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Special Release

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

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Pemakluman

Jabatan Perangkaan Malaysia (DOSM) sedang menjalankan Banci Ekonomi pada tahun 2023. DOSM amat menghargai kerjasama daripada responden dalam memberikan maklumat kepada DOSM serta menjayakan banci ini. Sila layari www.dosm.gov.my untuk maklumat lanjut.

DOSM telah melancarkan OpenDOSM NextGen sebagai medium yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai data. OpenDOSM NextGen ialah platform perkongsian data sumber terbuka dan boleh diakses melalui portal <https://open.dosm.gov.my>.

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".

Announcement

The Department of Statistics Malaysia (DOSM) is conducting the Economic Census in 2023. DOSM greatly appreciates the cooperation of respondents in providing information and ensuring the success of this census. Please visit www.dosm.gov.my for more information.

DOSM has launched OpenDOSM NextGen as a medium that provides a catalogue of data and visualisation to facilitate users in analysing various data. OpenDOSM NextGen is an open source data sharing platform and accessible through <https://open.dosm.gov.my> portal.

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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“Sumber: Jabatan Perangkaan Malaysia”.

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KANDUNGAN

CONTENTS

	Muka Surat <i>Page</i>
Jadual 1 <i>Table 1</i>	: Indeks harga seunit bagi <i>copper cables</i> <i>: Unit price index for copper cables</i>
	1
Jadual 2 <i>Table 2</i>	: Indeks harga seunit bagi <i>switchgears</i> <i>: Unit price index for switchgears</i>
	4
Jadual 3 <i>Table 3</i>	: Indeks harga seunit bagi <i>transformers</i> <i>: Unit price index for transformers</i>
	6
Jadual 4 <i>Table 4</i>	: Indeks harga seunit bagi <i>generators</i> <i>: Unit price index for generators</i>
	7
Jadual 5 <i>Table 5</i>	: Indeks harga seunit bagi <i>lightning protection system and earthing system</i> <i>: Unit price index for lightning protection system & earthing system</i>
	8
Jadual 6 <i>Table 6</i>	: Indeks harga seunit bagi <i>air conditioning system</i> <i>: Unit price index for air conditioning system</i>
	9
Jadual 7 <i>Table 7</i>	: Indeks harga seunit bagi <i>motor (pumpset)</i> <i>: Unit price index for motor (pumpset)</i>
	10
Nota teknikal <i>Technical notes</i>	15
Lampiran A <i>Appendix A</i>	: Jadual faktor pelarasan <i>: Adjustment factor table</i>
	19
Lampiran B <i>Appendix B</i>	: Contoh mengira indeks lama (Disember 2012=100) dengan menggunakan indeks baru (Julai 2017=100) <i>: Example for calculating the old index (December 2012=100) using the new index (July 2017=100)</i>
	21
Lampiran C <i>Appendix C</i>	: Sasaran Tarikh Pengumuman Siaran Khas 3 (Untuk Kerja-kerja Mekanikal dan Elektrikal), Malaysia, 2023 <i>Scheduled of Release Dates for Special Release 3 (For Mechanical and Electrical Works), Malaysia, 2023</i>
	22

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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

(Julai 2017=100)

(July 2017=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)	2022	Apr	114.3	108.2	135.4
		Mei	115.2	112.4	137.2
		Jun	115.3	118.0	137.2
		Jul	115.7	123.6	137.5
		Ogos	115.2	128.0	135.3
		Sep	116.1	131.9	135.2
		Okt	116.2	136.7	135.3
		Nov	116.2	141.0	135.3
	2023	Dis	116.9	144.5	135.3 ^r
		Jan	117.2	148.9	135.4
		Feb	121.3	155.0	134.2
		Mac	119.9	146.7	134.3
		Apr	122.1	136.3	134.3
1.2 Cables in trunking (per meter run)	2022	Apr	114.3	108.2	135.4
		Mei	115.2	112.4	137.2
		Jun	115.3	118.0	137.2
		Jul	115.7	123.6	137.5
		Ogos	115.2	128.0	135.3
		Sep	116.1	131.9	135.2
		Okt	116.2	136.7	135.3
		Nov	116.2	141.0	135.3
	2023	Dis	116.9	144.5	135.3 ^r
		Jan	117.2	148.9	135.4
		Feb	121.3	155.0	134.2
		Mac	119.9	146.7	134.3
		Apr	122.1	136.3	134.3
1.3 Cables laid underground (per meter run) 1.3.i 120 sq. mm and above	2022	Apr	114.7	108.9	127.4
		Mei	115.7	108.9	129.1
		Jun	116.0	109.0	129.1
		Jul	115.5	109.0	126.7
		Ogos	112.8	109.0	122.6
		Sep	113.7	109.0	123.6
		Okt	114.3	109.0	124.1
		Nov	114.5	109.0	124.1
	2023	Dis	117.6	109.0	127.3
		Jan	117.8	113.4 ^r	127.3
		Feb	119.3	118.6	126.2
		Mac	118.4	118.6	126.2
		Apr	120.2	119.4	127.1

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)

(Julai 2017=100)

(July 2017=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak
1 Copper Cables				
1.3 Cables laid underground (per meter run)	2022 Apr	112.2	113.5	137.4
1.3.ii Below 120 sq. mm	Mei	112.9	115.9	140.2
	Jun	113.0	119.3	140.2
	Jul	113.0	123.6	139.4
	Ogos	111.8	127.2	136.3
	Sep	112.6	129.7 ^r	136.6
	Okt	112.9	132.3	136.9
	Nov	113.0	135.0	136.9
	Dis	114.5	137.0	138.2
	2023 Jan	114.8	142.9 ^r	138.2
	Feb	118.6	146.9	137.1
	Mac	117.7	144.9	137.1
	Apr	118.9	141.0	137.1
1.4 Cables on tray/ladder (per meter run)	2022 Apr	114.7	108.9	127.4
1.4.i 120 sq. mm and above	Mei	115.7	108.9	129.1
	Jun	116.0	109.0	129.1
	Jul	115.5	109.0	126.7
	Ogos	112.8	109.0	122.6
	Sep	113.7	109.0	123.6
	Okt	114.3	109.0	124.1
	Nov	114.5	109.0	124.1
	Dis	117.6	109.0	127.3
	2023 Jan	117.8	113.4 ^r	127.3
	Feb	119.3	118.6	126.2
	Mac	118.4	118.6	126.2
	Apr	120.2	119.4	127.1
1.4.ii Below 120 sq. mm	2022 Apr	112.2	113.5	137.4
	Mei	112.9	115.9	140.2
	Jun	113.0	119.3	140.2
	Jul	113.0	123.6	139.4
	Ogos	111.8	127.2	136.3
	Sep	112.6	129.7 ^r	136.6
	Okt	112.9	132.3	136.9
	Nov	113.0	135.0	136.9
	Dis	114.5	137.0	138.2
	2023 Jan	114.8	142.9 ^r	138.2
	Feb	118.6	146.9	137.1
	Mac	117.7	144.9	137.1
	Apr	118.9	141.0	137.1

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

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

(Julai 2017=100)

(July 2017=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak
1 Copper Cables				
1.5 Busduct	2022 Apr	101.5	100.0	101.5
	Mei	101.5	100.0	101.5
	Jun	101.5	100.0	101.5
	Jul	101.5	100.0	101.5
	Ogos	101.5	100.0	101.5
	Sep	101.5	100.0	101.5
	Okt	101.5	100.0	101.5
	Nov	101.5	100.0	101.5
	Dis	97.7	100.0	97.7
	2023 Jan	97.7	100.0	97.7
	Feb	97.7	100.0	97.7
	Mac	97.7	100.0	97.7
	Apr	97.7	100.0	97.7

Jadual 2: Indeks harga seunit bagi switchgears*Table 2: Unit price index for switchgears***(Julai 2017=100)***(July 2017=100)*

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
2 Switchgears					
2.1 Switchgears (above 1kV)	2022	Apr	100.0	120.8	100.0
		Mei	100.0	125.4	100.0
		Jun	100.0	126.4	100.0
		Jul	100.0	136.2	100.0
		Ogos	100.0	142.0	100.0
		Sep	100.0	151.7	100.0
		Okt	100.0	153.4	100.0
		Nov	100.0	153.4	100.0
		Dis	100.0	153.4	100.0
		2023	Jan	100.0	153.4
	Feb		100.0	153.4	100.0
	Mac		100.0	153.4	100.0
	Apr		100.0	153.4	100.0
2.2 LV Switchboards (Incomer breaker 600A and above)	2022	Apr	146.2	118.4	100.2
		Mei	146.3	122.2	100.2
		Jun	146.3	126.9	100.2
		Jul	146.4	123.8	100.2
		Ogos	147.0	123.1	100.2
		Sep	149.7	122.5	100.2
		Okt	152.3	124.9	100.2
		Nov	152.3	124.9	100.2
		Dis	152.9	124.9	100.2
		2023	Jan	152.9	127.3
	Feb		152.9	128.4	100.2
	Mac		153.1	133.0	100.2
	Apr		154.0	133.2	100.2
2.3 LV Switchboards and Sub Switchboards (Incomer breaker below 600A)	2022	Apr	146.2	118.4	100.2
		Mei	146.3	122.2	100.2
		Jun	146.3	126.9	100.2
		Jul	146.4	123.8	100.2
		Ogos	147.0	123.1	100.2
		Sep	149.7	122.5	100.2
		Okt	152.3	124.9	100.2
		Nov	152.3	124.9	100.2
		Dis	152.9	124.9	100.2
		2023	Jan	152.9	127.3
	Feb		152.9	128.4	100.2
	Mac		153.1	133.0	100.2
	Apr		154.0	133.2	100.2

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)

(Julai 2017=100)

(July 2017=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)	2022	Apr	117.6	109.4	128.7
		Mei	117.6	109.9	128.7
		Jun	117.6	111.5	128.7
		Jul	117.6	113.5	128.7
		Ogos	117.6	113.5	128.7
		Sep	117.6	113.5	128.7
		Okt	117.6	113.5	128.7
		Nov	117.6	113.5	125.4 ^r
	2023	Dis	117.6	113.5	125.4 ^r
		Jan	117.6	114.1	125.4 ^r
		Feb	117.6	114.1	125.4
		Mac	117.6	114.1	125.4
		Apr	117.6	114.1	125.4

**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

(Julai 2017=100)

(July 2017=100)

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
3 Transformers					
3.1 Cast Resin Transformer	2022	Apr	90.6	100.0	90.6
		Mei	91.6	100.0	91.6
	Jun	92.5	100.0	92.5	
	Jul	93.6	100.0	93.6	
	Ogos	93.6	100.0	93.6	
	Sep	93.6	100.0	93.6	
	Okt	93.6	100.0	93.6	
	Nov	93.6	100.0	93.6	
	Dis	93.6	100.0	93.6	
	2023	Jan	93.6	100.0	93.6
		Feb	93.7 ^r	100.0	93.7 ^r
		Mac	93.7	100.0	93.7
		Apr	93.7	100.0	93.7
	3.2 Hermetically Sealed (oil filled) Transformer	2022	Apr	95.5	102.1
Mei			98.9	102.1	98.9
Jun		102.2	102.1	102.2	
Jul		102.2	102.1	102.2	
Ogos		102.2	102.1	102.2	
Sep		102.2	102.1	102.2	
Okt		102.2	102.1	102.2	
Nov		102.2	102.1	102.2	
Dis		102.2	102.1	102.2	
2023		Jan	102.2	102.1	102.2
		Feb	102.2	102.1	102.2
		Mac	102.2	102.1	102.2
		Apr	102.2	102.1	102.2

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*

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

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
4 Generators					
4.1 Generator Sets Ratings Above 500kVA	2022	Apr	68.1	100.0	100.0
		Mei	71.2	100.0	100.0
		Jun	71.2	100.0	100.0
		Jul	71.2	100.0	100.0
		Ogos	71.2	100.0	100.0
		Sep	71.2	100.0	100.0
		Okt	71.2	100.0	100.0
		Nov	71.2	100.0	100.0
		Dis	71.2	100.0	100.0
		2023	Jan	71.2	100.0
	Feb		71.2	100.0	100.0
	Mac		71.2	100.0	100.0
	Apr		71.2	100.0	100.0
4.2 Generator Sets Ratings 500kVA and below	2022	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
		2023	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: 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

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

Item/ Item	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
5 Lightning Protection System & Earthing System					
5.1 Lightning Protection System	2022	Apr	103.3	116.7	150.6
		Mei	103.3	120.2	150.6
		Jun	103.3	123.3	150.6
		Jul	103.3	127.8	156.3
		Ogos	103.3	127.8	161.6
		Sep	103.3	127.8	161.6
		Okt	103.3	127.8	161.6
		Nov	105.8	127.8	161.6
	2023	Dis	110.7	127.8	161.6
		Jan	110.7	128.5	161.6
		Feb	110.7	129.8	161.6
		Mac	111.1	129.8	161.6
		Apr	111.1	130.2	161.6
5.2 Earthing System	2022	Apr	103.3	116.7	150.6
		Mei	103.3	120.2	150.6
		Jun	103.3	123.3	150.6
		Jul	103.3	127.8	156.3
		Ogos	103.3	127.8	161.6
		Sep	103.3	127.8	161.6
		Okt	103.3	127.8	161.6
		Nov	105.8	127.8	161.6
	2023	Dis	110.7	127.8	161.6
		Jan	110.7	128.5	161.6
		Feb	110.7	129.8	161.6
		Mac	111.1	129.8	161.6
		Apr	111.1	130.2	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	2022	Apr	103.3	116.7	150.6
		Mei	103.3	120.2	150.6
		Jun	103.3	123.3	150.6
		Jul	103.3	127.8	156.3
		Ogos	103.3	127.8	161.6
		Sep	103.3	127.8	161.6
		Okt	103.3	127.8	161.6
		Nov	105.8	127.8	161.6
	2023	Dis	110.7	127.8	161.6
		Jan	110.7	128.5	161.6
		Feb	110.7	129.8	161.6
		Mac	111.1	129.8	161.6
		Apr	111.1	130.2	161.6
5.2.ii Earthing System for Distribution Boards and others	2022	Apr	103.3	116.7	150.6
		Mei	103.3	120.2	150.6
		Jun	103.3	123.3	150.6
		Jul	103.3	127.8	156.3
		Ogos	103.3	127.8	161.6
		Sep	103.3	127.8	161.6
		Okt	103.3	127.8	161.6
		Nov	105.8	127.8	161.6
	2023	Dis	110.7	127.8	161.6
		Jan	110.7	128.5	161.6
		Feb	110.7	129.8	161.6
		Mac	111.1	129.8	161.6
		Apr	111.1	130.2	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.*

Jadual 6: Indeks harga seunit bagi air conditioning system

Table 6: Unit price index for air conditioning system

(Julai 2017=100)

(July 2017=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak	
6 Air Conditioning System				
6.1 Water Cooled Chiller	2022	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	
	2023	Jan	100.0	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0
6.2 Air Cooled Chiller	2022	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	
	2023	Jan	100.0	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0
6.3 Water Cooled Package	2022	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	
	2023	Jan	100.0	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)

(Julai 2017=100)

(July 2017=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak	
6 Air Conditioning System				
6.4 Air Cooled Package	2022	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
	2023	Jan	100.0	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	2022	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
	2023	Jan	100.0	100.0
		Feb	100.0	100.0
		Mac	100.0	100.0
		Apr	100.0	100.0
6.5.ii Ceiling Cassette / Mounted	2022	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
	2023	Jan	100.0	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)

(Julai 2017=100)

(July 2017=100)

Item/ Item	Tempoh Period	Kawasan Region	
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak
6 Air Conditioning System			
6.6 VRV System	2022 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
	2023 Jan	100.0	100.0
	Feb	100.0	100.0
	Mac	100.0	100.0
	Apr	100.0	100.0
6.6.ii Outdoor	2022 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
	2023 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)

(Julai 2017=100)

(July 2017=100)

Item/ Item	Tempoh Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak	
7 Motor (Pumpset)				
7.1 Condenser Water Pump	2022	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	
	2023	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	2022	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	
	2023	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	2022	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	
	2023	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)
(Julai 2017=100)**

**Technical notes on Component Cost Index of the
Mechanical and Electrical
Works (M&E) (July 2017=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 elektrikal terpilih ditentukan oleh Jabatan Kerja Raya (JKR) dan Lembaga Pembangunan Industri Pembinaan Malaysia (CIDB). Harga bagi komponen elektrikal diperoleh dari pungutan harga yang dibuat oleh Jabatan Perangkaan Malaysia. Bagi komponen mekanikal, harga diperoleh dari pembekal.
 3. Mulai Julai 2018, Indeks Kos Komponen Kerja-kerja Mekanikal dan Elektrikal adalah berasaskan kepada tahun asas yang telah disemak semula, Julai 2017=100 (Tahun asas sebelumnya: Julai 2012=100).
 4. Bagi kontrak-kontrak yang telah ditandatangani sebelum Julai 2018, 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 Julai 2018 dan seterusnya, indeks baru hendaklah digunakan terus tanpa sebarang pelarasan.
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 July 2018, the Index of Mechanical and Electrical Works Component Cost is based on the revised base year, July 2017=100 (Previous base: July 2012=100).*
 4. *For contracts signed before July 2018, 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 July 2018 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 Component	Faktor pelarasan mengikut kawasan Adjustment factor by region		
	Semenanjung Malaysia	Sabah	Sarawak
(1) Copper Cables			
1.1) Concealed/Surface wiring in conduit (per unit point)	1.0438	0.9980	1.0020
1.2) Cables in trunking (per meter run)	1.0438	0.9980	1.0020
1.3) Cables laid underground (per meter run)			
i) 120 sq. mm and above	1.0664	1.0503	1.0343
ii) Below 120 sq. mm	1.0500	1.0138	1.0523
1.4) Cables on tray/ladder (per meter run)			
i) 120 sq. mm and above	1.0664	1.0503	1.0343
ii) Below 120 sq. mm	1.0500	1.0138	1.0523
1.5) Busduct	1.0920	0.9750	1.0920
(2) Switchgears			
2.1) Switchgears (above 1kV)	0.9290	1.0052	1.0000
2.2) LV Switchboards (Incomer breaker 600A and above)	1.1269	1.1017	1.0000
2.3) LV Switchboards and Sub Switchboards (Incomer breaker below 600A)	1.1269	1.1017	1.0000
2.4) TPN & SPN Distribution Boards (Incomer breaker 100A and below and Feeder Pillars)	1.0897	1.0377	1.0680
(3) Transformers			
3.1) Cast Resin Transformer	0.8624	0.7640	0.8624
3.2) Hermetically Sealed (Oil filled) Transformer	1.0855	0.9340	1.0855
(4) Generators			
4.1) Generator Sets Ratings Above 500kVA	1.0200	1.0330	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	1.1822	1.1555	1.0693
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.	1.1822	1.1555	1.0693
ii) Earthing System for Distribution Boards and others	1.1822	1.1555	1.0693

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	0.9840	0.9580
ii) Outdoor	0.9790	0.9760
(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
(Disember 2012=100) dengan menggunakan in-
deks baru M&E
(Julai 2017=100)**

Contoh mengira indeks lama *Busduct* bagi bulan
Julai 2018 untuk kawasan Semenanjung Malaysia
adalah seperti berikut:

I^j lama Julai 2018 = FP (seperti di **Lampiran A**) x I^j
baru Julai 2018

iaitu, indeks lama Julai 2018:
= 1.0920 x 100.0
= 109.2

di mana,

FP = Faktor Pelarasan

I^j = Indeks bagi kategori bangunan j

j = 1, 8

**Example for calculating the old M&E index
(December 2012=100) using the new M&E index
(July 2017=100)**

*Example for calculating the old index of Busduct for
the month of July 2018 for Peninsular Malaysia is
as follows:*

*Old I^j for July 2018 = AF (as in **Appendix A**) x new
 I^j for July 2018*

*i.e. old index for July 2018:
= 1.0920 x 100.0
= 109.2*

where,

AF = Adjustment Factor

I^j = Index for building category j

j = 1, 8

Sasaran Tarikh Pengumuman Siaran Khas 3
(Untuk Kerja-Kerja Mekanikal dan Elektrikal), Malaysia, 2023
Scheduled Release Dates for Special Release 3
(For Mechanical and Electrical Works), Malaysia, 2023

Tahun <i>Year</i>	Bulan Rujukan <i>Reference Month</i>	Tahun <i>Year</i>	Tarikh Pengumuman <i>Release Date</i>
2023	Januari <i>January</i>	2023	07 Februari <i>07 February</i>
	Februari <i>February</i>		10 Mac <i>10 March</i>
	Mac <i>March</i>		07 April <i>07 April</i>
	April <i>April</i>		09 Mei <i>09 May</i>
	Mei <i>May</i>		09 Jun <i>09 Jun</i>
	Jun <i>June</i>		11 Julai <i>11 July</i>
	Julai <i>July</i>		08 Ogos <i>08 August</i>
	Ogos <i>August</i>		08 September <i>08 September</i>
	September <i>September</i>		11 Oktober <i>11 October</i>
	Oktober <i>October</i>		08 November <i>08 November</i>
	November <i>November</i>		08 Disember <i>08 December</i>
	Disember <i>December</i>	2024	11 Januari <i>11 January</i>