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JABATAN PERANGKAAN MALAYSIA

SEMENANJUNG MALAYSIA
PENINSULAR MALAYSIA

SIARAN KHAS
Special Release **2**

(UNTUK KERJA-KERJA PEMBINAAN BANGUNAN DAN STRUKTUR)
(For Building and Structural Works)

JANUARI **2022**
JANUARY

Pemakluman / Announcement:

Jabatan Perangkaan Malaysia sedang menjalankan Survei Pendapatan, Perbelanjaan Isi Rumah dan Kemudahan Asas (HIES/BA) 2022 bermula dari 1 Januari 2022 sehingga 31 Disember 2022.

Department of Statistics Malaysia is conducting Household Income, Expenditure and Basic Amenities Survey (HIES/BA) 2022 from 1st January 2022 until 31st December 2022.

Dimaklumkan bahawa Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah *"Connecting the World with Data We Can Trust"*

Please be informed that the Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20 each year. MyStats Day theme is "Connecting the World with Data We Can Trust"

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

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JANUARI 2022

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Indeks Kos Bahan Binaan bagi semua kawasan di Semenanjung Malaysia merekodkan peningkatan di antara 0.2 dan 3.9 peratus bagi semua kategori bangunan pada Januari 2022 berbanding pada bulan sebelumnya **(Jadual 1A dan Jadual 1B).**

Indeks harga seunit bahan binaan yang menunjukkan perubahan adalah Simen di kawasan A (0.2 mata), C (0.6 mata), D (0.3 mata) dan F (0.9 mata); Besi di kawasan C (0.2 mata) dan D (1.8 mata); Batu baur di kawasan C (0.8 mata) dan D (2.1 mata); Pasir di kawasan A (0.7 mata), C (0.6 mata), D (0.5 mata), E (0.7 mata) dan F (3.7 mata); Batu bata & dinding di kawasan A (0.4 mata), B (3.0 mata), C (0.7 mata), D (4.9 mata), E (0.8 mata) dan F (0.3 mata); Kayu bagi semua kawasan di Semenanjung Malaysia (4.0 mata); Bahan bumbung di kawasan B (1.1 mata), C (1.9 mata), D (0.3 mata) dan F (0.3 mata); Bahan siling di kawasan A (1.6 mata), C (0.8 mata), D (1.7 mata) dan E (1.7 mata); Keratan keluli & logam di kawasan A (0.3 mata), B (0.6 mata), C (1.0 mata), D (4.5 mata), E (1.6 mata) dan F (3.7 mata); Bahan kerja paip di kawasan A (0.9 mata), B (0.5 mata), C (1.0 mata), D (1.2 mata), E (2.1 mata) dan F (2.8 mata); Jubin lantai & dinding di kawasan A (2.3 mata), B (1.5 mata), C (0.2 mata) dan F (5.4 mata); Lengkapan kebersihan di kawasan A (0.7 mata), B (3.2 mata), D (0.3 mata) dan F (2.1 mata); Kaca di kawasan A (2.5 mata) dan C (3.5 mata), D (4.0 mata) dan E (1.7 mata); dan Cat di kawasan A (2.1 mata), B (0.6 mata), C (0.6 mata), E (1.7 mata) dan F (2.2 mata) **(Jadual 2).**

Indeks harga seunit bagi semua keluli struktur di Selangor dan W.P. Kuala Lumpur yang menunjukkan perubahan adalah Keratan Geronggang Segi Empat Sama (2.1 mata), Keratan Geronggang Segi Empat Tepat (0.8 mata), Sesiku Sama (4.0 mata), Sesalur U (0.9 mata) dan Sesalur Bibir (0.9 mata) **(Jadual 3).**

SUMMARY OF FINDINGS

BUILDING MATERIAL COST INDEX (JULY 2017=100)
JANUARY 2022

Peninsular Malaysia

The BCI for all region in Peninsular Malaysia recorded an increase between 0.2 and 3.9 per cent for all building categories in January 2022 as compared to the previous month ***(Table 1A and Table 1B).***

The unit price indices of building materials that showed changes were Cement in regions A (0.2 points), C (0.6 points), D (0.3 points) and F (0.9 points); Steel in regions C (0.2 points) and D (1.8 points); Aggregates in regions C (0.8 points) and D (2.1 points); Sand in regions A (0.7 points), C (0.6 points), D (0.5 points), E (0.7 points) and F (3.7 points); Bricks & wall in regions A (0.4 points), B (3.0 points), C (0.7 points), D (4.9 points), E (0.8 points) and F (0.3 points); Timber for all regions in Peninsular Malaysia (4.0 points); Roofing materials in regions B (1.1 points), C (1.9 points), D (0.3 points) and F (0.3 points); Ceiling materials in regions A (1.6 points), C (0.8 points), D (1.7 points) and E (1.7 points); Steel & metal sections in regions A (0.3 points), B (0.6 points), C (1.0 points), D (4.5 points), E (1.6 points) and F (3.7 points); Plumbing materials in regions A (0.9 points), B (0.5 points), C (1.0 points), D (1.2 points), E (2.1 points) and F (2.8 points); Floor & wall tiles in regions A (2.3 points), B (1.5 points), C (0.2 points) and F (5.4 points); Sanitary fittings in regions A (0.7 points), B (3.2 points), D (0.3 points) and F (2.1 points); Glass in regions A (2.5 points) and C (3.5 points), D (4.0 points) and E (1.7 points); and Paints in regions A (2.1 points), B (0.6 points), C (0.6 points), E (1.7 points) and F (2.2 points) ***(Table 2).***

The unit price indices for all structural steel in Selangor and W.P. Kuala Lumpur that showed changes were Square Hollow Section (2.1 points), Rectangular Hollow Sections (0.8 points), Equal Angles (4.0 points), U Channels (0.9 points) and Lipped Channels (0.9 points) ***(Table 3).***

JADUAL

TABLE

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Jadual 1A: Indeks kos bahan binaan bangunan mengikut kategori bangunan dan kawasan (tanpa bar keluli)
Table 1A: Building materials cost index by category of building and region (without steel bars)

(Julai 2017=100)
(July 2017=100)

	Kategori Bangunan *Category of Building*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
1.A.1	**Bangunan (K.T.)**	**2021**	**Dis**	113.1	110.0	105.9	101.9	109.2	109.2
	Satu Tingkat	**2022**	**Jan**	114.1	110.9	106.9	103.2	110.1	111.2
	Single - Storey (R.C.)		**Feb**						
	Building		**Mac**						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.A.2	**Bangunan (K.T.)**	**2021**	**Dis**	113.6	107.0	106.4	100.5	105.5	107.4
	2–4 Tingkat	**2022**	**Jan**	114.3	107.6	107.1	101.6	106.1	109.1
	(Berbumbung Rata)		**Feb**						
	2–4 Storey (R.C.)		**Mac**						
	Building (Flat Roof)		**Apr**						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.A.3	**Bangunan (K.T.)**	**2021**	**Dis**	114.2	107.7	106.7	101.2	106.9	108.0
	2–4 Tingkat	**2022**	**Jan**	114.9	108.4	107.6	102.3	107.5	109.7
	(Berbumbung Curam)		**Feb**						
	2–4 Storey (R.C.)		**Mac**						
	Building (Pitched Roof)		**Apr**						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 1A: Indeks kos bahan binaan bangunan mengikut kategori bangunan dan kawasan (tanpa bar keluli) (samb.)
Table 1A: Building materials cost index by category of building and region (without steel bars) (cont'd)

(Julai 2017=100)
(July 2017=100)

	Kategori Bangunan *Category of Building*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
1.A.4	**Bangunan (K.T.)**	**2021**	**Dis**	114.8	107.5	106.7	101.1	106.8	107.5
	5 Tingkat dan Lebih	**2022**	**Jan**	115.5	108.3	107.5	102.3	107.5	109.1
	(Untuk Penginapan)		**Feb**						
	5 Storey and Above		**Mac**						
	(R.C.) Building		**Apr**						
	(For Accommodation)		**Mei**						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.A.5	**Bangunan (K.T.)**	**2021**	**Dis**	115.3	108.5	107.5	101.1	106.9	108.8
	5 Tingkat dan Lebih	**2022**	**Jan**	115.9	109.0	108.3	102.2	107.5	110.5
	(Untuk Pejabat)		**Feb**						
	5 Storey and Above		**Mac**						
	(R.C.) Building		**Apr**						
	(For Office)		**Mei**						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.A.6	**Bangunan Kayu**	**2021**	**Dis**	106.8	107.0	106.0	106.1	107.3	106.5
	Timber Building	**2022**	**Jan**	110.6	110.8	109.8	109.9	111.1	110.3
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 1A: Indeks kos bahan binaan bangunan mengikut kategori bangunan dan kawasan (tanpa bar keluli) (samb.)
Table 1A: Building materials cost index by category of building and region (without steel bars) (cont'd)

(Julai 2017=100)
(July 2017=100)

Kategori Bangunan / *Category of Building*	Tempoh / *Period*	Kawasan / *Region* A	B	C	D	E	F
1.A.7 Cerucuk Kayu	**2021 Dis**	106.6	106.6	106.6	106.6	106.6	106.6
Timber Piling	**2022 Jan**	110.8	110.8	110.8	110.8	110.8	110.8
	Feb						
	Mac						
	Apr						
	Mei						
	Jun						
	Jul						
	Ogos						
	Sep						
	Okt						
	Nov						
	Dis						
1.A.8 Cerucuk K.T.	**2021 Dis**	115.7	103.0	106.4	101.6	103.4	105.4
R.C. Piling	**2022 Jan**	116.9	104.0	107.8	103.0	104.4	107.1
	Feb						
	Mac						
	Apr						
	Mei						
	Jun						
	Jul						
	Ogos						
	Sep						
	Okt						
	Nov						
	Dis						

Jadual 1B: Indeks kos bahan binaan bangunan mengikut kategori bangunan dan kawasan (termasuk bar keluli)
Table 1B: Building materials cost index by category of building and region (with steel bars)

(Julai 2017=100)
(July 2017=100)

	Kategori bangunan *Category of building*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
1.B.1	**Bangunan (K.T.)**	**2021**	**Dis**	116.4	118.3	109.6	104.9	114.1	112.3
	Satu Tingkat	**2022**	**Jan**	117.2	119.0	110.4	106.4	114.8	113.8
	Single - Storey (R.C.)		**Feb**						
	Building		**Mac**						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.B.2	**Bangunan (K.T.)**	**2021**	**Dis**	119.2	122.9	112.6	106.3	115.7	113.7
	2–4 Tingkat	**2022**	**Jan**	119.5	123.2	113.2	107.9	116.0	114.6
	(Berbumbung Rata)		**Feb**						
	2–4 Storey (R.C.)		**Mac**						
	Building (Flat Roof)		**Apr**						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.B.3	**Bangunan (K.T.)**	**2021**	**Dis**	119.0	121.7	112.2	106.2	115.5	113.4
	2–4 Tingkat	**2022**	**Jan**	119.4	122.1	112.8	107.7	115.9	114.4
	(Berbumbung Curam)		**Feb**						
	2–4 Storey (R.C.)		**Mac**						
	Building (Pitched Roof)		**Apr**						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 1B: Indeks kos bahan binaan bangunan mengikut kategori bangunan dan kawasan (termasuk bar keluli) (samb.)
Table 1B: Building materials cost index by category of building and region (with steel bars) (cont'd)

(Julai 2017=100)
(July 2017=100)

	Kategori bangunan *Category of building*	Tempoh *Period*		Kawasan *Region*					
				A	**B**	**C**	**D**	**E**	**F**
1.B.4	**Bangunan (K.T.)**	**2021**	**Dis**	120.2	124.3	113.3	107.1	117.1	114.2
	5 Tingkat dan Lebih	**2022**	**Jan**	120.5	124.7	113.8	108.7	117.4	115.0
	(Untuk Penginapan)		**Feb**						
	5 Storey and Above		**Mac**						
	(R.C.) Building		**Apr**						
	(For Accommodation)		**Mei**						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.B.5	**Bangunan (K.T.)**	**2021**	**Dis**	120.4	124.8	113.7	107.1	117.2	114.8
	5 Tingkat dan Lebih	**2022**	**Jan**	120.7	125.1	114.2	108.6	117.5	115.7
	(Untuk Pejabat)		**Feb**						
	5 Storey and Above		**Mac**						
	(R.C.) Building		**Apr**						
	(For Office)		**Mei**						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.B.6	**Bangunan Kayu**	**2021**	**Dis**	106.8	107.0	106.0	106.1	107.3	106.5
	Timber Building	**2022**	**Jan**	110.6	110.8	109.8	109.9	111.1	110.3
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 1B: Indeks kos bahan binaan bangunan mengikut kategori bangunan dan kawasan (termasuk bar keluli) (samb.)
Table 1B: Building materials cost index by category of building and region (with steel bars) (cont'd)

(Julai 2017=100)
(July 2017=100)

	Kategori bangunan *Category of building*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
1.B.7	**Cerucuk Kayu**	**2021**	**Dis**	106.6	106.6	106.6	106.6	106.6	106.6
	Timber Piling	**2022**	**Jan**	110.8	110.8	110.8	110.8	110.8	110.8
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
1.B.8	**Cerucuk K.T.**	**2021**	**Dis**	118.7	114.5	110.4	105.1	110.6	110.0
	R.C. Piling	**2022**	**Jan**	119.5	115.2	111.5	106.7	111.4	111.3
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 2: **Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis, lengkapan kebersihan, jubin lantai & dinding, bahan kerja paip, keratan keluli & logam, pasir dan cat**

Table 2: *Unit price index for cement, steel, bricks & wall, glass, aggregates, ceiling materials, roofing materials, timber, plywood, sanitary fittings, floor & wall tiles, plumbing materials, steel & metal sections, sand and paints*

(Julai 2017=100)
(July 2017=100)

	Bahan *Item*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
Bahan Binaan *Building Materials*									
2.1	**Simen** *Cement*	**2021**	**Dis**	117.5	102.9	111.2	103.2	106.4	109.0
		2022	**Jan**	117.7	102.9	111.9	103.5	106.4	110.0
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.2	**Besi** *Steel*	**2021**	**Dis**	125.9	142.2	120.2	113.5	128.0	121.3
		2022	**Jan**	125.9	142.2	120.5	115.5	128.0	121.3
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.3	**Batu Bata & Dinding** *Bricks & Wall*	**2021**	**Dis**	116.4	108.7	106.6	97.8	107.3	111.2
		2022	**Jan**	116.9	111.9	107.3	102.6	108.1	111.6
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 2: Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis, lengkapan kebersihan, jubin lantai & dinding, bahan kerja paip, keratan keluli & logam, pasir dan cat (samb.)

Table 2: Unit price index for cement, steel, bricks & wall, glass, aggregates, ceiling materials, roofing materials, timber, plywood, sanitary fittings, floor & wall tiles, plumbing materials, steel & metal sections, sand and paints (cont'd)

(Julai 2017=100)
(July 2017=100)

	Bahan *Item*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
Bahan Binaan *Building Materials*									
2.4	**Kaca** *Glass*	**2021**	**Dis**	103.2	110.1	118.6	100.1	101.9	121.4
		2022	**Jan**	105.7	110.1	122.8	104.1	103.6	121.4
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.5	**Batu Baur** *Aggregates*	**2021**	**Dis**	124.5	97.2	95.9	93.9	96.1	104.2
		2022	**Jan**	124.5	97.2	96.6	95.9	96.1	104.2
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.6	**Bahan Siling** *Ceiling Materials*	**2021**	**Dis**	108.5	105.4	100.9	109.6	112.0	103.8
		2022	**Jan**	110.2	105.4	101.8	111.4	114.0	103.8
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 2: Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis, lengkapan kebersihan, jubin lantai & dinding, bahan kerja paip, keratan keluli & logam, pasir dan cat (samb.)

Table 2: Unit price index for cement, steel, bricks & wall, glass, aggregates, ceiling materials, roofing materials, timber, plywood, sanitary fittings, floor & wall tiles, plumbing materials, steel & metal sections, sand and paints (cont'd)

(Julai 2017=100)
(July 2017=100)

	Bahan *Item*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
Bahan Binaan *Building Materials*									
2.7	**Bahan Bumbung** *Roofing Materials*	**2021**	**Dis**	100.0	112.2	94.8	104.2	117.3	100.7
		2022	**Jan**	100.0	113.4	96.6	104.5	117.3	100.9
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.8.a	**Kayu** *Timber*	**2021**	**Dis**	106.6	106.6	106.6	106.6	106.6	106.6
		2022	**Jan**	110.8	110.8	110.8	110.8	110.8	110.8
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.8.b	**Papan Lapis** *Plywood*	**2021**	**Dis**	94.5	94.5	94.5	94.5	94.5	94.5
		2022	**Jan**	94.5	94.5	94.5	94.5	94.5	94.5
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 2: **Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis, lengkapan kebersihan, jubin lantai & dinding, bahan kerja paip, keratan keluli & logam, pasir dan cat (samb.)**

Table 2: *Unit price index for cement, steel, bricks & wall, glass, aggregates, ceiling materials, roofing materials, timber, plywood, sanitary fittings, floor & wall tiles, plumbing materials, steel & metal sections, sand and paints (cont'd)*

(Julai 2017=100)
(July 2017=100)

	Bahan *Item*	Tempoh *Period*		Kawasan *Region*					
				A	B	C	D	E	F
Bahan Binaan *Building Materials*									
2.9	**Lengkapan Kebersihan** *Sanitary Fittings*	**2021**	**Dis**	101.6	122.1	96.6	100.3	152.4	105.0
		2022	**Jan**	102.3	126.1	96.6	100.6	152.4	107.2
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.10	**Jubin Lantai & Dinding** *Floor & Wall Tiles*	**2021**	**Dis**	102.1	113.8	98.6	100.0	112.0	120.7
		2022	**Jan**	104.5	115.4	98.8	100.0	112.0	127.2
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						
2.11	**Bahan Kerja Paip** *Plumbing Materials*	**2021**	**Dis**	119.7	118.9	103.6	99.2	117.5	108.9
		2022	**Jan**	120.7	119.5	104.6	100.3	120.0	112.0
			Feb						
			Mac						
			Apr						
			Mei						
			Jun						
			Jul						
			Ogos						
			Sep						
			Okt						
			Nov						
			Dis						

Jadual 2: **Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis, lengkapan kebersihan, jubin lantai & dinding, bahan kerja paip, keratan keluli & logam, pasir dan cat (samb.)**

Table 2: *Unit price index for cement, steel, bricks & wall, glass, aggregates, ceiling materials, roofing materials, timber, plywood, sanitary fittings, floor & wall tiles, plumbing materials, steel & metal sections, sand and paints (cont'd)*

(Julai 2017=100)
(July 2017=100)

	Bahan *Item*	Tempoh *Period*	Kawasan *Region*					
			A	B	C	D	E	F
Bahan Binaan *Building Materials*								
2.12	**Keratan Keluli & Logam** *Steel & Metal Sections*	**2021 Dis**	145.7	151.4	127.3	100.4	123.0	138.5
		2022 Jan	146.1	152.2	128.5	105.0	124.9	143.7
		Feb						
		Mac						
		Apr						
		Mei						
		Jun						
		Jul						
		Ogos						
		Sep						
		Okt						
		Nov						
		Dis						
2.13	**Pasir** *Sand*	**2021 Dis**	142.3	112.3	111.5	101.3	102.3	100.4
		2022 Jan	143.2	112.3	112.2	101.8	103.0	104.2
		Feb						
		Mac						
		Apr						
		Mei						
		Jun						
		Jul						
		Ogos						
		Sep						
		Okt						
		Nov						
		Dis						
2.14	**Cat** *Paints*	**2021 Dis**	112.9	108.1	106.1	112.6	106.8	107.7
		2022 Jan	115.2	108.8	106.7	112.6	108.5	110.0
		Feb						
		Mac						
		Apr						
		Mei						
		Jun						
		Jul						
		Ogos						
		Sep						
		Okt						
		Nov						
		Dis						

Jadual 3: **Indeks harga seunit bagi cerucuk keping jenis 'U', keratan geronggang segi empat sama, keratan geronggang segi empat tepat, rasuk semesta, gelegar keluli guling, sesiku sama, sesiku tak sama, sesalur 'U' dan sesalur bibir**

Table 3: *Unit price index for 'U' type sheet piles, square hollow sections, rectangular hollow sections, universal beams, rolled steel joists, equal angles, unequal angles, 'U' channels and lipped channels*

(Julai 2017=100)

(July 2017=100)

	Bahan *Item*	**Tempoh** *Period*		**Selangor dan Wilayah Persekutuan Kuala Lumpur**
Keluli Struktur *Structural Steel*				
3.1	**Cerucuk Keping Jenis U** *U Type Sheet Piles*	**2021**	**Dis**	131.0
		2022	**Jan**	131.0
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	
3.2	**Keratan Geronggang Segi Empat Sama** *Square Hollow Sections*	**2021**	**Dis**	139.8
		2022	**Jan**	142.8
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	
3.3	**Keratan Geronggang Segi Empat Tepat** *Rectangular Hollow Sections*	**2021**	**Dis**	132.3
		2022	**Jan**	133.4
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	

Jadual 3: **Indeks harga seunit bagi cerucuk keping jenis 'U', keratan geronggang segi empat sama, keratan geronggang segi empat tepat, rasuk semesta, gelegar keluli guling, sesiku sama, sesiku tak sama, sesalur 'U' dan sesalur bibir (samb.)**

Table 3: *Unit price index for 'U' type sheet piles, square hollow sections, rectangular hollow sections, universal beams, rolled steel joists, equal angles, unequal angles, 'U' channels and lipped channels (cont'd)*

(Julai 2017=100)

(July 2017=100)

	Bahan *Item*	**Tempoh** *Period*		**Selangor dan Wilayah Persekutuan Kuala Lumpur**
Keluli Struktur *Structural Steel*				
3.4	**Rasuk Semesta**	**2021**	**Dis**	118.2
	Universal Beams	**2022**	**Jan**	118.2
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	
3.5	**Gelegar Keluli Guling**	**2021**	**Dis**	136.3
		2022	**Jan**	136.3
	Rolled Steel Joists		**Feb**	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	
3.6	**Sesiku Sama**	**2021**	**Dis**	134.7
	Equal Angles	**2022**	**Jan**	140.0
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	

Jadual 3: **Indeks harga seunit bagi cerucuk keping jenis 'U', keratan geronggang segi empat sama, keratan geronggang segi empat tepat, rasuk semesta, gelegar keluli guling, sesiku sama, sesiku tak sama, sesalur 'U' dan sesalur bibir (samb.)**

Table 3: *Unit price index for 'U' type sheet piles, square hollow sections, rectangular hollow sections, universal beams, rolled steel joists, equal angles, unequal angles, 'U' channels and lipped channels (cont'd)*

(Julai 2017=100)

(July 2017=100)

	Bahan *Item*	**Tempoh** *Period*		**Selangor dan Wilayah Persekutuan Kuala Lumpur**
Keluli Struktur *Structural Steel*				
3.7	**Sesiku Tak Sama** *Unequal Angles*	**2021**	**Dis**	135.1
		2022	**Jan**	135.1
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	
3.8	**Sesalur U** *U Channels*	**2021**	**Dis**	128.1
		2022	**Jan**	129.3
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	
3.9	**Sesalur Bibir** *Lipped Channels*	**2021**	**Dis**	128.3
		2022	**Jan**	129.4
			Feb	
			Mac	
			Apr	
			Mei	
			Jun	
			Jul	
			Ogos	
			Sep	
			Okt	
			Nov	
			Dis	

NOTA TEKNIKAL

TECHNICAL NOTES

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NOTA TEKNIKAL

1. Indeks Kos Bahan Binaan Bangunan (IKB) adalah suatu indeks yang dibentuk untuk mengukur kadar perubahan purata harga 15 bahan binaan terpilih yang digunakan dalam 8 kategori bangunan untuk 6 Kawasan di Semenanjung Malaysia. IKB dibentuk berasaskan formula *Laspeyres.*

2. IKB digunakan dalam Pelaksanaan Syarat Perubahan Harga dalam kontrak-kontrak kerja bangunan kerajaan sahaja. Spesifikasi dan pemberat untuk 15 bahan binaan terpilih mengikut 8 kategori bangunan disediakan oleh Jabatan Kerja Raya (JKR).

3. Indeks harga yang dilaporkan mengikut 6 kawasan seperti berikut:

   A = Pulau Pinang, Kedah dan Perlis

   B = Perak

   C = Selangor, Wilayah Persekutuan Kuala Lumpur, Melaka dan Negeri Sembilan

   D = Johor

   E = Pahang

   F = Kelantan dan Terengganu

4. Bermula penerbitan Julai 2018, indeks ini berasaskan kepada tahun asas yang ditukar daripada (Julai 2012=100) kepada (Julai 2017=100) serta pemilihan spesifikasi bahan binaan baharu dan pemberat yang dikemaskini oleh JKR.

5. Bagi kontrak-kontrak yang telah ditandatangani sebelum Julai 2018, sila lihat 'Jadual faktor pelarasan' **(Lampiran A dan B)** dan 'Contoh mengira Indeks Lama Kos Bahan Binaan Bangunan' **(Lampiran C)** untuk panduan dalam Pelaksanaan Syarat Perubahan Harga. Bagi kontrak-kontrak mulai Julai 2018 dan seterusnya, indeks baru hendaklah digunakan terus tanpa sebarang pelarasan.

TECHNICAL NOTES

1. The Building Materials Cost Index (BCI) is an index designed to measure the average rate of change in prices for 15 selected building materials utilized in 8 building categories for 6 regions in Peninsular Malaysia. The BCI is based on the Laspeyres formula.

2. The BCI is used in Special Provisions to the Conditions of Contract (Variation of Price) in government building contracts only. The specifications and weightage for 15 selected building materials in 8 building categories are provided by Public Works Department (JKR).

3. Prices index reported according to 6 regions as follows:

   A = Pulau Pinang, Kedah and Perlis

   B = Perak

   C = Selangor, Wilayah Persekutuan Kuala Lumpur, Melaka and Negeri Sembilan

   D = Johor

   E = Pahang

   F = Kelantan and Terengganu

4. Starting from July 2018 publication, the series is based on the revised base year which has been changed from (July 2012=100) to (July 2017=100) as well as the selection of new building material specifications and weightage updated by JKR.

*5. For contracts signed before July 2018, please refer to the 'Adjustment factor table' **(Appendix A and B)** and the 'Example for calculating the Old Building Materials Cost Index' **(Appendix C)** for the implementation of the Variation of Price. For contracts commencing July 2018 and thereafter, the new index is to be used without any further adjustment.*

NOTA TEKNIKAL (samb.)

6. Pengiraan perubahan indeks

a. IKB mengukur perubahan harga dari suatu tempoh rujukan yang ditetapkan, iaitu (Julai 2017=100).

b. Pergerakan IKB dari satu bulan ke satu bulan yang lain dinyatakan sebagai perubahan peratus dan bukan perubahan mata indeks *(index points)* kerana perubahan mata indeks dipengaruhi oleh aras indeks yang berkaitan dengan tempoh asasnya, manakala perubahan peratus tidak mempunyai pengaruh sedemikian. Contoh berikut menunjukkan cara pengiraan perubahan peratus mata indeks dan perubahan peratus.

7. Perubahan Mata Indeks

Indeks Kos Bahan Binaan Bangunan	130.5
Tolak indeks sebelumnya	129.3
	1.2

8. Perubahan Peratus

Perubahan mata indeks dibahagi dengan indeks sebelumnya, didarab dengan 100.

$$\frac{130.5 - 129.3}{129.3} \times 100 = 0.9\%$$

TECHNICAL NOTES (cont'd)

6. Index change calculation

a. The BCI measures price changes from a designated period, i.e. (July 2017=100).

b. Movements of the BCI from one month to another are expressed as percentage changes rather than changes in index points because index point changes are affected by the level of the index in relation to its base period while percentage changes are not. The following example illustrates the computation of index point and percentage changes.

7. Index Point Change

Building Materials Cost Index	130.5
Less previous index	129.3
	1.2

8. Percentage Change

Index point difference divided by the previous index, multiplied by 100.

$$\frac{130.5 - 129.3}{129.3} \times 100 = 0.9\%$$

SINGKATAN/SIMBOL

K.T	=	Konkrit Bertetulang
n.a	=	Tidak diperoleh
r	=	Kemaskini

ABBREVIATION/SYMBOLS

R.C	=	*Reinforced Concrete*
n.a	=	*Not available*
r	=	*Revised*

LAMPIRAN

APPENDIX

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Lampiran A
Appendix A

Jadual faktor pelarasan (Indeks tanpa bar keluli)
Adjustment factor table (Index without steel bars)

Kategori *Category*	**Faktor pelarasan mengikut kawasan** *Adjustment factor by region*					
	A	**B**	**C**	**D**	**E**	**F**
1. Bangunan (K.T.) Satu Tingkat *Single Storey (R.C.) Building*	1.1339	1.1497	1.1464	1.1360	1.1870	1.1414
2. Bangunan (K.T.) 2–4 Tingkat (Berbumbung Rata) *2–4 Storey (R.C) Building (flat roof)*	1.1108	1.1326	1.1344	1.1219	1.1775	1.1268
3. Bangunan (K.T.) 2–4 Tingkat (Berbumbung Curam) *2–4 Storey (R.C.) Building (Pitched Roof)*	1.1152	1.1395	1.1412	1.1285	1.1825	1.1301
4. Bangunan (K.T.) 5 Tingkat dan Lebih (Untuk Penginapan) *5 Storey and Above (R.C.) Building (For Accommodation)*	1.1070	1.1312	1.1299	1.1191	1.1635	1.1177
5. Bangunan (K.T) 5 tingkat dan lebih (untuk pejabat) *5 Storey and above (R.C) Building (for office)*	1.1028	1.1291	1.1307	1.1193	1.1958	1.1242
6. Bangunan Kayu *Timber Building*	1.1973	1.1994	1.1985	1.1971	1.2120	1.1979
7. Cerucuk Kayu *Timber Piling*	1.2266	1.2266	1.2266	1.2266	1.2266	1.2266
8. Cerucuk (K.T) *(R.C.) Piling*	1.0648	1.1052	1.1173	1.1167	1.1283	1.0665

Lampiran B
Appendix B

Jadual faktor pelarasan (Indeks termasuk bar keluli)
Adjustment factor table (Index with steel bars)

Kategori *Category*	**Faktor pelarasan mengikut kawasan** *Adjustment factor by region*					
	A	**B**	**C**	**D**	**E**	**F**
1. Bangunan (K.T.) Satu Tingkat *Single Storey (R.C.) Building*	1.1028	1.1015	1.0988	1.1223	1.1441	1.1134
2. Bangunan (K.T.) 2–4 Tingkat (Berbumbung Rata) *2–4 Storey (R.C.) Building (Flat Roof)*	1.0601	1.0490	1.0520	1.0919	1.1020	1.0740
3. Bangunan (K.T.) 2–4 Tingkat (Berbumbung Curam) *2–4 Storey (R.C.) Building (Pitched Roof)*	1.0699	1.0648	1.0649	1.1040	1.1124	1.0838
4. Bangunan (K.T.) 5 Tingkat dan Lebih (Untuk Penginapan) *5 Storey and Above (R.C.) Building (For Accommodation)*	1.0559	1.0439	1.0431	1.0875	1.0849	1.0656
5. Bangunan (K.T.) 5 Tingkat dan Lebih (Untuk Pejabat) *5 Storey and Above (R.C.) Building (for Office)*	1.0529	1.0420	1.0440	1.0866	1.1120	1.0686
6. Bangunan Kayu *Timber Building*	1.1973	1.1994	1.1985	1.1971	1.2120	1.1979
7. Cerucuk Kayu *Timber Piling*	1.2266	1.2266	1.2266	1.2266	1.2266	1.2266
8. Cerucuk (K.T.) *(R.C.) Piling*	1.0442	1.0545	1.0735	1.0554	1.1071	1.0423

Contoh pengiraan indeks lama IKB (Julai 2012=100) dengan menggunakan indeks baru IKB (Julai 2017=100)

1. Contoh mengira indeks lama (tanpa bar keluli) bagi bulan Julai 2017 untuk kategori Bangunan (K.T) Satu Tingkat bagi kawasan A adalah seperti berikut:

   ^{j}**I** lama Julai 2017 = FP (seperti di **Lampiran A**) x ^{j}**I** baru Julai 2017

   iaitu, indeks lama Julai 2017:
   = 1.1339 x 100.0
   = 113.39
   = 113.4

2. Contoh mengira indeks lama (termasuk bar keluli) bagi bulan Julai 2017 untuk kategori Bangunan Kayu bagi kawasan F adalah seperti berikut:

   ^{j}**I** lama Julai 2017 = FP (seperti di **Lampiran B**) x ^{j}**I** baru Julai 2017

   iaitu, indeks lama Julai 2017:
   = 1.1979 x 100.0
   = 119.79
   = 119.8

   di mana,
   FP = Faktor Pelarasan
   ^{j}**I** = Indeks bagi kategori bangunan j
   j = 1, …… 8

Example for calculating the old BCI (July 2012=100) using the new index BCI (July 2017=100)

1. *Example for calculating the old index (without steel bars) for the month of July 2017 for Single Storey (R.C) Building in region A is as follows:*

   *Old ^{j}**I** for July 2017 = AF (as in **Appendix A**) x new ^{j}**I** for July 2017*

   i.e. old index for July 2017:
   = 1.1339 x 100.0
   = 113.39
   = 113.4

2. *Example for calculating the old index (with steel bars) for the month of July 2017 for Timber Building in region F is as follows:*

   *Old ^{j}**I** for July 2017 = AF (as in **Appendix B**) x new ^{j}**I** for July 2017*

   i.e. old index for July 2017:
   = 1.1979 x 100.0
   = 119.79
   = 119.8

   where,
   AF = Adjustment Factor
   ^{j}***I*** = *Index for building category j*
   j = *1,…… 8*

Lampiran D
Appendix D

Sasaran Tarikh Pengumuman Siaran Khas 2
(Untuk Kerja-Kerja Pembinaan Bangunan dan Struktur), Semenanjung Malaysia, 2022
Scheduled Release Dates for Special Release 2
(For Building and Structural Works), Peninsular Malaysia, 2022

Tahun *Year*	**Bulan Rujukan** *Reference Month*	**Tahun** *Year*	**Tarikh Pengumuman** *Release Date*
2022	**Januari** *January*	**2022**	**10 Februari** *10 February*
	Februari *February*		**10 Mac** *10 March*
	Mac *March*		**08 April** *08 April*
	April *April*		**11 Mei** *11 May*
	Mei *May*		**09 Jun** *09 June*
	Jun *June*		**07 Julai** *07 July*
	Julai *July*		**10 Ogos** *10 August*
	Ogos *August*		**08 September** *08 September*
	September *September*		**11 Oktober** *11 October*
	Oktober *October*		**09 November** *09 November*
	November *November*		**08 Disember** *08 December*
	Disember *December*	**2023**	**09 Januari** *09 January*