KEMENTERIAN EKONOMI
JABATAN PERANGKAAN MALAYSIA

MALAYSIA

SIARAN KHAS
Special Release **3**

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

SEPTEMBER **2023**
SEPTEMBER

Pemakluman

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.

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

Announcement

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.

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

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA

Tarikh: **11** **Oktober** **2023**
Date: *October*

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 / Twitter / Instagram	:	StatsMalaysia
Emel / *E-mail*	:	info@dosm.gov.my (pertanyaan umum / *general enquiries*) data@dosm.gov.my (pertanyaan & permintaan data / *data request & enquiries*)
Harga / *Price*	:	RM2.00

Diterbitkan pada Oktober 2023 / *Published on October 2023*

ISSN 1985 - 739X

KANDUNGAN
CONTENTS

Muka surat ini sengaja dibiarkan kosong.

This page is deliberately left blank.

JADUAL

TABLE

Muka surat ini sengaja dibiarkan kosong.

This page is deliberately left blank.

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 Sep**	116.1	131.9	135.2
	Okt	116.2	136.7	135.3
	Nov	116.2	141.0	135.3
	Dis	116.9	144.5	135.3[r]
	2023 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
	Mei	123.2	136.1	134.4
	Jun	123.2	135.5	134.4
	Jul	122.1	137.3	137.7
	Ogos	122.4	139.2	137.7
	Sep	122.6	140.0	137.7
1.2 ***Cables in trunking (per meter run)***	**2022 Sep**	116.1	131.9	135.2
	Okt	116.2	136.7	135.3
	Nov	116.2	141.0	135.3
	Dis	116.9	144.5	135.3[r]
	2023 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
	Mei	123.2	136.1	134.4
	Jun	123.2	135.5	134.4
	Jul	122.1	137.3	137.7
	Ogos	122.4	139.2	137.7
	Sep	122.6	140.0	137.7
1.3 ***Cables laid underground (per meter run)***	**2022 Sep**	113.7	109.0	123.6
1.3.i ***120 sq. mm and above***	**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
	Mei	119.7	119.4	127.1
	Jun	119.7	117.7	127.1
	Jul	119.2	117.7	128.8
	Ogos	119.2	117.7	128.8
	Sep	119.2	117.7	128.8

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)

(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 Sep**	112.6	129.7[r]	136.6
1.3.ii ***Below 120 sq. mm***	**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
	Mei	119.2	140.9	137.1
	Jun	119.2	140.3	137.1
	Jul	118.5	141.0	140.1
	Ogos	118.5	142.4	140.0
	Sep	118.5	143.3	140.0
1.4 ***Cables on tray/ladder (per meter run)***	**2022 Sep**	113.7	109.0	123.6
1.4.i ***120 sq. mm and above***	**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
	Mei	119.7	119.4	127.1
	Jun	119.7	117.7	127.1
	Jul	119.2	117.7	128.8
	Ogos	119.2	117.7	128.8
	Sep	119.2	117.7	128.8
1.4.ii ***Below 120 sq. mm***	**2022 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
	Mei	119.2	140.9	137.1
	Jun	119.2	140.3	137.1
	Jul	118.5	141.0	140.1
	Ogos	118.5	142.4	140.0
	Sep	118.5	143.3	140.0

Jadual 1: Indeks harga seunit bagi c*opper 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 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
	Mei	97.7	100.0	97.7
	Jun	97.7	100.0	97.7
	Jul	97.7	100.0	97.7
	Ogos	97.7	100.0	97.7
	Sep	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 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	100.0
	Feb	100.0	153.4	100.0
	Mac	100.0	153.4	100.0
	Apr	100.0	153.4	100.0
	Mei	100.0	153.4	100.0
	Jun	100.0	153.4	100.0
	Jul	100.0	153.4	100.0
	Ogos	100.0	153.4	100.0
	Sep	100.0	153.4	100.0
2.2 *LV Switchboards (Incomer breaker 600A and above)*	**2022 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	100.2
	Feb	152.9	128.4	100.2
	Mac	153.1	133.0	100.2
	Apr	154.0	133.2	100.2
	Mei	153.9	133.2	100.2
	Jun	153.9	133.3	100.2
	Jul	153.9	133.3	100.2
	Ogos	155.9	134.2	100.2
	Sep	155.7	135.4	100.2
2.3 *LV Switchboards and Sub Switchboards (Incomer breaker below 600A)*	**2022 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	100.2
	Feb	152.9	128.4	100.2
	Mac	153.1	133.0	100.2
	Apr	154.0	133.2	100.2
	Mei	153.9	133.2	100.2
	Jun	153.9	133.3	100.2
	Jul	153.9	133.3	100.2
	Ogos	155.9	134.2	100.2
	Sep	155.7	135.4	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 Sep**	117.6	113.5	128.7
	Okt	117.6	113.5	128.7
	Nov	117.6	113.5	125.4[r]
	Dis	117.6	113.5	125.4[r]
	2023 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
	Mei	117.6	114.1	125.4
	Jun	117.6	114.1	125.4
	Jul	117.9	114.1	125.8
	Ogos	117.7	114.1	125.8
	Sep	117.6	114.1	125.8

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 transfomers

(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 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
	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
3.2 *Hermetically Sealed (oil filled) Transformer*	**2022 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
	Mei	102.2	102.1	102.2
	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

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 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	100.0
	Feb	71.2	100.0	100.0
	Mac	71.2	100.0	100.0
	Apr	71.2	100.0	100.0
	Mei	82.2	100.0	100.0
	Jun	84.3	100.0	100.0
	Jul	85.2	100.0	100.0
	Ogos	85.2	100.0	100.0
	Sep	85.2	100.0	100.0
4.2 *Generator Sets Ratings 500kVA and below*	**2022 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	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

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 Sep**	103.3	127.8	161.6
	Okt	103.3	127.8	161.6
	Nov	105.8	127.8	161.6
	Dis	110.7	127.8	161.6
	2023 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
	Mei	111.1	130.2	161.6
	Jun	110.0	128.6	161.6
	Jul	108.4	128.6	161.6
	Ogos	107.4	128.6	161.6
	Sep	106.3	128.6	161.6
5.2 *Earthing System*	**2022 Sep**	103.3	127.8	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*	**Okt**	103.3	127.8	161.6
	Nov	105.8	127.8	161.6
	Dis	110.7	127.8	161.6
	2023 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
	Mei	111.1	130.2	161.6
	Jun	110.0	128.6	161.6
	Jul	108.4	128.6	161.6
	Ogos	107.4	128.6	161.6
	Sep	106.3	128.6	161.6
5.2.ii *Earthing System for Distribution Boards and others*	**2022 Sep**	103.3	127.8	161.6
	Okt	103.3	127.8	161.6
	Nov	105.8	127.8	161.6
	Dis	110.7	127.8	161.6
	2023 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
	Mei	111.1	130.2	161.6
	Jun	110.0	128.6	161.6
	Jul	108.4	128.6	161.6
	Ogos	107.4	128.6	161.6
	Sep	106.3	128.6	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 a*ir 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**	**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
		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
6.2 ***Air Cooled Chiller***	**2022**	**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
		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
6.3 ***Water Cooled Package***	**2022**	**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
		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

Jadual 6: Indeks harga seunit bagi a*ir 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**	**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
		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
6.5 *Split Unit System*	**2022**	**Sep**	100.0	100.0
6.5.i *Wall Mounted*		**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
		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
6.5.ii *Ceiling Cassette / Mounted*	**2022**	**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
		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

Jadual 6: Indeks harga seunit bagi a*ir 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**	**Sep**	100.0	100.0
6.6.i ***Indoor***		**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
		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
6.6.ii Outdoor	**2022**	**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
		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

Jadual 7: Indeks harga seunit bagi m*otor (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**	**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
		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
7.2 *Chilled Water Pump*	**2022**	**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
		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
7.3 *Hose Reel Pump*	**2022**	**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
		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

NOTA TEKNIKAL

TECHNICAL NOTES

Muka surat ini sengaja dibiarkan kosong.

This page is deliberately left blank.

Nota teknikal Indeks Kos Komponen Kerja-kerja Mekanikal dan Elektrikal (M&E) (Julai 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.

Technical notes on Component Cost Index of the Mechanical and Electrical Works (M&E) (July 2017=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 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.*

Muka surat ini sengaja dibiarkan kosong.

This page is deliberately left blank.

LAMPIRAN

APPENDIX

Muka surat ini sengaja dibiarkan kosong.

This page is deliberately left blank.

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 *Component*	**Faktor pelarasan mengikut kawasan** *Adjustment factor by region*	
	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 indeks baru M&E (Julai 2017=100)

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

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

$^{j}\mathbf{I}$ lama Julai 2018 = FP (seperti di **Lampiran A**) x $^{j}\mathbf{I}$ baru Julai 2018

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

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

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

Old $^{j}\mathbf{I}$ *for July 2018 = AF (as in **Appendix A**) x new* $^{j}\mathbf{I}$ *for July 2018*

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

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

Lampiran C
Appendix C

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