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JABATAN PERANGKAAN MALAYSIA

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

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**Pemakluman**

Jabatan Perangkaan Malaysia (DOSM) sedang menjalankan Survei Pendapatan, Perbelanjaan Isi Rumah dan Kemudahan Asas (HIES/BA) 2022 bermula dari 1 Januari 2022 sehingga 31 Disember 2022 dan Survei Ekonomi Tahunan (AES) 2022 bermula dari 15 April 2022 sehingga 30 September 2022. DOSM amat menghargai kerjasama daripada responden yang terpilih untuk memberikan maklumat kepada DOSM serta menjayakan survei ini. Sila layari [www.dosm.gov.my](http://www.dosm.gov.my) untuk maklumat lanjut.

Penerbitan statistik ekonomi dan sosial iaitu PocketStats yang mengandungi statistik suku tahunan dan tahunan boleh diperolehi dari portal DOSM atau melalui pautan [https://bit.ly/PocketStatsS1\\_2022](https://bit.ly/PocketStatsS1_2022).

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 Household Income, Expenditure and Basic Amenities Survey (HIES/BA) 2022 from 1st January 2022 until 31st December 2022 and the Annual Economic Survey (AES) 2022 from 15th April 2022 until 30th September 2022. DOSM greatly appreciates the cooperation given by selected respondents by sharing their information with DOSM and making the survey a success. Please visit [www.dosm.gov.my](http://www.dosm.gov.my) for more information.*

*Economic and social statistics publication namely PocketStats which contain quarterly and annual statistics can be obtained from the DOSM portal or via the link [https://bit.ly/PocketStatsQ1\\_2022](https://bit.ly/PocketStatsQ1_2022). Please be informed that the Government of Malaysia has declared National Statistics Day (MyStats Day) on October*

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**JADUAL**

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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
		<b>1 Copper Cables</b>		
<b>1.1 Concealed/Surface wiring conduit (per unit point)</b>	<b>2021 Ogos</b>	107.5	100.4	129.0
	<b>Sep</b>	107.6	100.4	129.1
	<b>Okt</b>	108.5	100.4	131.4
	<b>Nov</b>	108.6	100.4 <sup>r</sup>	131.4
	<b>Dis</b>	110.6	100.4 <sup>r</sup>	131.7
	<b>2022 Jan</b>	111.1	100.4	133.9
	<b>Feb</b>	113.4	102.7	134.8
	<b>Mac</b>	113.6	104.1	134.8
	<b>Apr</b>	114.3	108.2	135.4
	<b>Mei</b>	115.2	112.4	137.2
	<b>Jun</b>	115.3	118.0	137.2
	<b>Jul</b>	115.7	123.6	137.5
	<b>Ogos</b>	115.2	128.0	135.3
	<b>1.2 Cables in trunking (per meter run)</b>	<b>2021 Ogos</b>	107.5	100.4
<b>Sep</b>		107.6	100.4	129.1
<b>Okt</b>		108.5	100.4	131.4
<b>Nov</b>		108.6	100.4 <sup>r</sup>	131.4
<b>Dis</b>		110.6	100.4 <sup>r</sup>	131.7
<b>2022 Jan</b>		111.1	100.4	133.9
<b>Feb</b>		113.4	102.7	134.8
<b>Mac</b>		113.6	104.1	134.8
<b>Apr</b>		114.3	108.2	135.4
<b>Mei</b>		115.2	112.4	137.2
<b>Jun</b>		115.3	118.0	137.2
<b>Jul</b>		115.7	123.6	137.5
<b>Ogos</b>		115.2	128.0	135.3
<b>1.3 Cables laid underground (per meter run) 1.3.i 120 sq. mm and above</b>		<b>2021 Ogos</b>	107.9	107.0
	<b>Sep</b>	108.3	107.3	120.6
	<b>Okt</b>	108.7	108.4	121.6
	<b>Nov</b>	109.6	108.9	122.4
	<b>Dis</b>	109.9	108.9	122.4
	<b>2022 Jan</b>	111.4	108.9	124.0
	<b>Feb</b>	112.3	108.9	125.3
	<b>Mac</b>	112.4	108.9	125.3
	<b>Apr</b>	114.7	108.9	127.4
	<b>Mei</b>	115.7	108.9	129.1
	<b>Jun</b>	116.0	109.0	129.1
	<b>Jul</b>	115.5	109.0	126.7
	<b>Ogos</b>	112.8	109.0	122.6

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	Tempoh Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
<b>1.1 Copper Cables</b>					
<b>1.3 Cables laid underground (per meter run)</b>					
<b>1.3.ii Below 120 sq. mm</b>					
	<b>2021</b>	Ogos	106.0	103.3	125.2
		Sep	106.1	103.3	125.3
		Okt	106.5	103.0	129.8
		Nov	106.9	104.7 <sup>r</sup>	131.7
		Dis	108.2	107.1 <sup>r</sup>	133.2
	<b>2022</b>	Jan	109.2	107.5	135.3
		Feb	111.0	109.4	136.2
		Mac	111.1	110.7	136.2
		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
<b>1.4 Cables on tray/ladder (per meter run)</b>					
<b>1.4.i 120 sq. mm and above</b>					
	<b>2021</b>	Ogos	107.9	107.0	120.2
		Sep	108.3	107.3	120.6
		Okt	108.7	108.4	121.6
		Nov	109.6	108.9	122.4
		Dis	109.9	108.9	122.4
	<b>2022</b>	Jan	111.4	108.9	124.0
		Feb	112.3	108.9	125.3
		Mac	112.4	108.9	125.3
		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
<b>1.4.ii Below 120 sq. mm</b>					
	<b>2021</b>	Ogos	106.0	103.3	125.2
		Sep	106.1	103.3	125.3
		Okt	106.5	103.0	129.8
		Nov	106.9	104.7 <sup>r</sup>	131.7
		Dis	108.2	107.1 <sup>r</sup>	133.2
	<b>2022</b>	Jan	109.2	107.5	135.3
		Feb	111.0	109.4	136.2
		Mac	111.1	110.7	136.2
		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



**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	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Semenanjung Malaysia <i>Peninsular Malaysia</i>	Sabah	Sarawak
<b>1.1 Copper Cables</b>				
<b>1.5 Busduct</b>	<b>2021</b>			
	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
	<b>2022</b>			
	Jan	100.0	100.0	100.0
	Feb	100.0	100.0	100.0
	Mac	100.0	100.0	100.0
	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	

**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	
		<b>2 Switchgears</b>			
<b>2.1 MV Switchgears</b>	<b>2021</b>	Ogos	100.0	116.3	100.0
		Sep	100.0	116.3	100.0
		Okt	100.0	116.3	100.0
		Nov	100.0	116.3	100.0
		Dis	100.0	116.3	100.0
	<b>2022</b>	Jan	100.0	116.3	100.0
		Feb	100.0	116.3	100.0
		Mac	100.0	116.3	100.0
		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
	<b>2.2 LV Switchboards (Incomer breaker 600A and above)</b>	<b>2021</b>	Ogos	130.0	107.7
		Sep	132.0	107.7	100.2
		Okt	135.9	108.1	100.2
		Nov	137.0	109.3	100.2
		Dis	137.5	113.6	100.2
<b>2022</b>		Jan	137.6	114.0	100.2
		Feb	140.4	114.3	100.2
		Mac	140.4	114.3	100.2
		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
<b>2.3 LV Switchboards and Sub Switchboards (Incomer breaker below 600A)</b>		<b>2021</b>	Ogos	130.0	107.7
		Sep	132.0	107.7	100.2
		Okt	135.9	108.1	100.2
		Nov	137.0	109.3	100.2
		Dis	137.5	113.6	100.2
	<b>2022</b>	Jan	137.6	114.0	100.2
		Feb	140.4	114.3	100.2
		Mac	140.4	114.3	100.2
		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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Semenanjung Malaysia <i>Peninsular Malaysia</i>	Sabah	Sarawak
<b>2 Switchgears</b>				
<b>2.4 TPN &amp; SPN Distribution Boards (Incomer breaker 100A and below and Feeder Pillars)</b>	<b>2021</b> Ogos	106.2	107.2	113.6
	Sep	106.2	107.2	113.6
	Okt	108.8	107.5	113.6
	Nov	110.3	108.4	113.6
	Dis	112.5	108.4	118.2
	<b>2022</b> Jan	112.5	108.4	122.0
	Feb	113.5	109.2	127.8
	Mac	113.5	109.2	128.1
	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

**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
<b>3 Transformers</b>				
<b>3.1 Cast resin transformer</b>				
	<b>2021</b>			
	Ogos	93.5	100.0	93.5
	Sep	93.5	100.0	93.5
	Okt	91.5	100.0	91.5 <sup>f</sup>
	Nov	90.4	100.0	90.4
	Dis	89.2	100.0	89.2
	<b>2022</b>			
	Jan	89.2	100.0	89.2
	Feb	89.2	100.0	89.2
	Mac	89.2	100.0	89.2
	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
<b>3.2 Hermetically sealed (oil filled) transformer</b>				
	<b>2021</b>			
	Ogos	93.6	100.0	93.6
	Sep	93.6	100.0	93.6
	Okt	88.9	100.0	88.9 <sup>f</sup>
	Nov	88.9	100.0	88.9
	Dis	88.9	102.1	88.9
	<b>2022</b>			
	Jan	88.9	102.1	88.9
	Feb	88.9	102.1	88.9
	Mac	88.9	102.1	88.9
	Apr	95.5	102.1	95.5
	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

**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
<b>4 Generators</b>				
<b>4.1 Generator Sets Ratings Above 500kVA</b>				
	<b>2021 Ogos</b>	59.1	100.0	100.0
	<b>Sep</b>	59.1	100.0	100.0
	<b>Okt</b>	59.1	100.0	100.0
	<b>Nov</b>	59.1	100.0	100.0
	<b>Dis</b>	59.1	100.0	100.0
	<b>2022 Jan</b>	59.1	100.0	100.0
	<b>Feb</b>	61.0	100.0	100.0
	<b>Mac</b>	63.5	100.0	100.0
	<b>Apr</b>	68.1	100.0	100.0
	<b>Mei</b>	71.2	100.0	100.0
	<b>Jun</b>	71.2	100.0	100.0
	<b>Jul</b>	71.2	100.0	100.0
	<b>Ogos</b>	71.2	100.0	100.0
<b>4.2 Generator Sets Ratings 500kVA and below</b>				
	<b>2021 Ogos</b>	100.0	100.0	100.0
	<b>Sep</b>	100.0	100.0	100.0
	<b>Okt</b>	100.0	100.0	100.0
	<b>Nov</b>	100.0	100.0	100.0
	<b>Dis</b>	100.0	100.0	100.0
	<b>2022 Jan</b>	100.0	100.0	100.0
	<b>Feb</b>	100.0	100.0	100.0
	<b>Mac</b>	100.0	100.0	100.0
	<b>Apr</b>	100.0	100.0	100.0
	<b>Mei</b>	100.0	100.0	100.0
	<b>Jun</b>	100.0	100.0	100.0
	<b>Jul</b>	100.0	100.0	100.0
	<b>Ogos</b>	100.0	100.0	100.0

**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
<b>5 Lightning Protection System &amp; Earthing System</b>				
<b>5.1 Lightning Protection System</b>	<b>2021 Ogos</b>	101.0	108.0	122.6
	Sep	101.0	108.0	125.2
	Okt	102.2	108.0	128.1
	Nov	102.4	110.4	131.9
	Dis	102.5	112.6	137.8
	<b>2022 Jan</b>	102.6	112.6	141.7
	Feb	102.8	112.6	150.6
	Mac	103.3	112.6	150.6
	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
<b>5.2 Earthing System</b>	<b>2021 Ogos</b>	101.0	108.0	122.6
<b>5.2.i Earthing System for Earthing system for MV Switchgears, Transformers, LV Switchboards and Sub Switchboards, Generator Sets, Feeder Pillars and Traffic lights controllers</b>	Sep	101.0	108.0	125.2
	Okt	102.2	108.0	128.1
	Nov	102.4	110.4	131.9
	Dis	102.5	112.6	137.8
	<b>2022 Jan</b>	102.6	112.6	141.7
	Feb	102.8	112.6	150.6
	Mac	103.3	112.6	150.6
	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
<b>5.2.ii Earthing System for Distribution Boards and others</b>	<b>2021 Ogos</b>	101.0	108.0	122.6
	Sep	101.0	108.0	125.2
	Okt	102.2	108.0	128.1
	Nov	102.4	110.4	131.9
	Dis	102.5	112.6	137.8
	<b>2022 Jan</b>	102.6	112.6	141.7
	Feb	102.8	112.6	150.6
	Mac	103.3	112.6	150.6
	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

**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
<b>6 Air Conditioning System</b>			
<b>6.1 Water Cooled Chiller</b>	<b>2021</b> 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
	<b>2022</b> 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
	<b>6.2 Air Cooled Chiller</b>	<b>2021</b> Ogos	100.0
Sep		100.0	100.0
Okt		100.0	100.0
Nov		100.0	100.0
Dis		100.0	100.0
<b>2022</b> 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
<b>6.3 Water Cooled Package</b>		<b>2021</b> Ogos	100.0
	Sep	100.0	100.0
	Okt	100.0	100.0
	Nov	100.0	100.0
	Dis	100.0	100.0
	<b>2022</b> 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

**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	Tempoh <i>Period</i>	Kawasan <i>Region</i>	
		Semenanjung Malaysia <i>Peninsular Malaysia</i>	Sabah & Sarawak
<b>6 Air Conditioning System</b>			
<b>6.4 Air Cooled Package</b>	<b>2021</b> 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
	<b>2022</b> 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
	<b>6.5 Split Unit System</b> <b>6.5.i Wall Mounted</b>	<b>2021</b> Ogos	100.0
Sep		100.0	100.0
Okt		100.0	100.0
Nov		100.0	100.0
Dis		100.0	100.0
<b>2022</b> 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
<b>6.5.ii Ceiling Cassette / Mounted</b>		<b>2021</b> Ogos	100.0
	Sep	100.0	100.0
	Okt	100.0	100.0
	Nov	100.0	100.0
	Dis	100.0	100.0
	<b>2022</b> 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



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

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

Item	Tempoh <i>Period</i>	Kawasan <i>Region</i>		
		Semenanjung Malaysia <i>Peninsular Malaysia</i>	Sabah & Sarawak	
<b>6 Air Conditioning System</b>				
6.6 VRV System 6.6.i Indoor	2021 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	
	2022 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	
	6.6.ii Outdoor	2021 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	
2022 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	

**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
<b>7 Motor (Pumpset)</b>			
<b>7.1 Condenser Water Pump</b>			
	2021 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
	2022 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
<b>7.2 Chilled Water Pump</b>			
	2021 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
	2022 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
<b>7.3 Hose Reel Pump</b>			
	2021 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
	2022 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

**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
<b>(1) Copper Cables</b>			
1.1) Concealed/Surface wiring using G.I conduit (per unit point)	1.0438	0.9980	1.0020
1.2) Cables in galvanized 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
<b>(2) Switchgears</b>			
2.1) HT Switchgears	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)	1.0897	1.0377	1.0680
<b>(3) Transformers</b>			
3.1) Low loss cast resin transformer	0.8624	0.7640	0.8624
3.2) Low loss hermetically sealed (oil filled) transformer	1.0855	0.9340	1.0855
<b>(4) Generators</b>			
4.1) Generator Ratings Above 500kVA	1.0200	1.0330	1.0000
4.2) Generator Ratings 500kVA and below	1.0000	1.0000	1.0000
<b>(5) Lightning Protection System &amp; Earthing System</b>			
5.1) Lightning Protection System	1.1822	1.1555	1.0693
5.2) Earthing System			
i) Earthing System for Main Switchboards and Sub Switchboards	1.1822	1.1555	1.0693
ii) Earthing System for Distribution Boards	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
<b>(6) Air Conditioning System</b>		
6.1) <i>Water Cooled Chiller</i>	1.0000	1.0000
6.2) <i>Air Cooled Chiller</i>	1.0000	1.0000
6.3) <i>Water Cooled Package</i>	1.0000	1.0000
6.4) <i>Air Cooled Package</i>	1.0000	1.0000
6.5) <i>Split Unit System</i>		
i) <i>Wall Mounted</i>	1.0000	1.0000
ii) <i>Ceiling Cassette / Mounted</i>	1.0000	1.0000
6.6) <i>VRV System</i>		
i) <i>Indoor</i>	0.9840	0.9580
ii) <i>Outdoor</i>	0.9790	0.9760
<b>(7) Motor (Pumpset)</b>		
7.1) <i>Condenser Water Pump</i>	1.0080	1.0080
7.2) <i>Chilled Water Pump</i>	1.0080	1.0080
7.3) <i>Hose Reel Pump</i>	1.0060	1.0060

Contoh pengiraan indeks lama M&E  
(Disember 2012=100) dengan menggunakan in-  
deks 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:

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

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

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

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

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

di mana,

FP = Faktor Pelarasan

${}^j I$  = Indeks bagi kategori bangunan j

j = 1, ..... 8

where,

AF = Adjustment Factor

${}^j I$  = Index for building category j

j = 1, ..... 8

**Sasaran Tarikh Pengumuman Siaran Khas 3**  
**(Untuk Kerja-Kerja Mekanikal dan Elektrikal), Malaysia, 2022**  
*Scheduled Release Dates for Special Release 3*  
*(For Mechanical and Electrical Works), Malaysia, 2022*

<b>Tahun</b> <i>Year</i>	<b>Bulan Rujukan</b> <i>Reference Month</i>	<b>Tahun</b> <i>Year</i>	<b>Tarikh Pengumuman</b> <i>Release Date</i>
<b>2022</b>	<b>Januari</b> <i>January</i>	<b>2022</b>	<b>10 Februari</b> <i>10 February</i>
	<b>Februari</b> <i>February</i>		<b>10 Mac</b> <i>10 March</i>
	<b>Mac</b> <i>March</i>		<b>08 April</b> <i>08 April</i>
	<b>April</b> <i>April</i>		<b>11 Mei</b> <i>11 May</i>
	<b>Mei</b> <i>May</i>		<b>09 Jun</b> <i>09 Jun</i>
	<b>Jun</b> <i>June</i>		<b>07 Julai</b> <i>07 July</i>
	<b>Julai</b> <i>July</i>		<b>10 Ogos</b> <i>10 August</i>
	<b>Ogos</b> <i>August</i>		<b>08 September</b> <i>08 September</i>
	<b>September</b> <i>September</i>		<b>11 Oktober</b> <i>11 October</i>
	<b>Oktober</b> <i>October</i>		<b>09 November</b> <i>09 November</i>
	<b>November</b> <i>November</i>		<b>08 Disember</b> <i>08 December</i>
	<b>Disember</b> <i>December</i>		<b>2023</b> <b>09 Januari</b> <i>09 January</i>