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Special Release

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

DISEMBER 2021
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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.

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JABATAN PERANGKAAN MALAYSIA
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Pusat Pentadbiran Kerajaan Persekutuan,

62514 Putrajaya,

MALAYSIA

Tel. : 03-8885 7000
Faks : 03-8888 9248
Portal : <https://www.dosm.gov.my>
Facebook / Twitter / Instagram : StatsMalaysia
Emel / E-mail : info@dosm.gov.my (pertanyaan umum / general enquiries)
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RINGKASAN PENEMUAN

INDEKS KOS BAHAN BINAAN BANGUNAN (JULAI 2017=100) DISEMBER 2021

Semenanjung Malaysia

Indeks Kos Bahan Binaan bagi semua kawasan di Semenanjung Malaysia merekodkan peningkatan di antara 0.3 dan 3.1 peratus bagi semua kategori bangunan pada Disember 2021 berbanding pada bulan sebelumnya (**Jadual 1A dan Jadual 1B**).

Indeks harga seunit bahan binaan yang menunjukkan perubahan adalah Simen di kawasan A (1.9 mata), B (0.6 mata), C (1.4 mata), D (0.8 mata), E (0.9 mata) dan F (1.5 mata); Besi di kawasan A (0.2 mata), C (1.3 mata) dan D (4.8 mata); Batu baur di kawasan A (1.3 mata), D (0.2 mata) dan F (3.3 mata); Pasir di kawasan C (0.5 mata) dan D (1.9 mata); Batu bata & dinding di kawasan A (0.2 mata), B (3.6 mata), C (1.2 mata), D (2.6 mata), E (1.1 mata) dan F (0.9 mata); Kayu bagi semua kawasan di Semenanjung Malaysia (1.4 mata); Bahan bumbung di kawasan A (0.4 mata), B (1.2 mata), C (0.2 mata) dan D (1.7 mata); Bahan siling di kawasan A (0.5 mata), B (0.5 mata), C (0.1 mata), D (3.0 mata) dan E (2.0 mata); Keratan keluli & logam di kawasan A (2.0 mata), B (0.3 mata), C (1.9 mata), D (3.7 mata) dan E (3.1 mata); Bahan kerja paip di kawasan A (0.8 mata), C (0.9 mata), D (0.7 mata), E (3.7 mata) dan F (2.1 mata); Jubin lantai & dinding di kawasan B (1.2 mata), C (0.1 mata), E (2.5 mata) dan F (3.2 mata); Lengkapan kebersihan di kawasan A (0.1 mata), B (3.6 mata), D (0.2 mata) dan F (2.6 mata); Kaca di kawasan A (3.7 mata), B (0.7 mata), C (3.1 mata), D (1.4 mata) dan F (0.2 mata); Cat di kawasan A (3.6 mata), B (0.1 mata), C (0.8 mata), D (1.7 mata), E (2.5 mata) dan F (0.1 mata); dan Papan lapis bagi semua kawasan di Semenanjung Malaysia (0.7 mata) (**Jadual 2**).

Indeks harga seunit bagi semua keluli struktur di Selangor dan W.P. Kuala Lumpur yang menunjukkan perubahan adalah Cerucuk Keping Jenis U (1.0 mata), Keratan Geronggang Segi Empat Sama (3.1 mata), Keratan Geronggang Segi Empat Tepat (1.8 mata), Sesiku Sama (4.3 mata), Sesiku Tak Sama (2.5 mata), Sesalur U (3.1 mata) dan Sesalur Bibir (3.0 mata) (**Jadual 3**).

SUMMARY OF FINDINGS

BUILDING MATERIAL COST INDEX (JULY 2017=100)

DECEMBER 2021

Peninsular Malaysia

The BCI for all region in Peninsular Malaysia recorded an increase between 0.3 and 3.1 per cent for all building categories in December 2021 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 (1.9 points), B (0.6 points), C (1.4 points), D (0.8 points), E (0.9 points) and F (1.5 points); Steel in regions A (0.2 points), C (1.3 points) and D (4.8 points); Aggregates in regions A (1.3 points), D (0.2 points) and F (3.3 points); Sand in regions C (0.5 points) and D (1.9 points); Bricks & wall in regions A (0.2 points), B (3.6 points), C (1.2 points), D (2.6 points), E (1.1 points) and F (0.9 points); Timber for all regions in Peninsular Malaysia (1.4 points); Roofing materials in regions A (0.4 points), B (1.2 points), C (0.2 points) and D (1.7 points); Ceiling materials in regions A (0.5 points), B (0.5 points), C (0.1 points), D (3.0 points) and E (2.0 points); Steel & metal sections in regions A (2.0 points), B (0.3 points), C (1.9 points), D (3.7 points) and E (3.1 points); Plumbing materials in regions A (0.8 points), C (0.9 points), D (0.7 points), E (3.7 points) dan F (2.1 points); Floor & wall tiles in regions B (1.2 points), C (0.1 points), E (2.5 points) and F (3.2 points); Sanitary fittings in regions A (0.1 points), B (3.6 points), D (0.2 points) and F (2.6 points); Glass in regions A (3.7 points), B (0.7 points), C (3.1 points), D (1.4 points) and F (0.2 points); and Paint in regions A (3.6 points), B (0.1 points), C (0.8 points), D (1.7 points), E (2.5 points) and F (0.1 points); and Plywood for all regions in Peninsular Malaysia (0.7 points) **(Table 2)**.

The unit price indices for all structural steel in Selangor and W.P. Kuala Lumpur that showed changes were U type Sheet Piles (1.0 points), Square Hollow Section (3.1 points), Rectangular Hollow Sections (1.8 points), Equal Angles (4.3 points), Unequal Angles (2.5 points), U Channels (3.1 points) and Lipped Channels (3.0 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.) Satu Tingkat Single - Storey (R.C.) Building	2020 Dis	102.6	100.6	101.3	98.6	102.1	101.6
	2021 Jan	103.7	100.9	101.5	98.7	101.7	101.5
	Feb	104.2	100.8	101.9	98.8	100.7	102.0
	Mac	105.1	100.9	102.1	99.5	100.9	102.2
	Apr	106.4	102.1	102.5	99.7	101.7	103.4
	Mei	107.1	102.9	102.8	99.8	102.4	104.4
	Jun	107.7	104.0	103.1	100.0	102.7	105.0
	Jul	108.6	104.8	103.0	100.0	103.8	105.9
	Ogos	109.6	105.6	102.9	100.0	104.3	106.4
	Sep	110.1	106.8	103.3	100.1	105.0	107.0
	Okt	110.4	107.8	103.6	100.1	106.3	107.2
	Nov	111.6	109.1	104.8	100.6	107.7	108.0
	Dis	113.1	110.0	105.9	101.9	109.2	109.2
1.A.2 Bangunan (K.T.) 2-4 Tingkat (Berbumbung Rata) 2-4 Storey (R.C.) Building (Flat Roof)	2020 Dis	102.6	98.8	101.5	97.1	100.6	100.6
	2021 Jan	103.7	99.1	101.9	97.1	99.9	99.9
	Feb	104.1	98.6	102.3	97.3	98.2	100.2
	Mac	105.0	98.4	102.4	97.8	98.4	100.3
	Apr	106.4	99.5	102.7	98.0	98.8	101.4
	Mei	107.2	100.3	103.0	98.1	99.2	102.4
	Jun	108.1	101.4	103.4	98.6	99.7	102.9
	Jul	109.1	102.1	103.4	98.5	100.9	104.2
	Ogos	110.3	102.9	103.2	98.5	101.5	104.8
	Sep	110.8	104.4	103.7	98.6	102.0	105.1
	Okt	111.1	105.2	103.9	98.6	103.1	105.3
	Nov	112.2	106.1	105.2	99.3	104.2	106.3
	Dis	113.6	107.0	106.4	100.5	105.5	107.4
1.A.3 Bangunan (K.T.) 2-4 Tingkat (Berbumbung Curam) 2-4 Storey (R.C.) Building (Pitched Roof)	2020 Dis	103.5	99.5	102.0	97.7	101.3	101.3
	2021 Jan	104.6	99.8	102.3	97.7	100.5	100.5
	Feb	105.0	99.2	102.6	97.9	98.6	100.8
	Mac	105.8	99.0	102.8	98.5	98.8	100.9
	Apr	107.1	100.2	103.0	98.8	99.4	102.0
	Mei	107.8	100.9	103.3	98.8	99.8	103.0
	Jun	108.5	101.8	103.5	99.2	100.2	103.4
	Jul	109.6	102.5	103.5	99.1	101.6	104.7
	Ogos	110.8	103.2	103.3	99.1	102.3	105.2
	Sep	111.4	104.8	103.8	99.2	102.9	105.6
	Okt	111.6	105.8	104.1	99.2	104.2	105.7
	Nov	112.7	106.8	105.6	99.9	105.5	106.8
	Dis	114.2	107.7	106.7	101.2	106.9	108.0

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.) 5 Tingkat dan Lebih (Untuk Penginapan) 5 Storey and Above (R.C.) Building (For Accommodation)	2020 Dis	103.7	99.4	101.9	97.7	101.1	101.2
	2021 Jan	104.9	99.6	102.2	97.7	100.3	100.6
	Feb	105.3	99.1	102.5	97.8	98.6	100.9
	Mac	106.1	99.0	102.6	98.3	98.8	101.0
	Apr	107.5	100.2	102.9	98.6	99.4	101.8
	Mei	108.2	100.9	103.1	98.7	99.8	102.7
	Jun	109.0	101.8	103.4	99.0	100.2	103.0
	Jul	110.1	102.5	103.4	99.0	101.6	104.4
	Ogos	111.3	103.2	103.3	99.0	102.4	104.9
	Sep	111.8	104.7	103.8	99.1	102.9	105.2
	Okt	112.0	105.5	104.1	99.1	104.1	105.3
	Nov	113.3	106.6	105.6	99.8	105.4	106.4
	Dis	114.8	107.5	106.7	101.1	106.8	107.5
1.A.5 Bangunan (K.T.) 5 Tingkat dan Lebih (Untuk Pejabat) 5 Storey and Above (R.C.) Building (For Office)	2020 Dis	103.5	99.3	102.4	97.5	101.6	101.3
	2021 Jan	104.8	99.6	102.8	97.5	100.6	100.4
	Feb	105.2	98.9	103.2	97.7	98.6	100.7
	Mac	106.2	98.7	103.4	98.4	98.8	100.8
	Apr	107.6	100.0	103.7	98.6	99.3	102.0
	Mei	108.5	100.9	104.0	98.6	99.8	103.2
	Jun	109.3	102.0	104.3	99.0	100.2	103.7
	Jul	110.4	102.9	104.3	99.0	101.5	105.3
	Ogos	111.7	103.9	104.1	99.0	102.1	105.9
	Sep	112.4	105.7	104.6	99.0	102.8	106.3
	Okt	112.6	106.7	104.9	99.1	104.1	106.4
	Nov	113.7	107.7	106.3	99.8	105.5	107.6
	Dis	115.3	108.5	107.5	101.1	106.9	108.8
1.A.6 Bangunan Kayu Timber Building	2020 Dis	99.2	99.3	99.0	99.1	99.5	99.2
	2021 Jan	101.1	101.1	100.8	100.9	101.3	101.1
	Feb	102.8	102.8	102.5	102.5	102.9	102.8
	Mac	104.6	104.6	104.2	104.4	104.6	104.6
	Apr	104.8	104.7	104.3	104.4	104.8	104.6
	Mei	104.9	104.9	104.4	104.5	105.0	104.7
	Jun	105.5	105.5	104.9	105.0	105.5	105.3
	Jul	104.9	105.0	104.3	104.4	105.0	104.8
	Ogos	105.2	105.2	104.4	104.5	105.3	105.0
	Sep	105.2	105.3	104.5	104.6	105.4	105.1
	Okt	105.2	105.4	104.5	104.6	105.6	105.1
	Nov	105.4	105.6	104.6	104.6	105.8	105.1
	Dis	106.8	107.0	106.0	106.1	107.3	106.5

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 Timber Piling	2020 Dis	99.1	99.1	99.1	99.1	99.1	99.1
	2021 Jan	101.1	101.1	101.1	101.1	101.1	101.1
	Feb	103.0	103.0	103.0	103.0	103.0	103.0
	Mac	105.0	105.0	105.0	105.0	105.0	105.0
	Apr	105.0	105.0	105.0	105.0	105.0	105.0
	Mei	105.1	105.1	105.1	105.1	105.1	105.1
	Jun	105.6	105.6	105.6	105.6	105.6	105.6
	Jul	104.9	104.9	104.9	104.9	104.9	104.9
	Ogos	105.1	105.1	105.1	105.1	105.1	105.1
	Sep	105.1	105.1	105.1	105.1	105.1	105.1
	Okt	105.1	105.1	105.1	105.1	105.1	105.1
	Nov	105.1	105.1	105.1	105.1	105.1	105.1
	Dis	106.6	106.6	106.6	106.6	106.6	106.6
1.A.8 Cerucuk K.T. R.C. Piling	2020 Dis	104.0	98.9	102.1	97.9	100.5	100.5
	2021 Jan	105.0	99.4	102.6	98.0	99.7	99.5
	Feb	105.6	98.8	103.1	98.6	97.9	99.9
	Mac	106.6	98.8	103.5	99.4	98.3	100.4
	Apr	107.8	99.3	103.5	99.7	98.3	100.8
	Mei	108.3	99.7	103.5	99.7	98.3	101.4
	Jun	109.0	100.0	103.5	100.0	98.6	101.4
	Jul	109.7	99.8	103.3	99.8	99.7	102.4
	Ogos	111.5	99.9	103.2	99.9	100.8	102.6
	Sep	112.2	101.4	103.7	99.9	100.8	102.6
	Okt	112.8	102.0	103.9	99.9	101.7	102.6
	Nov	114.1	102.3	105.2	100.7	102.6	103.8
	Dis	115.7	103.0	106.4	101.6	103.4	105.4

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.) Satu Tingkat Single - Storey (R.C.) Building	2020 Dis	104.0	102.9	103.3	99.2	102.6	101.0
	2021 Jan	105.7	103.1	103.9	99.2	103.5	102.2
	Feb	106.4	103.1	104.2	99.4	103.9	103.9
	Mac	108.1	103.1	104.4	100.7	105.2	104.2
	Apr	109.9	105.6	104.6	101.4	106.8	105.3
	Mei	111.0	107.7	104.9	101.5	107.5	106.1
	Jun	111.4	110.1	105.3	101.7	107.8	107.8
	Jul	112.9	112.2	105.3	101.6	109.9	109.5
	Ogos	113.7	113.8	105.2	101.6	110.3	110.1
	Sep	114.1	114.8	106.0	101.7	110.9	110.7
	Okt	114.3	116.7	106.9	101.7	111.9	110.8
	Nov	115.2	117.6	108.4	102.6	113.0	111.4
	Dis	116.4	118.3	109.6	104.9	114.1	112.3
1.B.2 Bangunan (K.T.) 2-4 Tingkat (Berbumbung Rata) 2-4 Storey (R.C.) Building (Flat Roof)	2020 Dis	105.1	103.6	104.9	98.7	102.1	100.0
	2021 Jan	107.1	103.8	105.9	98.7	103.8	101.9
	Feb	108.1	103.5	106.1	99.0	105.0	104.4
	Mac	110.4	103.4	106.2	100.7	107.0	104.7
	Apr	112.6	106.7	106.4	101.8	109.0	105.6
	Mei	113.9	109.9	106.5	101.8	109.7	106.2
	Jun	114.3	113.2	107.1	102.1	109.9	108.8
	Jul	116.5	116.3	107.1	102.0	112.9	111.3
	Ogos	117.2	118.4	107.0	102.0	113.2	112.0
	Sep	117.5	119.4	108.2	102.1	113.6	112.4
	Okt	117.6	121.9	109.5	102.1	114.2	112.4
	Nov	118.3	122.4	111.3	103.3	115.0	113.0
	Dis	119.2	122.9	112.6	106.3	115.7	113.7
1.B.3 Bangunan (K.T.) 2-4 Tingkat (Berbumbung Curam) 2-4 Storey (R.C.) Building (Pitched Roof)	2020 Dis	105.4	103.6	104.9	98.9	102.4	100.5
	2021 Jan	107.3	103.8	105.8	98.9	103.8	102.1
	Feb	108.2	103.4	106.0	99.2	104.6	104.3
	Mac	110.3	103.3	106.1	100.9	106.4	104.6
	Apr	112.4	106.4	106.2	101.8	108.3	105.6
	Mei	113.6	109.3	106.4	101.9	109.0	106.2
	Jun	114.0	112.3	106.8	102.1	109.2	108.5
	Jul	116.0	115.1	106.8	102.0	112.1	110.9
	Ogos	116.8	117.0	106.7	102.0	112.6	111.6
	Sep	117.1	118.1	107.9	102.1	113.0	111.9
	Okt	117.3	120.6	109.0	102.1	113.8	112.0
	Nov	118.0	121.2	110.9	103.3	114.7	112.7
	Dis	119.0	121.7	112.2	106.2	115.5	113.4

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.) 5 Tingkat dan Lebih (Untuk Penginapan) 5 Storey and Above (R.C.) Building (For Accommodation)	2020 Dis	105.8	104.3	105.4	99.2	102.5	100.3
	2021 Jan	108.0	104.4	106.4	99.1	104.4	102.4
	Feb	109.0	104.1	106.5	99.4	105.8	105.1
	Mac	111.4	104.1	106.6	101.2	107.9	105.4
	Apr	113.6	107.6	106.7	102.3	110.0	106.2
	Mei	114.9	110.9	106.9	102.4	110.7	106.6
	Jun	115.2	114.3	107.4	102.6	110.9	109.3
	Jul	117.5	117.5	107.4	102.5	114.1	111.9
	Ogos	118.2	119.7	107.3	102.5	114.5	112.6
	Sep	118.5	120.6	108.6	102.6	114.9	112.9
	Okt	118.6	123.3	110.0	102.6	115.6	113.0
	Nov	119.3	123.8	111.9	103.9	116.4	113.6
	Dis	120.2	124.3	113.3	107.1	117.1	114.2
1.B.5 Bangunan (K.T.) 5 Tingkat dan Lebih (Untuk Pejabat) 5 Storey and Above (R.C.) Building (For Office)	2020 Dis	105.7	104.2	105.6	99.1	102.7	100.3
	2021 Jan	107.9	104.4	106.7	99.0	104.5	102.3
	Feb	108.9	104.0	106.9	99.4	105.7	104.9
	Mac	111.4	103.9	107.0	101.2	107.9	105.2
	Apr	113.7	107.5	107.2	102.3	110.0	106.3
	Mei	115.0	110.9	107.3	102.3	110.7	106.9
	Jun	115.4	114.4	107.8	102.5	110.9	109.7
	Jul	117.7	117.8	107.8	102.5	114.1	112.3
	Ogos	118.4	120.1	107.7	102.5	114.4	113.2
	Sep	118.8	121.1	109.0	102.6	114.9	113.5
	Okt	118.9	123.9	110.4	102.6	115.6	113.6
	Nov	119.5	124.4	112.3	103.9	116.5	114.2
	Dis	120.4	124.8	113.7	107.1	117.2	114.8
1.B.6 Bangunan Kayu Timber Building	2020 Dis	99.2	99.3	99.0	99.1	99.5	99.2
	2021 Jan	101.1	101.1	100.8	100.9	101.3	101.1
	Feb	102.8	102.8	102.5	102.5	102.9	102.8
	Mac	104.6	104.6	104.2	104.4	104.6	104.6
	Apr	104.8	104.7	104.3	104.4	104.8	104.6
	Mei	104.9	104.9	104.4	104.5	105.0	104.7
	Jun	105.5	105.5	104.9	105.0	105.5	105.3
	Jul	104.9	105.0	104.3	104.4	105.0	104.8
	Ogos	105.2	105.2	104.4	104.5	105.3	105.0
	Sep	105.2	105.3	104.5	104.6	105.4	105.1
	Okt	105.2	105.4	104.5	104.6	105.6	105.1
	Nov	105.4	105.6	104.6	104.6	105.8	105.1
	Dis	106.8	107.0	106.0	106.1	107.3	106.5

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 <i>Category of building</i>	Tempoh <i>Period</i>	Kawasan <i>Region</i>					
		A	B	C	D	E	F
1.B.7 Cerucuk Kayu <i>Timber Piling</i>	2020 Dis	99.1	99.1	99.1	99.1	99.1	99.1
	2021 Jan	101.1	101.1	101.1	101.1	101.1	101.1
	Feb	103.0	103.0	103.0	103.0	103.0	103.0
	Mac	105.0	105.0	105.0	105.0	105.0	105.0
	Apr	105.0	105.0	105.0	105.0	105.0	105.0
	Mei	105.1	105.1	105.1	105.1	105.1	105.1
	Jun	105.6	105.6	105.6	105.6	105.6	105.6
	Jul	104.9	104.9	104.9	104.9	104.9	104.9
	Ogos	105.1	105.1	105.1	105.1	105.1	105.1
	Sep	105.1	105.1	105.1	105.1	105.1	105.1
	Okt	105.1	105.1	105.1	105.1	105.1	105.1
	Nov	105.1	105.1	105.1	105.1	105.1	105.1
	Dis	106.6	106.6	106.6	106.6	106.6	106.6
1.B.8 Cerucuk K.T. <i>R.C. Piling</i>	2020 Dis	105.2	102.0	104.1	98.7	101.5	100.2
	2021 Jan	106.9	102.4	105.0	98.8	102.4	100.9
	Feb	107.7	102.0	105.3	99.3	102.4	102.7
	Mac	109.7	101.9	105.7	100.8	104.0	103.2
	Apr	111.4	104.1	105.7	101.6	105.1	103.7
	Mei	112.3	106.1	105.7	101.6	105.4	104.2
	Jun	112.8	108.1	105.9	101.8	105.6	105.7
	Jul	114.3	109.7	105.7	101.7	107.8	107.5
	Ogos	115.6	110.8	105.6	101.8	108.6	107.9
	Sep	116.1	112.0	106.6	101.8	108.7	108.0
	Okt	116.5	113.7	107.5	101.8	109.4	108.0
	Nov	117.5	114.0	109.2	102.9	110.0	108.9
	Dis	118.7	114.5	110.4	105.1	110.6	110.0

Jadual 2: Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis,engkapan 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	2020	Dis	109.8	99.1	106.2	99.1	104.5	103.7
			2021	Jan	110.3	99.1	106.2	98.8	101.5
		2021	Feb	109.8	96.7	106.2	99.1	96.1	99.9
			Mac	109.8	95.5	106.2	100.3	96.1	99.9
			Apr	110.0	96.7	106.3	100.6	96.1	100.9
			Mei	110.0	96.7	106.3	100.6	96.1	102.2
			Jun	109.7	96.7	105.9	100.6	96.1	101.6
			Jul	110.8	96.7	105.9	100.6	98.9	104.2
			Ogos	112.9	96.7	105.4	100.6	101.5	104.6
			Sep	113.8	100.3	106.5	100.6	101.5	104.6
			Okt	113.8	101.5	106.9	100.6	103.5	104.6
			Nov	115.3	102.3	109.7	102.4	105.4	107.3
			Dis	117.5	102.9	111.2	103.2	106.4	109.0
2.2	Besi Steel	2020	Dis	108.1	109.5	109.0	100.7	103.9	99.3
			2021	Jan	111.3	109.5	110.8	100.7	108.6
		2021	Feb	112.9	109.5	110.8	101.1	113.3	109.4
			Mac	116.9	109.5	110.8	104.3	117.6	110.0
			Apr	120.1	115.5	110.9	106.3	121.4	110.8
			Mei	121.9	121.6	110.9	106.3	122.3	110.8
			Jun	121.9	127.5	111.6	106.3	122.3	116.0
			Jul	125.4	133.6	111.6	106.3	127.5	119.9
			Ogos	125.5	137.2	111.6	106.3	127.5	120.8
			Sep	125.5	137.5	113.7	106.3	127.8	121.2
			Okt	125.5	142.2	116.2	106.3	127.8	121.2
			Nov	125.6	142.2	118.7	108.2	128.0	121.3
			Dis	125.9	142.2	120.2	113.5	128.0	121.3
2.3	Batu Bata & Dinding Bricks & Wall	2020	Dis	106.2	101.6	102.4	95.4	98.3	106.1
			2021	Jan	107.1	101.6	102.7	95.0	98.6
		2021	Feb	107.1	101.7	102.9	94.5	98.9	107.9
			Mac	107.2	101.7	102.9	94.4	98.9	107.9
			Apr	110.0	101.9	102.8	94.6	100.1	108.1
			Mei	111.4	101.9	102.8	94.6	100.1	108.3
			Jun	111.4	102.6	102.6	94.6	100.8	108.1
			Jul	114.6	102.6	102.6	94.6	102.7	108.5
			Ogos	115.4	103.4	102.7	94.6	104.1	109.0
			Sep	115.8	103.4	103.2	95.2	104.7	109.5
			Okt	115.9	103.6	103.4	95.3	105.3	109.9
			Nov	116.2	104.8	105.3	95.3	106.1	110.2
			Dis	116.4	108.7	106.6	97.8	107.3	111.2

Jadual 2: Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis,engkapan 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	2020	Dis	96.0	104.9	101.4	98.7	101.3	105.4
			2021	Jan	96.0	104.9	101.0	98.7	97.9
		2021	Feb	96.0	108.8	100.3	98.7	97.9	111.3
			Mac	96.0	109.3	104.9	98.7	97.9	111.3
			Apr	96.0	109.3	108.4	98.7	97.9	112.8
			Mei	96.0	109.3	111.6	98.7	101.9	112.8
			Jun	96.0	109.3	111.6	98.7	101.9	112.8
			Jul	96.0	109.3	111.6	98.7	101.9	112.8
			Ogos	96.0	109.3	111.6	98.7	101.9	115.1
			Sep	96.0	109.3	111.6	98.7	101.9	119.5
			Okt	96.0	109.3	111.6	98.7	101.9	121.0
			Nov	99.4	109.3	115.1	98.7	101.9	121.1
			Dis	103.2	110.1	118.6	100.1	101.9	121.4
2.5	Batu Baur Aggregates	2020	Dis	103.7	96.8	97.0	95.9	96.1	100.2
			2021	Jan	103.7	96.8	96.9	94.9	96.1
		2021	Feb	103.7	96.8	96.9	94.3	96.1	100.8
			Mac	104.4	96.8	96.9	93.7	96.1	100.8
			Apr	106.8	96.8	96.5	93.7	96.1	100.8
			Mei	108.8	96.8	96.5	93.7	96.1	100.8
			Jun	109.2	96.8	95.7	93.7	96.1	100.8
			Jul	109.2	96.8	95.0	93.7	96.1	100.8
			Ogos	115.2	96.8	95.3	93.7	96.1	100.8
			Sep	116.6	97.2	95.3	93.7	96.1	100.8
			Okt	119.8	97.2	95.9	93.7	96.1	100.8
			Nov	122.9	97.2	95.9	93.7	96.1	100.8
			Dis	124.47182	97.2	95.9	93.9	96.1	104.2
2.6	Bahan Siling Ceiling Materials	2020	Dis	101.1	102.8	97.9	103.2	105.7	100.0
			2021	Jan	101.6	102.8	98.2	103.2	105.7
		2021	Feb	101.8	102.8	98.2	103.2	105.7	102.0
			Mac	103.1	104.1	97.9	104.7	105.7	102.0
			Apr	105.8	104.1	98.3	104.7	105.7	102.0
			Mei	106.0	104.1	98.3	104.7	105.7	102.0
			Jun	106.0	104.5	98.3	104.7	105.7	102.0
			Jul	106.6	104.8	98.3	104.7	105.7	103.8
			Ogos	106.8	104.8	98.1	104.7	105.7	103.8
			Sep	107.6	104.8	100.3	105.9	105.7	103.8
			Okt	107.8	104.8	100.6	106.4	105.7	103.8
			Nov	107.9	104.8	100.9	106.4	109.8	103.8
			Dis	108.5	105.4	100.9	109.6	112.0	103.8

Jadual 2: Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis,engkapan 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	2020 2021	Dis	97.4	105.4	97.0	100.5	99.6	99.8
		Jan	98.0	105.4	95.7	100.5	99.6	99.8
		Feb	98.0	105.4	95.3	100.0	99.6	100.5
		Mac	98.0	105.4	95.0	102.5	99.6	100.5
		Apr	98.4	105.7	94.8	102.5	103.1	100.3
		Mei	98.4	105.7	94.5	102.5	104.5	100.3
		Jun	98.4	105.9	94.5	102.5	105.3	100.3
		Jul	98.4	105.9	94.5	102.5	106.8	100.4
		Ogos	98.8	105.9	94.3	102.5	106.8	100.4
		Sep	99.3	105.9	94.2	102.5	110.7	100.7
		Okt	99.3	108.8	94.2	102.5	113.9	100.7
		Nov	99.5	110.8	94.6	102.5	117.3	100.7
		Dis	100.0	112.2	94.8	104.2	117.3	100.7
2.8.a Kayu Timber	2020 2021	Dis	99.1	99.1	99.1	99.1	99.1	99.1
		Jan	101.1	101.1	101.1	101.1	101.1	101.1
		Feb	103.0	103.0	103.0	103.0	103.0	103.0
		Mac	105.0	105.0	105.0	105.0	105.0	105.0
		Apr	105.0	105.0	105.0	105.0	105.0	105.0
		Mei	105.1	105.1	105.1	105.1	105.1	105.1
		Jun	105.6	105.6	105.6	105.6	105.6	105.6
		Jul	104.9	104.9	104.9	104.9	104.9	104.9
		Ogos	105.1	105.1	105.1	105.1	105.1	105.1
		Sep	105.1	105.1	105.1	105.1	105.1	105.1
		Okt	105.1	105.1	105.1	105.1	105.1	105.1
		Nov	105.1	105.1	105.1	105.1	105.1	105.1
		Dis	106.6	106.6	106.6	106.6	106.6	106.6
2.8.b Papan Lapis Plywood	2020 2021	Dis	91.7	91.7	91.7	91.7	91.7	91.7
		Jan	92.1	92.1	92.1	92.1	92.1	92.1
		Feb	92.1	92.1	92.1	92.1	92.1	92.1
		Mac	92.1	92.1	92.1	92.1	92.1	92.1
		Apr	92.1	92.1	92.1	92.1	92.1	92.1
		Mei	92.1	92.1	92.1	92.1	92.1	92.1
		Jun	93.8	93.8	93.8	93.8	93.8	93.8
		Jul	93.8	93.8	93.8	93.8	93.8	93.8
		Ogos	93.8	93.8	93.8	93.8	93.8	93.8
		Sep	93.8	93.8	93.8	93.8	93.8	93.8
		Okt	93.8	93.8	93.8	93.8	93.8	93.8
		Nov	93.8	93.8	93.8	93.8	93.8	93.8
		Dis	94.5	94.5	94.5	94.5	94.5	94.5

Jadual 2: Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis,engkapan 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	2020 2021	Dis	100.7	100.1	96.0	100.0	123.5	101.6
		Jan	101.0	100.9	96.0	100.0	127.0	101.6
		Feb	101.0	101.6	96.0	100.0	127.0	101.6
		Mac	101.0	102.3	96.0	100.0	127.0	101.7
		Apr	100.8	105.4	96.0	100.0	127.0	102.0
		Mei	100.8	109.4	96.0	100.1	127.0	102.0
		Jun	100.8	113.0	96.0	100.1	127.0	102.0
		Jul	101.0	113.7	96.2	100.1	135.5	102.0
		Ogos	101.1	113.3	96.2	100.1	144.0	102.0
		Sep	101.2	113.3	96.2	100.1	142.9	102.0
		Okt	101.3	114.0	96.4	100.1	147.7	102.3
		Nov	101.4	117.9	96.6	100.1	152.4	102.3
		Dis	101.6	122.1	96.6	100.3	152.4	105.0
2.10 Jubin Lantai & Dinding Floor & Wall Tiles	2020 2021	Dis	100.8	108.3	99.8	100.0	106.5	106.2
		Jan	100.8	108.3	99.4	100.0	106.7	106.2
		Feb	100.8	108.3	98.6	100.0	106.8	106.2
		Mac	100.8	108.3	98.1	100.0	106.8	106.2
		Apr	100.8	108.3	98.2	100.0	106.9	112.7
		Mei	100.8	108.3	98.5	100.0	106.9	115.7
		Jun	100.8	108.3	98.5	100.0	106.9	118.5
		Jul	100.8	108.3	98.5	100.0	107.1	114.0
		Ogos	101.4	108.3	98.1	100.0	107.1	110.5
		Sep	101.6	109.7	98.1	100.0	107.1	114.6
		Okt	101.6	110.5	98.4	100.0	108.6	116.2
		Nov	102.1	112.4	98.5	100.0	109.3	117.0
		Dis	102.1	113.8	98.6	100.0	112.0	120.7
2.11 Bahan Kerja Paip Plumbing Materials	2020 2021	Dis	105.1	100.3	98.0	98.5	102.8	100.7
		Jan	109.3	100.3	97.9	98.5	103.7	103.7
		Feb	110.2	102.6	97.9	98.5	104.9	104.5
		Mac	111.8	104.8	97.8	98.5	105.5	104.6
		Apr	113.4	108.1	98.5	98.5	106.3	104.6
		Mei	113.6	109.6	99.9	98.5	106.3	104.6
		Jun	114.4	111.0	100.7	98.5	106.3	105.0
		Jul	115.3	113.2	101.0	98.5	109.1	105.7
		Ogos	115.1	113.8	101.1	98.5	108.7	105.9
		Sep	115.7	114.3	101.1	98.5	109.4	106.1
		Okt	115.7	115.2	101.8	98.5	110.7	106.1
		Nov	118.7	118.9	102.8	98.5	113.3	106.7
		Dis	119.7	118.9	103.6	99.2	117.5	108.9

Jadual 2: Indeks harga seunit bagi simen, besi, batu bata & dinding, kaca, batu baur, bahan siling, bahan bumbung, kayu, papan lapis,engkapan 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	2020	Dis	104.7	100.6	111.7	95.5	105.8	107.3	
			2021	Jan	109.4	101.9	114.0	95.9	105.8	110.0
				Feb	113.5	102.8	117.9	96.0	105.8	111.2
				Mac	118.6	102.9	118.3	96.4	106.6	111.2
				Apr	124.6	110.4	120.9	96.4	109.8	116.9
				Mei	131.8	116.4	123.4	96.4	114.3	122.3
				Jun	133.9	123.1	124.4	96.4	114.3	124.4
				Jul	137.2	131.5	124.4	96.4	114.3	131.2
				Ogos	140.0	141.4	124.2	96.3	108.5	137.7
				Sep	141.4	144.1	124.5	96.6	114.3	138.5
				Okt	142.9	148.0	124.5	96.8	117.0	138.5
				Nov	142.9	150.9	124.9	96.8	119.2	138.5
				Dis	145.7	151.4	127.3	100.4	123.0	138.5
2.13	Pasir Sand	2020	Dis	104.3	109.1	109.2	99.3	102.3	100.5	
			2021	Jan	107.4	109.1	109.7	97.4	102.3	100.4
				Feb	110.9	109.1	109.7	98.4	102.3	100.4
				Mac	115.9	109.1	109.7	97.8	102.3	100.4
				Apr	123.9	109.1	109.7	99.4	102.3	100.4
				Mei	126.0	112.3	109.7	99.4	102.3	100.4
				Jun	131.6	112.3	109.7	99.4	102.3	100.4
				Jul	134.8	112.3	110.0	99.4	102.3	100.4
				Ogos	136.1	112.3	109.6	99.4	102.3	100.4
				Sep	137.1	112.3	109.6	99.4	102.3	100.4
				Okt	138.7	112.3	109.6	99.4	102.3	100.4
				Nov	142.3	112.3	111.0	99.4	102.3	100.4
				Dis	142.3	112.3	111.5	101.3	102.3	100.4
2.14	Cat Paints	2020	Dis	104.1	103.8	101.8	108.4	102.6	103.3	
			2021	Jan	104.2	103.7	101.8	108.4	102.6	103.3
				Feb	104.3	103.4	101.8	108.4	102.6	103.3
				Mac	104.3	103.5	101.8	108.5	102.6	103.4
				Apr	105.1	103.7	101.7	109.1	105.0	103.5
				Mei	105.1	103.7	101.4	110.8	106.7	104.4
				Jun	105.1	104.1	101.4	110.8	106.7	105.4
				Jul	105.4	105.0	101.6	110.8	104.2	105.5
				Ogos	105.4	105.0	101.8	110.8	104.0	106.3
				Sep	105.4	105.8	102.3	110.8	104.0	107.0
				Okt	105.4	106.1	103.4	110.8	104.2	107.5
				Nov	109.0	108.1	105.2	110.8	104.2	107.6
				Dis	112.9	108.1	106.1	112.6	106.8	107.7

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			
<i>Structural Steel</i>			
3.1	Cerucuk Keping Jenis U	2020 Dis	113.8
		2021 Jan	116.2
		Feb	128.2
		Mac	128.2
		Apr	129.2
		Mei	129.7
		Jun	129.7
		Jul	129.7
		Ogos	129.7
		Sep	129.7
		Okt	129.7
		Nov	129.7
		Dis	131.0
3.2	Keratan Geronggang Segi Empat Sama	2020 Dis	112.1
		2021 Jan	113.4
		Feb	116.1
		Mac	117.7
		Apr	122.8
		Mei	129.7
		Jun	135.7
		Jul	135.7
		Ogos	135.7
		Sep	135.7
		Okt	135.7
		Nov	135.7
		Dis	139.8
3.3	Keratan Geronggang Segi Empat Tepat	2020 Dis	109.4
		2021 Jan	110.2
		Feb	112.2
		Mac	112.6
		Apr	118.2
		Mei	124.0
		Jun	129.0
		Jul	129.0
		Ogos	129.0
		Sep	129.0
		Okt	129.0
		Nov	129.0
		Dis	132.3

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 Universal Beams	2020 Dis		108.8
	2021 Jan		116.9
	Feb		116.9
	Mac		117.5
	Apr		117.8
	Mei		118.2
	Jun		118.2
	Jul		118.2
	Ogos		118.2
	Sep		118.2
	Okt		118.2
	Nov		118.2
	Dis		118.2
3.5 Gelegar Keluli Guling Rolled Steel Joists	2020 Dis		118.1
	2021 Jan		122.6
	Feb		136.3
	Mac		136.3
	Apr		136.3
	Mei		136.3
	Jun		136.3
	Jul		136.3
	Ogos		136.3
	Sep		136.3
	Okt		136.3
	Nov		136.3
	Dis		136.3
3.6 Sesiku Sama Equal Angles	2020 Dis		113.5
	2021 Jan		114.4
	Feb		116.8
	Mac		117.3
	Apr		123.6
	Mei		129.2
	Jun		129.2
	Jul		129.2
	Ogos		129.2
	Sep		129.2
	Okt		129.2
	Nov		129.2
	Dis		134.7

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			
<i>Structural Steel</i>			
3.7	Sesiku Tak Sama <i>Unequal Angles</i>	2020 Dis	118.0
		2021 Jan	119.9
		Feb	125.3
		Mac	126.4
		Apr	128.5
		Mei	131.8
		Jun	131.8
		Jul	131.8
		Ogos	131.8
		Sep	131.8
		Okt	131.8
		Nov	131.8
		Dis	135.1
3.8	Sesalur U <i>U Channels</i>	2020 Dis	114.2
		2021 Jan	115.6
		Feb	119.8
		Mac	120.3
		Apr	123.4
		Mei	124.3
		Jun	124.3
		Jul	124.3
		Ogos	124.3
		Sep	124.3
		Okt	124.3
		Nov	124.3
		Dis	128.1
3.9	Sesalur Bibir <i>Lipped Channels</i>	2020 Dis	110.7
		2021 Jan	113.1
		Feb	116.1
		Mac	116.3
		Apr	119.3
		Mei	124.5
		Jun	124.5
		Jul	124.5
		Ogos	124.5
		Sep	124.5
		Okt	124.5
		Nov	124.5
		Dis	128.3

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.)**TECHNICAL NOTES (cont'd)**

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	<u>129.3</u>
	<u>1.2</u>

8. Perubahan Peratus

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

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

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	<u>129.3</u>
	<u>1.2</u>

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

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

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

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

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

II lama Julai 2017 = FP (seperti di **Lampiran A**)
x II baru Julai 2017

iaitu, indeks lama Julai 2017:

$$\begin{aligned} &= 1.1339 \times 100.0 \\ &= 113.39 \\ &= 113.4 \end{aligned}$$

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 II for July 2017 = AF (as in **Appendix A**)
x new II for July 2017

i.e. old index for July 2017:

$$\begin{aligned} &= 1.1339 \times 100.0 \\ &= 113.39 \\ &= 113.4 \end{aligned}$$

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

II lama Julai 2017 = FP (seperti di **Lampiran B**)
x II baru Julai 2017

iaitu, indeks lama Julai 2017:

$$\begin{aligned} &= 1.1979 \times 100.0 \\ &= 119.79 \\ &= 119.8 \end{aligned}$$

di mana,

FP = Faktor Pelarasan

II = Indeks bagi kategori bangunan j

j = 1, 8

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 II for July 2017 = AF (as in **Appendix B**)
x new II for July 2017

i.e. old index for July 2017:

$$\begin{aligned} &= 1.1979 \times 100.0 \\ &= 119.79 \\ &= 119.8 \end{aligned}$$

where,

AF = Adjustment Factor

II = Index for building category j

j = 1, 8

Sasaran Tarikh Pengumuman Siaran Khas 2
(Untuk Kerja-Kerja Pembinaan Bangunan dan Struktur), Semenanjung Malaysia, 2021
Scheduled Release Dates for Special Release 2
(For Building and Structural Works), Peninsular Malaysia, 2021

Tahun <i>Year</i>	Bulan Rujukan <i>Reference Month</i>	Tahun <i>Year</i>	Tarikh Pengumuman <i>Release Date</i>
2021	Januari <i>January</i>	2021	10 Februari <i>10 February</i>
	Februari <i>February</i>		10 Mac <i>10 March</i>
	Mac <i>March</i>		09 April <i>09 April</i>
	April <i>April</i>		10 Mei <i>10 May</i>
	Mei <i>May</i>		10 Jun <i>10 June</i>
	Jun <i>June</i>		09 Julai <i>09 July</i>
	Julai <i>July</i>		12 Ogos <i>12 August</i>
	Ogos <i>August</i>		09 September <i>09 September</i>
	September <i>September</i>		11 Oktober <i>11 October</i>
	Oktober <i>October</i>		11 November <i>11 November</i>
	November <i>November</i>		09 Disember <i>09 December</i>
	Disember <i>December</i>	2022	10 Januari <i>10 January</i>