



**KEMENTERIAN EKONOMI
JABATAN PERANGKAAN MALAYSIA**

MALAYSIA

SIARAN KHAS
Special Release **3**

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

DISEMBER
DISEMBER **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>.

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

Announcement

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

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

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

Tarikh: **9** **Januari** **2025**
Date: *January*

Diterbitkan dan dicetak oleh / Published and printed by:

Jabatan Perangkaan Malaysia

Department of Statistics, Malaysia

Blok C6, Kompleks C,

Pusat Pentadbiran Kerajaan Persekutuan,

62514 Putrajaya,

MALAYSIA

Tel. : 03-8885 7000

Faks : 03-8888 9248

Portal : <https://www.dosm.gov.my>

Facebook / X / Instagram : StatsMalaysia

E-mel / E-mail : info@dosm.gov.my (pertanyaan umum / general enquiries)
data@dosm.gov.my (pertanyaan & permintaan data / data request & enquiries)

Harga / Price : RM5.00

Diterbitkan pada Januari 2025 / Published on January 2025

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"Sumber: Jabatan Perangkaan Malaysia".

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ISSN 1985 - 739X

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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 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
	Mei	105.9	98.0	105.1
	Jun	107.9	97.5	107.7
	Jul	108.3	97.5	107.8
	Ogos	109.0	93.4	104.5
	Sep	108.9	93.4	104.5
	Okt	107.7	94.2	105.6
	Nov	107.8	92.0	105.6
	Dis	107.8	92.0	105.6
1.2 Cables in trunking (per meter run)	2023 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
	Mei	105.9	98.0	105.1
	Jun	107.9	97.5	107.7
	Jul	108.3	97.5	107.8
	Ogos	109.0	93.4	104.5
	Sep	108.9	93.4	104.5
	Okt	107.7	94.2	105.6
	Nov	107.8	92.0	105.6
	Dis	107.8	92.0	105.6
1.3 Cables laid underground (per meter run) 1.3.i 120 sq. mm and above	2023 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
	Mei	100.7	99.4	99.4
	Jun	100.5	97.6	98.9
	Jul	100.8	97.6	98.9
	Ogos	101.0	97.8	97.3
	Sep	99.0	95.9	95.4
	Okt	97.5	95.4	94.9
	Nov	96.7	94.8	94.1
	Dis	96.7	94.8	94.1

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 Dis	101.4	104.3	100.1
	2024 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
	Mei	104.1	105.9	103.3
	Jun	105.6	102.8	105.8
	Jul	105.8	102.8	105.8
	Ogos	105.9	101.3	103.2
	Sep	105.5	101.0	103.1
	Okt	104.8	101.9	103.8
	Nov	104.9	101.0	103.8
	Dis	104.9	101.0	103.8
1.4 Cables on tray/ladder (per meter run) 1.4.i 120 sq. mm and above	2023 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
	Mei	100.7	99.4	99.4
	Jun	100.5	97.6	98.9
	Jul	100.8	97.6	98.9
	Ogos	101.0	97.8	97.3
	Sep	99.0	95.9	95.4
	Okt	97.5	95.4	94.9
	Nov	96.7	94.8	94.1
	Dis	96.7	94.8	94.1
1.4.ii Below 120 sq. mm	2023 Dis	101.4	104.3	100.1
	2024 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
	Mei	104.1	105.9	103.3
	Jun	105.6	102.8	105.8
	Jul	105.8	102.8	105.8
	Ogos	105.9	101.3	103.2
	Sep	105.5	101.0	103.1
	Okt	104.8	101.9	103.8
	Nov	104.9	101.0	103.8
	Dis	104.9	101.0	103.8

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 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
	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

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 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
	Mei	100.0	98.6	100.0
	Jun	100.0	98.6	100.0
	Jul	100.0	98.6	100.0
	Ogos	100.0	94.5	100.0
	Sep	100.0	94.5	100.0
	Okt	100.0	86.6	100.0
	Nov	100.0	86.6	100.0
	Dis	100.0	90.2	100.0
2.2 LV Switchboards (Incomer breaker 600A and above)	2023 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
	Mei	122.8	107.4	100.0
	Jun	122.8	109.6	100.0
	Jul	122.8	109.6	100.0
	Ogos	123.8	106.1	100.0
	Sep	123.9	104.6	100.0
	Okt	123.9	103.2	100.0
	Nov	123.8	103.0	100.0
	Dis	123.8	102.7	100.0
2.3 LV Switchboards and Sub Switchboards (Incomer breaker below 600A)	2023 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
	Mei	122.8	107.4	100.0
	Jun	122.8	109.6	100.0
	Jul	122.8	109.6	100.0
	Ogos	123.8	106.1	100.0
	Sep	123.9	104.6	100.0
	Okt	123.9	103.2	100.0
	Nov	123.8	103.0	100.0
	Dis	123.8	102.7	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	Sabah	Sarawak
		Peninsular Malaysia		
2 Switchgears				
2.4 TPN & SPN Distribution Boards (Incomer breaker 100A and below and Feeder Pillars)	2023 Dis	105.6	114.1	113.1
	2024 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
	Mei	106.0	114.1	115.0
	Jun	106.0	114.1	115.0
	Jul	106.0	114.1	115.0
	Ogos	106.0	114.1	115.0
	Sep	106.0	114.1	115.0
	Okt	106.0	114.1	115.0
	Nov	106.0	114.1	115.0
	Dis	106.0	114.1	115.0

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 Dis	100.9	100.0	100.9
	2024 Jan	100.9	100.0	100.9
	Feb	100.9	100.0	100.9
	Mac	101.1	100.0	101.1
	Apr	101.1	100.0	101.1
	Mei	102.4	100.0	102.4
	Jun	102.4	100.0	102.4
	Jul	102.4	100.0	102.4
	Ogos	102.2	100.0	102.2
	Sep	102.1	100.0	102.1
	Okt	102.1	100.0	102.1
	Nov	104.2	100.0	104.2
	Dis	104.2	100.0	104.2
3.2 Hermetically Sealed (oil filled) Transformer	2023 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
	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

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 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
	Mei	119.6	100.0	100.0
	Jun	119.6	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
4.2 Generator Sets Ratings 500kVA and below	2023 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
	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

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 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
	Mei	96.0	104.6	165.1
	Jun	96.0	103.9	165.1
	Jul	96.0	103.9	165.1
	Ogos	95.7	103.9	165.1
	Sep	95.7	103.9	165.1
	Okt	95.7	105.1	165.1
	Nov	96.0	105.6	165.1
	Dis	96.0	105.6	165.1
5.2 Earthing System	2023 Dis	96.0	101.8	161.6
5.2.i Earthing System for Switchgears (above 1kV), Transformers, LV Switchboards and Sub Switchboards, Generator Sets, Feeder Pillars and Traffic Lights Controllers	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
	Mei	96.0	104.6	165.1
	Jun	96.0	103.9	165.1
	Jul	96.0	103.9	165.1
	Ogos	95.7	103.9	165.1
	Sep	95.7	103.9	165.1
	Okt	95.7	105.1	165.1
	Nov	96.0	105.6	165.1
	Dis	96.0	105.6	165.1
5.2.ii Earthing System for Distribution Boards and others	2023 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
	Mei	96.0	104.6	165.1
	Jun	96.0	103.9	165.1
	Jul	96.0	103.9	165.1
	Ogos	95.7	103.9	165.1
	Sep	95.7	103.9	165.1
	Okt	95.7	105.1	165.1
	Nov	96.0	105.6	165.1
	Dis	96.0	105.6	165.1

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.

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 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
	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
6.2 Air Cooled Chiller	2023 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
	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
6.3 Water Cooled Package	2023 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
	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

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 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
	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
6.5 Split Unit System 6.5.i Wall Mounted	2023 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
	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
6.5.ii Ceiling Cassette / Mounted	2023 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
	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

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 6.6.i Indoor	2023 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
	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
	6.6.ii Outdoor	2023 Dis	100.0
2024 Jan		100.0	100.0
Feb		100.0	100.0
Mac		100.0	100.0
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

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 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
	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
7.2 Chilled Water Pump	2023 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
	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
7.3 Hose Reel Pump	2023 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
	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

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 and Traffic Lights Controllers.	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	9 Januari 9 January