous china 6 litres mid level cistern (level) and lid in vitreous china internal fittings	not applicable	not applicable	165mm x 165mm x 95mm Semi recessed soap holder in vitreous china	600mm x 125mm Screw-to-wall towel rail holder c/w chrome plated bar	165mm x 165mm x 95mm Semi recessed toilet holder in vitreous china c/w with plastic roller.	Hand bidet c/w flexible hose & wall bracket with arrowline metal handle	568.8 x 736.6mm (25 gallons) precast terrazzo water tub	12mm Booster bib tap bright chrome plated w/metal handle	Aluminium floor trap & cover	not applicable
	Simbol	MT2			PS2	PT	PTT	HB	KA	PA	PL	

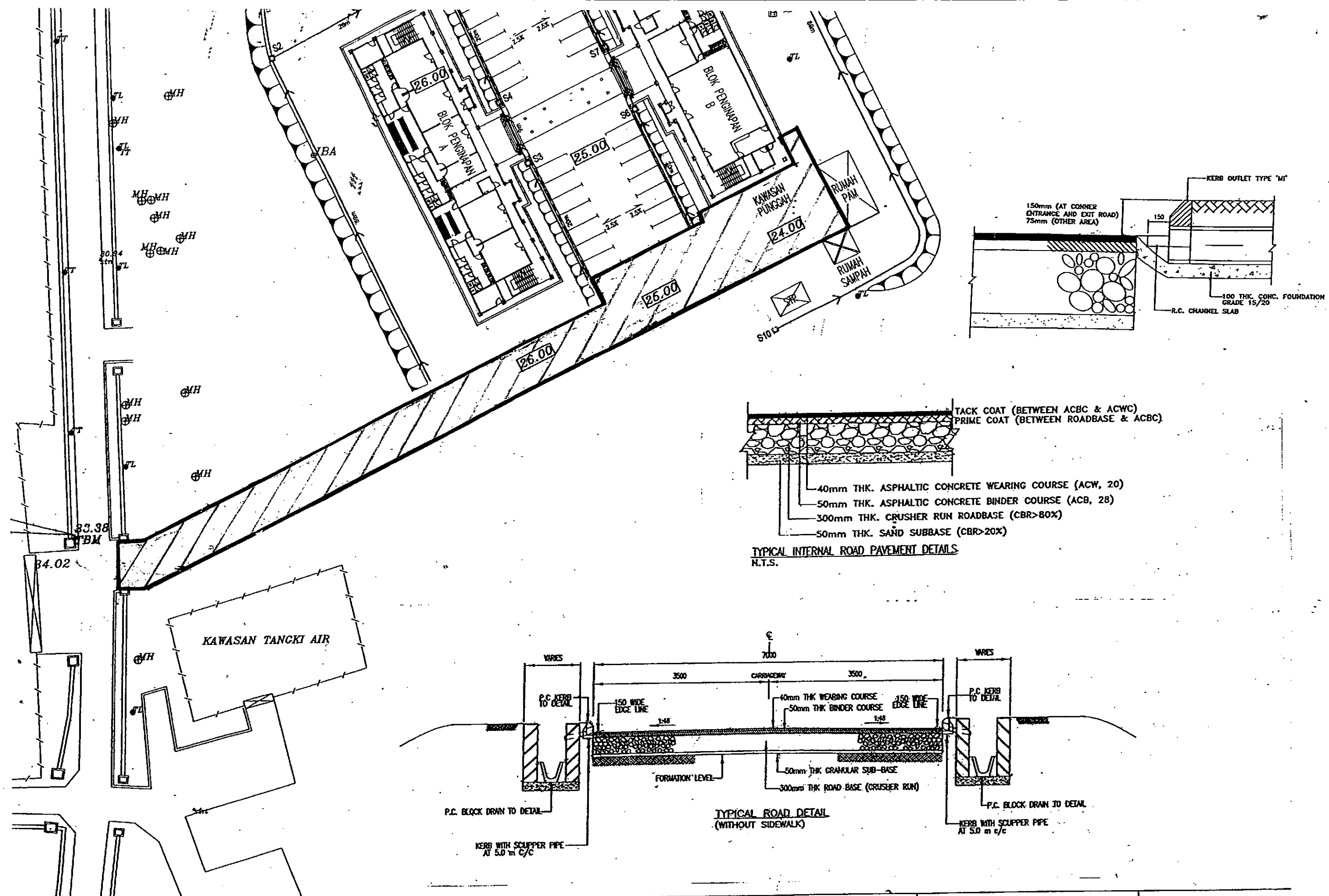
**SEKSYEN PEPERIKSAAN
CAWANGAN PENGURUSAN
KORPORAT**

**Perkara
KUARTERS PIAWAI JKR**

**Tajuk Lukisan
JADUAL KELENGKAPAN
KEBERSIHAN**

**No. Lukisan
PTU01/1-2011/01**

Skala



SEKSYEN PEPERIKSAAN
CAWANGAN PENGURUSAN
KORPORAT

Perkara
JALAN

Tajuk Lukisan
PELAN & BUTIRAN

No. Lukisan
PTU01/1-2011/02
Skala
1 : 500

