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JABATAN PERANGKAAN MALAYSIA

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Special Release **3**

(UNTUK KERJA-KERJA MEKANIKAL DAN ELEKTRIKAL)
(For Mechanical and Electrical Works)

APRIL
APRIL 2024

Pemakluman

Jabatan Perangkaan Malaysia (DOSM) telah melancarkan OpenDOSM NextGen sebagai medium yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai data dan boleh diakses melalui portal <https://open.dosm.gov.my>.

DOSM akan menjalankan Banci Pertanian pada tahun 2024. Mohon layari <https://www.myagricensus.gov.my/> untuk maklumat lanjut. Tema adalah "Banci Pertanian, Kunci Kemajuan Pertanian."

Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah "Statistik Nadi Kehidupan".

Announcement

The Department of Statistics Malaysia (DOSM) has launched OpenDOSM NextGen as a medium that provides a catalog of data and visualisations to facilitate users' analysis of various data and can be accessed through <https://open.dosm.gov.my>.

DOSM will conduct the Agricultural Census in 2024. Please visit <https://www.myagricensus.gov.my/> for more information. The theme is "Agriculture Census, Key to Agricultural Development."

The Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20th each year. MyStats Day theme is "Statistics is the Essence of Life".

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

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"Sumber: Jabatan Perangkaan Malaysia".

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JADUAL
TABLE

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Jadual 1: Indeks harga seunit bagi copper cables

Table 1: Unit price index for copper cables

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
1 Copper Cables					
1.1 Concealed/Surface wiring in conduit (per unit point)	2023	Apr	101.7	91.2	98.8
		Mei	102.6	91.0	98.8
		Jun	102.6	90.6	98.8
		Jul	101.7	91.9	101.3
		Ogos	102.0	93.1	101.3
		Sep	102.1	93.6	101.3
		Okt	102.1	94.5	101.3
		Nov	101.9	95.4	101.3
		Dis	102.9	95.9	101.5
	2024	Jan	103.3	95.9	101.6
		Feb	102.5	96.6	100.5
		Mac	103.4	96.3	101.4
		Apr	104.6	96.4	101.6
1.2 Cables in trunking (per meter run)	2023	Apr	101.7	91.2	98.8
		Mei	102.6	91.0	98.8
		Jun	102.6	90.6	98.8
		Jul	101.7	91.9	101.3
		Ogos	102.0	93.1	101.3
		Sep	102.1	93.6	101.3
		Okt	102.1	94.5	101.3
		Nov	101.9	95.4	101.3
		Dis	102.9	95.9	101.5
	2024	Jan	103.3	95.9	101.6
		Feb	102.5	96.6	100.5
		Mac	103.4	96.3	101.4
		Apr	104.6	96.4	101.6
1.3 Cables laid underground (per meter run) 1.3.i 120 sq. mm and above	2023	Apr	101.0	101.1	99.6
		Mei	101.0	101.1	99.6
		Jun	101.0	100.6	99.6
		Jul	100.5	100.6	100.9
		Ogos	100.5	100.6	100.9
		Sep	100.6	100.6	100.9
		Okt	100.6	100.7	100.9
		Nov	100.5	100.9	100.9
		Dis	100.7	101.1	99.7
	2024	Jan	100.8	101.1	99.7
		Feb	100.8	101.1	99.5
		Mac	102.0	101.5	100.3
		Apr	101.2	100.2	98.8

Nota: 1.1 Turut dikenali sebagai Concealed/Surface wiring using G.I conduit.

1.2 Turut dikenali sebagai Cables in galvanized trunking .

Note: 1.1 Also known as Concealed/Surface wiring using G.I conduit.

1.2 Also known as Cables in galvanized trunking.

Jadual 1: Indeks harga seunit bagi copper cables (samb.)

Table 1: Unit price index for copper cables (cont'd)

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
1 Copper Cables					
1.3 Cables laid underground (per meter run) 1.3.ii Below 120 sq. mm	2023	Apr	101.2	99.3	99.0
		Mei	101.4	98.7	99.0
		Jun	101.4	99.3	99.0
		Jul	100.9	99.3	101.2
		Ogos	100.9	100.8	101.1
		Sep	100.9	101.5	101.1
		Okt	100.9	102.6	101.1
		Nov	100.8	103.6	101.1
	2024	Dis	101.4	104.3	100.1
		Jan	101.7	104.3	100.0
		Feb	101.4	104.5	99.6
		Mac	102.3	104.5	100.4
		Apr	102.9	105.2	100.5
1.4 Cables on tray/ladder (per meter run) 1.4.i 120 sq. mm and above	2023	Apr	101.0	101.1	99.6
		Mei	101.0	101.1	99.6
		Jun	101.0	100.6	99.6
		Jul	100.5	100.6	100.9
		Ogos	100.5	100.6	100.9
		Sep	100.6	100.6	100.9
		Okt	100.6	100.7	100.9
		Nov	100.5	100.9	100.9
	2024	Dis	100.7	101.1	99.7
		Jan	100.8	101.1	99.7
		Feb	100.8	101.1	99.5
		Mac	102.0	101.5	100.3
		Apr	101.2	100.2	98.8
1.4.ii Below 120 sq. mm	2023	Apr	101.2	99.3	99.0
		Mei	101.4	98.7	99.0
		Jun	101.4	99.3	99.0
		Jul	100.9	99.3	101.2
		Ogos	100.9	100.8	101.1
		Sep	100.9	101.5	101.1
		Okt	100.9	102.6	101.1
		Nov	100.8	103.6	101.1
	2024	Dis	101.4	104.3	100.1
		Jan	101.7	104.3	100.0
		Feb	101.4	104.5	99.6
		Mac	102.3	104.5	100.4
		Apr	102.9	105.2	100.5

Jadual 1: Indeks harga seunit bagi copper cables (samb.)

Table 1: Unit price index for copper cables (cont'd)

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
1 Copper Cables					
1.5 Busduct	2023 Apr	100.0	100.0	100.0	
		Mei	100.0	100.0	100.0
	Jun	100.0	100.0	100.0	
	Jul	100.0	100.0	100.0	
	Ogos	100.0	100.0	100.0	
	Sep	100.0	100.0	100.0	
	Okt	100.0	100.0	100.0	
	Nov	100.0	100.0	100.0	
	Dis	100.0	100.0	100.0	
	2024 Jan	100.0	100.0	100.0	
		Feb	100.0	100.0	100.0
		Mac	100.0	100.0	100.0
		Apr	100.0	100.0	100.0

Jadual 2: Indeks harga seunit bagi switchgears

Table 2: Unit price index for switchgears

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
2 Switchgears					
2.1 Switchgears (above 1kV)	2023	Apr	100.0	100.0	100.0
		Mei	100.0	100.0	100.0
		Jun	100.0	100.0	100.0
		Jul	100.0	100.0	100.0
		Ogos	100.0	100.0	100.0
		Sep	100.0	100.0	100.0
		Okt	100.0	103.7	100.0
		Nov	100.0	105.0	100.0
		Dis	100.0	100.3	100.0
	2024	Jan	100.0	100.3	100.0
		Feb	100.0	98.6	100.0
		Mac	100.0	98.6	100.0
		Apr	100.0	98.6	100.0
2.2 LV Switchboards (Incomer breaker 600A and above)	2023	Apr	119.8	105.8	100.0
		Mei	119.7	105.8	100.0
		Jun	119.7	105.9	100.0
		Jul	119.7	105.9	100.0
		Ogos	121.2	106.6	100.0
		Sep	121.2	107.5	100.0
		Okt	121.4	107.0	100.0
		Nov	121.8	107.0	100.0
		Dis	121.7	107.0	100.0
	2024	Jan	121.7	107.0	100.0
		Feb	121.7	107.1	100.0
		Mac	121.7	107.1	100.0
		Apr	122.7	107.1	100.0
2.3 LV Switchboards and Sub Switchboards (Incomer breaker below 600A)	2023	Apr	119.8	105.8	100.0
		Mei	119.7	105.8	100.0
		Jun	119.7	105.9	100.0
		Jul	119.7	105.9	100.0
		Ogos	121.2	106.6	100.0
		Sep	121.2	107.5	100.0
		Okt	121.4	107.0	100.0
		Nov	121.8	107.0	100.0
		Dis	121.7	107.0	100.0
	2024	Jan	121.7	107.0	100.0
		Feb	121.7	107.1	100.0
		Mac	121.7	107.1	100.0
		Apr	122.7	107.1	100.0

Nota: 2.1 Turut dikenali sebagai MV dan HT Switchgear.

Note: 2.1 Also known as MV and HT Switchgear.

Jadual 2: Indeks harga seunit bagi switchgears (samb.)

Table 2: Unit price index for switchgears (cont'd)

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
2 Switchgears					
2.4 TPN & SPN Distribution Boards (Incomer breaker 100A and below and Feeder Pillars)	2023	Apr	105.3	114.1	112.8
		Mei	105.3	114.1	112.8
		Jun	105.3	114.1	112.8
		Jul	105.6	114.1	113.1
		Ogos	105.5	114.1	113.1
		Sep	105.5	114.1	113.1
		Okt	105.6	114.1	113.1
		Nov	105.6	114.1	113.1
	2024	Dis	105.6	114.1	113.1
		Jan	105.6	114.1	113.1
		Feb	105.6	114.1	113.1
		Mac	105.6	114.1	113.1
		Apr	105.6	114.1	113.1

**Nota: 2.4 Turut dikenali sebagai TPN & SPN Distribution Boards (Incomer breaker 100A and below)
(Triple Pole and Neutral & Single Pole and Neutral Distribution Boards)**

**Note: 2.4 Also known as TPN & SPN Distribution Boards (Incomer breaker 100A and below)
(Triple Pole and Neutral & Single Pole and Neutral Distribution Boards)**

Jadual 3: Indeks harga seunit bagi transformers

Table 3: Unit price index for transformers

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
3 Transformers					
3.1 Cast Resin Transformer	2023	Apr	93.7	100.0	93.7
		Mei	95.6	100.0	95.6
		Jun	96.7	100.0	96.7
		Jul	96.7	100.0	96.7
		Ogos	96.7	100.0	96.7
		Sep	97.2	100.0	97.2
		Okt	100.3	100.0	100.3
		Nov	100.9	100.0	100.9
		Dis	100.9	100.0	100.9
		2024	Jan	100.9	100.0
	Feb		100.9	100.0	100.9
		Mac	101.1	100.0	101.1
		Apr	101.1	100.0	101.1
3.2 Hermetically Sealed (oil filled) Transformer	2023	Apr	100.0	100.0	100.0
		Mei	100.0	100.0	100.0
		Jun	100.0	100.0	100.0
		Jul	100.0	100.0	100.0
		Ogos	100.0	100.0	100.0
		Sep	100.0	100.0	100.0
		Okt	100.0	100.0	100.0
		Nov	100.0	100.0	100.0
		Dis	100.0	100.0	100.0
		2024	Jan	100.0	100.0
	Feb		100.0	100.0	100.0
		Mac	100.0	100.0	100.0
		Apr	100.0	100.0	100.0

Nota: 3.1 Turut dikenali sebagai Low Loss Cast Resin Transformer.

3.2 Turut dikenali sebagai Low Loss Hermetically Sealed (oil filled) Transformer.

Note: 3.1 Also known as Low Loss Cast Resin Transformer.

3.2 Also known as Low Loss Hermetically Sealed (oil filled) Transformer.

Jadual 4: Indeks harga seunit bagi generators

Table 4: Unit price index for generators

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
4 Generators					
4.1 Generator Sets Ratings Above 500kVA	2023	Apr	100.0	100.0	100.0
		Mei	115.4	100.0	100.0
		Jun	118.4	100.0	100.0
		Jul	119.6	100.0	100.0
		Ogos	119.6	100.0	100.0
		Sep	119.6	100.0	100.0
		Okt	119.6	100.0	100.0
		Nov	119.6	100.0	100.0
		Dis	119.6	100.0	100.0
	2024	Jan	119.6	100.0	100.0
		Feb	119.6	100.0	100.0
		Mac	119.6	100.0	100.0
		Apr	119.6	100.0	100.0
4.2 Generator Sets Ratings 500kVA and below	2023	Apr	100.0	100.0	100.0
		Mei	100.0	100.0	100.0
		Jun	100.0	100.0	100.0
		Jul	100.0	100.0	100.0
		Ogos	100.0	100.0	100.0
		Sep	100.0	100.0	100.0
		Okt	100.0	100.0	100.0
		Nov	100.0	100.0	100.0
		Dis	100.0	100.0	100.0
	2024	Jan	100.0	100.0	100.0
		Feb	100.0	100.0	100.0
		Mac	100.0	100.0	100.0
		Apr	100.0	100.0	100.0

Nota: 4.1 Turut dikenali sebagai Generator Ratings Above 500kVA.

4.2 Turut dikenali sebagai Generator Ratings 500kVA and below

Nota: 4.1 Also known as Generator Ratings Above 500kVA.

4.2 Also known as Generator Ratings 500kVA and below.

Jadual 5: Indeks harga seunit bagi lightning protection system and earthing system

Table 5: Unit price index for lightning protection system and earthing system

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
5 Lightning Protection System & Earthing System					
5.1 Lightning Protection System	2023	Apr	100.3	101.3	161.6
		Mei	100.3	101.3	161.6
		Jun	99.4	100.1	161.6
		Jul	97.9	100.1	161.6
		Ogos	97.0	100.1	161.6
		Sep	96.0	100.1	161.6
		Okt	96.0	100.6	161.6
		Nov	96.0	101.1	161.6
		Dis	96.0	101.8	161.6
	2024	Jan	96.0	101.8	161.6
		Feb	96.0	101.8	161.6
		Mac	96.0	101.5	161.6
		Apr	96.0	102.7	161.6
5.2 Earthing System 5.2.i Earthing System for Switchgears (above 1kV), Transformers, LV Switchboards and Sub Switchboards, Generator Sets, Feeder Pillars and Traffic Lights Controllers	2023	Apr	100.3	101.3	161.6
		Mei	100.3	101.3	161.6
		Jun	99.4	100.1	161.6
		Jul	97.9	100.1	161.6
		Ogos	97.0	100.1	161.6
		Sep	96.0	100.1	161.6
		Okt	96.0	100.6	161.6
		Nov	96.0	101.1	161.6
		Dis	96.0	101.8	161.6
	2024	Jan	96.0	101.8	161.6
		Feb	96.0	101.8	161.6
		Mac	96.0	101.5	161.6
		Apr	96.0	102.7	161.6
5.2.ii Earthing System for Distribution Boards and others	2023	Apr	100.3	101.3	161.6
		Mei	100.3	101.3	161.6
		Jun	99.4	100.1	161.6
		Jul	97.9	100.1	161.6
		Ogos	97.0	100.1	161.6
		Sep	96.0	100.1	161.6
		Okt	96.0	100.6	161.6
		Nov	96.0	101.1	161.6
		Dis	96.0	101.8	161.6
	2024	Jan	96.0	101.8	161.6
		Feb	96.0	101.8	161.6
		Mac	96.0	101.5	161.6
		Apr	96.0	102.7	161.6

Nota: 5.2.i Turut dikenali sebagai Earthing System for Main Switchboards and Sub Switchboards & Earthing System for Earthing system for MV Switchgears, Transformers, LV Switchboards and Sub Switchboards, Generator Sets, Feeder Pillars and Traffic lights controllers.

Note: 5.2.i Also known as Earthing System for Main Switchboards and Sub Switchboards & Earthing System for Earthing system for MV Switchgears, Transformers, LV Switchboards and Sub Switchboards, Generator Sets, Feeder Pillars and Traffic lights controllers. 8

Jadual 6: Indeks harga seunit bagi air conditioning system

Table 6: Unit price index for air conditioning system

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak	
6 Air Conditioning System				
6.1 Water Cooled Chiller	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
		Dis	100.0	100.0
		2024	Jan	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0
6.2 Air Cooled Chiller	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
		Dis	100.0	100.0
		2024	Jan	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0
6.3 Water Cooled Package	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
		Dis	100.0	100.0
		2024	Jan	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0

Jadual 6: Indeks harga seunit bagi air conditioning system (samb.)

Table 6: Unit price index for air conditioning system (cont'd)

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak	
6 Air Conditioning System				
6.4 Air Cooled Package	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
		Dis	100.0	100.0
		2024	Jan	100.0
	Feb		100.0	100.0
	Mac		100.0	100.0
	Apr		100.0	100.0
6.5 Split Unit System 6.5.i Wall Mounted	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
		Dis	100.0	100.0
		2024	Jan	100.0
	Feb		100.0	100.0
	Mac		100.0	100.0
	Apr		100.0	100.0
6.5.ii Ceiling Cassette / Mounted	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
		Dis	100.0	100.0
		2024	Jan	100.0
	Feb		100.0	100.0
	Mac		100.0	100.0
	Apr		100.0	100.0

Jadual 6: Indeks harga seunit bagi air conditioning system (samb.)

Table 6: Unit price index for air conditioning system (cont'd)

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region	
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak
6 Air Conditioning System			
6.6 VRV System	2023 Apr	100.0	100.0
6.6.i Indoor	Mei	100.0	100.0
	Jun	100.0	100.0
	Jul	100.0	100.0
	Ogos	100.0	100.0
	Sep	100.0	100.0
	Okt	100.0	100.0
	Nov	100.0	100.0
	Dis	100.0	100.0
	2024 Jan	100.0	100.0
	Feb	100.0	100.0
	Mac	100.0	100.0
	Apr	100.0	100.0
	6.6.ii Outdoor	2023 Apr	100.0
Mei		100.0	100.0
Jun		100.0	100.0
Jul		100.0	100.0
Ogos		100.0	100.0
Sep		100.0	100.0
Okt		100.0	100.0
Nov		100.0	100.0
Dis		100.0	100.0
2024 Jan		100.0	100.0
Feb		100.0	100.0
Mac		100.0	100.0
Apr		100.0	100.0

Jadual 7: Indeks harga seunit bagi motor (pumpset)

Table 7: Unit price index for motor (pumpset)

(Januari 2023=100)

(January 2023=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak	
7 Motor (Pumpset)				
7.1 Condenser Water Pump	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
	2024	Dis	100.0	100.0
		Jan	100.0	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0
7.2 Chilled Water Pump	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
	2024	Dis	100.0	100.0
		Jan	100.0	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0
7.3 Hose Reel Pump	2023	Apr	100.0	100.0
		Mei	100.0	100.0
		Jun	100.0	100.0
		Jul	100.0	100.0
		Ogos	100.0	100.0
		Sep	100.0	100.0
		Okt	100.0	100.0
		Nov	100.0	100.0
	2024	Dis	100.0	100.0
		Jan	100.0	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0

NOTA TEKNIKAL
TECHNICAL NOTES

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**Nota teknikal Indeks Kos Komponen
Kerja-kerja Mekanikal dan Elektrikal (M&E)
(Januari 2023=100)**

1. Indeks Kos Komponen Kerja-kerja Mekanikal dan Elektrikal (M&E) digunakan dalam Pelaksanaan Syarat Perubahan Harga dalam kontrak-kontrak bangunan kerajaan sahaja. Indeks harga seunit diterbitkan mengikut tiga (3) kawasan iaitu Semenanjung Malaysia, Sabah dan Sarawak.
2. Spesifikasi untuk komponen mekanikal dan elektrik terpilih ditentukan oleh Jabatan Kerja Raya (JKR) dan Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB). Harga bagi komponen elektrik diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia. Bagi komponen mekanikal, harga diperoleh dari pembekal.
3. Mulai Januari 2024, Indeks Kos Komponen Kerja-kerja Mekanikal dan Elektrikal adalah berasaskan kepada tahun asas yang telah disemak semula, Januari 2023=100 (Tahun asas sebelumnya: Julai 2017=100).
4. Bagi kontrak-kontrak yang telah ditandatangani sebelum Januari 2024, sila lihat 'Jadual faktor pelarasan' (**Lampiran A**) dan 'Contoh mengira Indeks Lama Kos Bahan Binaan Bangunan' (**Lampiran B**) untuk panduan dalam Pelaksanaan Syarat Perubahan Harga. Bagi kontrak-kontrak mulai Januari 2024 dan seterusnya, indeks baru hendaklah digunakan terus tanpa sebarang pelarasan.

**Technical notes on Component Cost
Index of the Mechanical and Electrical
Works (M&E) (January 2023=100)**

1. The Component Cost Index of the Mechanical and Electrical Works (M&E) is used in Special Provisions to the Conditions of Contract (Variation of Price) in government building contracts only. The unit price indices are reported according to three (3) regions, that is Peninsular Malaysia, Sabah and Sarawak.
2. The specification of the selected mechanical and electrical components are determined by Public Works Department (JKR) and Construction Industry Development Board Malaysia (CIDB). The prices for electrical components are obtained from the price collection conducted by Department of Statistics, Malaysia. For components, the prices are obtained from the suppliers.
3. Starting from January 2024, the Index of Mechanical and Electrical Works Component Cost is based on the revised base year, January 2023=100 (Previous base: July 2017=100).
4. For contracts signed before January 2024, please refer to the 'Adjustment factor table' (**Appendix A**) and the 'Example for calculating the Old Building Materials Cost Index' (**Appendix B**) for the implementation of the Variation of Price. For contracts commencing January 2024 and thereafter, the new index is to be used without any further adjustment.

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LAMPIRAN

APPENDIX

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Jadual faktor pelarasan
Adjustment factor table

Komponen <i>Component</i>	Faktor pelarasan mengikut kawasan <i>Adjustment factor by region</i>		
	Semenanjung Malaysia	Sabah	Sarawak
(1) Copper Cables			
1.1) Concealed/Surface wiring in conduit (per unit point)	1.2002	1.0000	1.3596
1.2) Cables in trunking (per meter run)	1.2002	1.0000	1.3596
1.3) Cables laid underground (per meter run)			
i) 120 sq. mm and above	1.1847	1.1153	1.2758
ii) Below 120 sq. mm	1.1755	1.0374	1.3836
1.4) Cables on tray/ladder (per meter run)			
i) 120 sq. mm and above	1.1847	1.1153	1.2758
ii) Below 120 sq. mm	1.1755	1.0374	1.3836
1.5) Busduct	0.9770	1.0000	0.9770
(2) Switchgears			
2.1) Switchgears (above 1kV)	1.0000	1.5334	1.0000
2.2) LV Switchboards (Incomer breaker 600A and above)	1.2843	1.2598	1.0020
2.3) LV Switchboards and Sub Switchboards (Incomer breaker below 600A)	1.2843	1.2598	1.0020
2.4) TPN & SPN Distribution Boards (Incomer breaker 100A and below and Feeder Pillars)	1.1146	1.0000	1.1123
(3) Transformers			
3.1) Cast Resin Transformer	1.0000	1.0000	1.0000
3.2) Hermetically Sealed (Oil filled) Transformer	1.0129	1.0210	1.0220
(4) Generators			
4.1) Generator Sets Ratings Above 500kVA	0.7124	1.0000	1.0000
4.2) Generator Sets Ratings 500kVA and below	1.0000	1.0000	1.0000
(5) Lightning Protection System & Earthing System			
5.1) Lightning Protection System	1.1073	1.2849	1.0000
5.2) Earthing System			
i) Earthing System for Switchgears (above 1kV), Transformer, LV Switchboards and Sub Switchboards, Generator Sets, Feeder Pillars	1.1073	1.2849	1.0000
ii) Earthing System for Distribution Boards and others	1.1073	1.2849	1.0000

Jadual faktor pelarasan (samb.)
Adjustment factor table (cont'd)

Komponen <i>Component</i>	Faktor pelarasan mengikut kawasan <i>Adjustment factor by region</i>	
	Semenanjung Malaysia	Sabah & Sarawak
(6) Air Conditioning System		
6.1) Water Cooled Chiller	1.0000	1.0000
6.2) Air Cooled Chiller	1.0000	1.0000
6.3) Water Cooled Package	1.0000	1.0000
6.4) Air Cooled Package	1.0000	1.0000
6.5) Split Unit System		
i) Wall Mounted	1.0000	1.0000
ii) Ceiling Cassette / Mounted	1.0000	1.0000
6.6) VRV System		
i) Indoor	1.0000	1.0000
ii) Outdoor	1.0000	1.0000
(7) Motor (Pumpset)		
7.1) Condenser Water Pump	1.0080	1.0080
7.2) Chilled Water Pump	1.0080	1.0080
7.3) Hose Reel Pump	1.0060	1.0060

**Contoh pengiraan indeks lama M&E
(Julai 2017=100) dengan menggunakan
indeks baru M&E
(Januari 2023=100)**

Contoh mengira indeks lama *Busducts* bagi bulan Januari 2023 untuk kawasan Semenanjung Malaysia adalah seperti berikut:

$j I$ lama Januari 2023 = FP (seperti di **Lampiran A**) x $j I$ baru Januari 2023

iaitu, indeks lama Januari 2023:
= 0.9770×100.0
= 97.7

di mana,

FP = Faktor Pelarasan

$j I$ = Indeks bagi kategori bangunan j

$j = 1, \dots, 8$

**Example for calculating the old M&E index
(July 2017=100) using the new M&E index
(January 2023=100)**

Example for calculating the old index of *Busduct* for the month of January 2023 for Peninsular Malaysia is as follows:

Old $j I$ for January 2023 = AF (as in **Appendix A**) x new $j I$ for January 2023

i.e. old index for January 2023:
= 0.9770×100.0
= 97.7

where,

AF = Adjustment Factor

$j I$ = Index for building category j

$j = 1, \dots, 8$

Sasaran Tarikh Pengumuman Siaran Khas 3
(Untuk Kerja-Kerja Mekanikal dan Elektrikal), Malaysia, 2024
Scheduled Release Dates for Special Release 3
(For Mechanical and Electrical Works), Malaysia, 2024

Tahun Year	Bulan Rujukan Reference Month	Tahun Year	Tarikh Pengumuman Release Date
2024	Januari January	2024	13 Februari 13 February
	Februari February		08 Mac 08 March
	Mac March		04 April 04 April
	April April		08 Mei 08 May
	Mei May		11 Jun 11 June
	Jun June		11 Julai 11 July
	Julai July		12 Ogos 12 August
	Ogos August		11 September 11 September
	September September		10 Oktober 10 October
	Oktober October		12 November 12 November
	November November		10 Disember 10 December
	Disember December	2025	10 Januari 10 January