



JABATAN PERDANA MENTERI
JABATAN PERANGKAAN MALAYSIA

MALAYSIA

SIARAN KHAS
Special Release

3

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

FEBRUARI 2022
FEBRUARY

Pemakluman / Announcement:

Jabatan Perangkaan Malaysia sedang menjalankan Survei Pendapatan, Perbelanjaan Isi Rumah dan Kemudahan Asas (HIES/BA) 2022 bermula dari 1 Januari 2022 sehingga 31 Disember 2022.

Department of Statistics Malaysia is conducting Household Income, Expenditure and Basic Amenities Survey (HIES/BA) 2022 from 1st January 2022 until 31st December 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"

*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

Tarikh: **10** Mac **2022**
Date: *March*

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 Mac 2022 / *Published on March 2022*

Hakcipta terpelihara / All rights reserved.

Tiada bahagian daripada terbitan ini boleh diterbitkan semula, disimpan untuk pengeluaran atau ditukar dalam apa-apa bentuk atau alat apa jua pun kecuali setelah mendapat kebenaran daripada Jabatan Perangkaan Malaysia. Pengguna yang mengeluarkan sebarang maklumat dari terbitan ini sama ada yang asal atau diolah semula hendaklah meletakkan kenyataan berikut:

“Sumber: Jabatan Perangkaan Malaysia”.

No part of this publication may be reproduced or distributed in any form or by any means or stored in data base without the prior written permission from Department of Statistics, Malaysia. Users reproducing content of this publication with or without adaptation should quote the following:

“Source: Department of Statistics, Malaysia.”

ISSN 1985 - 739X

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>
	7
Jadual 2 <i>Table 2</i>	: Indeks harga seunit bagi <i>switchgears</i> <i>: Unit price index for switchgears</i>
	10
Jadual 3 <i>Table 3</i>	: Indeks harga seunit bagi <i>transformers</i> <i>: Unit price index for transformers</i>
	12
Jadual 4 <i>Table 4</i>	: Indeks harga seunit bagi <i>generators</i> <i>: Unit price index for generators</i>
	13
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>
	14
Jadual 6 <i>Table 6</i>	: Indeks harga seunit bagi <i>air conditioning system</i> <i>: Unit price index for air conditioning system</i>
	15
Jadual 7 <i>Table 7</i>	: Indeks harga seunit bagi <i>motor (pumpset)</i> <i>: Unit price index for motor (pumpset)</i>
	18
Nota teknikal <i>Technical notes</i>	21
Lampiran A <i>Appendix A</i>	: Jadual faktor pelarasan <i>: Adjustment factor table</i>
	25
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>
	27
Lampiran C <i>Appendix C</i>	: Sasaran Tarikh Pengumuman Siaran Khas 3 (Untuk Kerja-kerja Mekanikal dan Elektrikal), Malaysia, 2022 <i>Scheduled of Release Dates for Special Release 3 (For Mechanical and Electrical Works), Malaysia, 2022</i>
	28

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 using G.I conduit (per unit point)	2021 Feb	103.4	100.0	110.9
	Mac	102.2	100.4	110.9
	Apr	106.4	100.4	111.7
	Mei	106.5	100.4	122.6
	Jun	106.6	100.4	128.3
	Jul	107.5	100.4	129.2
	Ogos	107.5	100.4	129.0
	Sep	107.6	100.4	129.1
	Okt	108.5	100.4	131.4
	Nov	108.6	100.4 ^r	131.4
	Dis	110.6	100.4 ^r	131.7
	2022 Jan	111.1	100.4	133.9
	Feb	113.4	102.7	134.8
1.2 Cables in galvanized trunking (per meter run)	2021 Feb	103.4	100.0	110.9
	Mac	102.2	100.4	110.9
	Apr	106.4	100.4	111.7
	Mei	106.5	100.4	122.6
	Jun	106.6	100.4	128.3
	Jul	107.5	100.4	129.2
	Ogos	107.5	100.4	129.0
	Sep	107.6	100.4	129.1
	Okt	108.5	100.4	131.4
	Nov	108.6	100.4 ^r	131.4
	Dis	110.6	100.4 ^r	131.7
	2022 Jan	111.1	100.4	133.9
	Feb	113.4	102.7	134.8
1.3 Cables laid underground (per meter run)	2021 Feb	101.4	102.2	107.6
1.3.i 120 sq. mm and above	Mac	103.3	103.9	109.4
	Apr	105.9	105.6	111.2
	Mei	107.6	107.2	118.3
	Jun	108.7	108.0	121.3
	Jul	107.5	106.6	119.8
	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
	2022 Jan	111.4	108.9	124.0
	Feb	112.3	108.9	125.3

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
1.1 Copper Cables				
1.3 Cables laid underground (per meter run)	2021 Feb	101.5	101.4	109.4
1.3.ii Below 120 sq. mm	Mac	101.8	102.1	110.1
	Apr	105.0	102.8	111.1
	Mei	105.6	103.3	120.7
	Jun	106.0	103.6	125.3
	Jul	106.0	103.3	125.3
	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 ^f	131.7
	Dis	108.2	107.1 ^f	133.2
	2022 Jan	109.2	107.5	135.3
	Feb	111.0	109.4	136.2
1.4 Cables on tray/ladder (per meter run)	2021 Feb	101.4	102.2	107.6
1.4.i 120 sq. mm and above	Mac	103.3	103.9	109.4
	Apr	105.9	105.6	111.2
	Mei	107.6	107.2	118.3
	Jun	108.7	108.0	121.3
	Jul	107.5	106.6	119.8
	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
	2022 Jan	111.4	108.9	124.0
	Feb	112.3	108.9	125.3
1.4.ii Below 120 sq. mm	2021 Feb	101.5	101.4	109.4
	Mac	101.8	102.1	110.1
	Apr	105.0	102.8	111.1
	Mei	105.6	103.3	120.7
	Jun	106.0	103.6	125.3
	Jul	106.0	103.3	125.3
	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 ^f	131.7
	Dis	108.2	107.1 ^f	133.2
	2022 Jan	109.2	107.5	135.3
	Feb	111.0	109.4	136.2

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
1.1 Copper Cables				
1.5 Busduct	2021 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
	2022 Jan	100.0	100.0	100.0
	Feb	100.0	100.0	100.0

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 HT Switchgears	2021	Feb	100.0	116.3	100.0
		Mac	100.0	116.3	100.0
		Apr	100.0	116.3	100.0
		Mei	100.0	116.3	100.0
		Jun	100.0	116.3	100.0
		Jul	100.0	116.3	100.0
		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
		2022	Jan	100.0	116.3
	Feb	100.0	116.3	100.0	
2.2 LV Switchboards (Incomer breaker 600A and above)	2021	Feb	118.1	98.0	100.2
		Mac	125.1	100.6	100.2
		Apr	130.6	100.6	100.2
		Mei	130.0	100.9	100.2
		Jun	130.0	102.1	100.2
		Jul	130.0	107.7	100.2
		Ogos	130.0	107.7	100.2
		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
		2022	Jan	137.6	114.0
	Feb	140.4	114.3	100.2	
2.3 LV Switchboards and Sub Switchboards (Incomer breaker below 600A)	2021	Feb	118.1	98.0	100.2
		Mac	125.1	100.6	100.2
		Apr	130.6	100.6	100.2
		Mei	130.0	100.9	100.2
		Jun	130.0	102.1	100.2
		Jul	130.0	107.7	100.2
		Ogos	130.0	107.7	100.2
		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
		2022	Jan	137.6	114.0
	Feb	140.4	114.3	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 Period	Kawasan Region			
		Semenanjung Malaysia Peninsular Malaysia	Sabah	Sarawak	
2 Switchgears					
2.4 TPN & SPN Distribution Boards (Incomer breaker 100A and below)	2021	Feb	104.2	102.4	109.4
		Mac	104.1	104.3	109.4
		Apr	106.0	104.3	109.4
		Mei	106.0	104.3	113.6
		Jun	106.5	104.3	113.6
		Jul	106.2	107.2	113.6
		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
		2022	Jan	112.5	108.4
	Feb		113.5	109.2	127.8

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 Low loss cast resin transformer	2021 Feb	93.4	100.0	93.4
	Mac	93.4	100.0	93.4
	Apr	93.5	100.0	93.5 ^r
	Mei	93.5	100.0	93.5 ^r
	Jun	93.5	100.0	93.5
	Jul	93.5	100.0	93.5
	Ogos	93.5	100.0	93.5
	Sep	93.5	100.0	93.5
	Okt	91.5	100.0	91.5 ^r
	Nov	90.4	100.0	90.4
	Dis	89.2	100.0	89.2
	2022 Jan	89.2	100.0	89.2
	Feb	89.2	100.0	89.2
3.2 Low loss hermetically sealed (oil filled) transformer	2021 Feb	93.6	100.0	93.6
	Mac	93.6	100.0	93.6
	Apr	93.6	100.0	93.6
	Mei	93.6	100.0	93.6
	Jun	93.6	100.0	93.6
	Jul	93.6	100.0	93.6
	Ogos	93.6	100.0	93.6
	Sep	93.6	100.0	93.6
	Okt	88.9	100.0	88.9 ^r
	Nov	88.9	100.0	88.9
	Dis	88.9	102.1	88.9
	2022 Jan	88.9	102.1	88.9
	Feb	88.9	102.1	88.9

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 Ratings Above 500kVA	2021 Feb	59.1	100.0	100.0
	Mac	59.1	100.0	100.0
	Apr	59.1	100.0	100.0
	Mei	59.1	100.0	100.0
	Jun	59.1	100.0	100.0
	Jul	59.1	100.0	100.0
	Ogos	59.1	100.0	100.0
	Sep	59.1	100.0	100.0
	Okt	59.1	100.0	100.0
	Nov	59.1	100.0	100.0
	Dis	59.1	100.0	100.0
	2022 Jan	59.1	100.0	100.0
	Feb	61.0	100.0	100.0
4.2 Generator Ratings 500kVA and below	2021 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
	2022 Jan	100.0	100.0	100.0
	Feb	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
5 Lightning Protection System & Earthing System				
5.1 Lightning Protection System	2021 Feb	101.0	113.5	100.1
	Mac	101.0	113.5	100.1
	Apr	101.0	113.5	100.1
	Mei	101.0	108.0	116.3 ^r
	Jun	101.0	108.0	119.0
	Jul	101.0	108.0	119.0
	Ogos	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
	2022 Jan	102.6	112.6	141.7
	Feb	102.8	112.6	150.6
5.2 Earthing System				
5.2.i Earthing System for Main Switchboards and Sub Switchboards	2021 Feb	101.0	113.5	100.1
	Mac	101.0	113.5	100.1
	Apr	101.0	113.5	100.1
	Mei	101.0	108.0	111.8
	Jun	101.0	108.0	116.3
	Jul	101.0	108.0	119.0
	Ogos	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
	2022 Jan	102.6	112.6	141.7
	Feb	102.8	112.6	150.6
5.2.ii Earthing System for Distribution Boards				
5.2.ii Earthing System for Distribution Boards	2021 Feb	101.0	113.5	100.1
	Mac	101.0	113.5	100.1
	Apr	101.0	113.5	100.1
	Mei	101.0	108.0	111.8
	Jun	101.0	108.0	116.3
	Jul	101.0	108.0	119.0
	Ogos	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
	2022 Jan	102.6	112.6	141.7
	Feb	102.8	112.6	150.6

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
6 Air Conditioning System			
6.1 Water Cooled Chiller	2021 Feb	100.0	100.0
		Mac	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
	2022 Jan	100.0	100.0
		Feb	100.0
6.2 Air Cooled Chiller	2021 Feb	100.0	100.0
		Mac	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
	2022 Jan	100.0	100.0
		Feb	100.0
6.3 Water Cooled Package	2021 Feb	100.0	100.0
		Mac	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
	2022 Jan	100.0	100.0
		Feb	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
6 Air Conditioning System			
6.4 Air Cooled Package	2021 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
	2022 Jan	100.0	100.0
	Feb	100.0	100.0
6.5 Split Unit System			
6.5.i Wall Mounted	2021 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
	2022 Jan	100.0	100.0
	Feb	100.0	100.0
6.5.ii Ceiling Cassette / Mounted			
6.5.ii Ceiling Cassette / Mounted	2021 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
	2022 Jan	100.0	100.0
	Feb	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 Period	Kawasan Region		
		Semenanjung Malaysia Peninsular Malaysia	Sabah & Sarawak	
6 Air Conditioning System				
6.6 VRV System 6.6.i Indoor	2021	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
		2022	Jan	100.0
	Feb		100.0	100.0
	6.6.ii Outdoor	2021	Feb	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
2022			Jan	100.0
		Feb	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	2021	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
		2022	Jan	100.0
	Feb		100.0	100.0
7.2 Chilled Water Pump	2021	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
		2022	Jan	100.0
	Feb		100.0	100.0
7.3 Hose Reel Pump	2021	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
		2022	Jan	100.0
	Feb		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)**

**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.*

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 <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 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
(2) Switchgears			
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
(3) Transformers			
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
(4) Generators			
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
(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 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
(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, 2022
Scheduled Release Dates for Special Release 3
(For Mechanical and Electrical Works), Malaysia, 2022

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