



KEMENTERIAN EKONOMI  
JABATAN PERANGKAAN MALAYSIA

# INDEKS PENGELUARAN PERINDUSTRIAN INDEX OF INDUSTRIAL PRODUCTION

MALAYSIA [ 2015 = 100 ]

OGOS  
AUGUST 2023

Diterbitkan pada : 12 Oktober 2023  
Released on October

## 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".*

Diterbitkan dan dicetak oleh / *Published and printed by:*

**Jabatan Perangkaan Malaysia**

***Department of Statistics Malaysia***

Blok C6 & C7, 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 / Email : info@dosm.gov.my (pertanyaan umum / *general enquiries*)  
data@dosm.gov.my (pertanyaan & permintaan data /  
*data request & enquiries*)

Harga / *Price*: RM7.00

Diterbitkan pada Oktober 2023 / *Published in October 2023*

**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 database 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 0128 - 3480**

# KATA PENGANTAR

---

Penerbitan Indeks Pengeluaran Perindustrian (IPP) merupakan penerbitan bulanan yang meliputi tiga sektor utama iaitu Perlombongan, Pembuatan dan Elektrik selari dengan definisi perindustrian dalam International Recommendations for the Index of Industrial Production (IRIIP), 2010. IPP telah disusun buat kali pertama dengan menggunakan tahun 1968 sebagai tahun asas (1968=100). Selepas itu ia telah diasaskan semula kepada tahun 1981, 1985, 1988, 1993, 2000, 2005, 2010 dan kini 2015.

Objektif utama IPP adalah untuk mengukur kadar perubahan sebenar pengeluaran komoditi perindustrian bagi pelbagai industri dalam ekonomi dalam tempoh masa yang ditetapkan. Ianya digunakan untuk membantu pengguna dalam merangka dasar serta membuat keputusan. Data pengeluaran produk pembuatan diperoleh daripada Survei Pembuatan Bulanan. Manakala pengeluaran minyak mentah, gas asli dan penjanaan tenaga elektrik diperoleh daripada syarikat minyak, gas dan syarikat yang menjalankan aktiviti penjanaan tenaga elektrik di Malaysia.

Ringkasan penemuan utama dan jadual terperinci indeks dipaparkan pada bahagian pertama dan kedua penerbitan. Seterusnya, diikuti dengan nota teknikal, skop dan liputan, konsep dan definisi serta kaedah pengiraan dimuatkan pada bahagian terakhir penerbitan bagi meningkatkan kefahaman berkenaan IPP.

Jabatan Perangkaan Malaysia merakamkan penghargaan atas kerjasama yang diberikan oleh responden dan juga semua pihak yang telah menyumbang secara langsung dan tidak langsung dalam menjayakan penerbitan ini. Segala maklum balas dan cadangan untuk penambahbaikan penerbitan ini pada masa akan datang amat dihargai.

**Dato' Sri Dr. Mohd Uzir Mahidin**

Ketua Perangkawan Malaysia

Oktober 2023

*The Industrial Production Index (IPI) publication is a monthly publication which covers three main sectors namely Mining, Manufacturing and Electricity which in line with the industrial definition in the International Recommendations for the Index of Industrial Production (IRIIP), 2010. The IPI was compiled for the first time using 1968 as the base year (1968 = 100). Subsequently, it has been rebased to 1981, 1985, 1988, 1993, 2000, 2005, 2010 and now 2015.*

*The main objective of the IPI is to measure the rate of changes in the production of industrial commodities for various industries of the economy within a specified time period. Hence, it is used to assist users in policy formulation and decision making. Data for production of manufactured products is obtained from the Monthly Manufacturing Survey. Meanwhile, production of crude oil, natural gas and electricity generation were obtained from oil, gas and electricity companies which involved in generation activities in Malaysia.*

*The summary of the main findings and the detailed index tables are presented in the first and second part of this publication. Then, followed by technical notes, scope and coverage, concepts and definitions and calculation techniques are included in the final part of this publication to enhance understanding of IPI.*

*The Department of Statistics Malaysia gratefully acknowledges the co-operation rendered by the respondents as well as all parties who have contributed directly and indirectly in making this publication a success. Every feedback and suggestion towards improving future publication is highly appreciated.*

**Dato' Sri Dr. Mohd Uzir Mahidin**

Chief Statistician Malaysia

October 2023

# KANDUNGAN

## CONTENTS

i-ii	<b>Kata Pengantar</b> <i>Preface</i>
iii	<b>Kandungan</b> <i>Contents</i>
iv	<b>Kalendar Awalan Keluaran 2023</b> <i>Advance Release Calendar Year 2023</i>
	<b>Bahagian I Ringkasan Penemuan</b> <i>Section I Summary Findings</i>
	<b>Infografik Indeks Pengeluaran Perindustrian (IPP), Ogos 2023</b> <i>Infographic of Industrial Production Index (IPI), August 2023</i>
1-8	<b>Ringkasan Indeks Pengeluaran Perindustrian (IPP), Ogos 2023</b> <i>Summary of Industrial Production Index (IPI), August 2023</i>
	<b>Bahagian II Jadual Statistik</b> <i>Section II Statistical Tables</i>
9	<b>Indeks Pengeluaran Perindustrian (IPP) dan Indeks Sektor (2015=100)</b> <i>Industrial Production Index (IPI) and Sector Indices (2015=100)</i>
10	<b>Pertumbuhan Indeks Pengeluaran Perindustrian (IPP) dan Indeks Sektor</b> <i>Growth of Industrial Production Index (IPI) and Sector Indices</i>
11-12	<b>Indeks Pengeluaran Perindustrian (IPP) dan Indeks Sektor (2015=100): Indeks Asal &amp; Indeks Pelarasan Musim</b> <i>Industrial Production Index (IPI) and Sector Indices (2015=100): Original Indices &amp; Seasonally Adjusted Indices</i>
13	<b>Indeks Perlombongan Peringkat Industri dan Komoditi (2015=100)</b> <i>Mining Indices at Industry and Commodity Level (2015=100)</i>
14-56	<b>Indeks Pembuatan Peringkat Industri (2015=100)</b> <i>Manufacturing Indices at Industry Level (2015=100)</i>
57-78	<b>Indeks Pembuatan Peringkat Kumpulan (2015=100)</b> <i>Manufacturing Indices at Group Level (2015=100)</i>
79	<b>Indeks Pembuatan Peringkat Bahagian (2015=100)</b> <i>Manufacturing Indices at Division Level (2015=100)</i>
80	<b>Peratus Perubahan Indeks Pembuatan Peringkat Bahagian</b> <i>Percentage Change of Manufacturing Indices at Division Level</i>
81	<b>Indeks Pembuatan mengikut Industri Berorientasikan Eksport dan Domestik (2015=100)</b> <i>Manufacturing Indices by Exports and Domestic Oriented Industries (2015=100)</i>
82	<b>Peratus Perubahan Indeks Pembuatan mengikut Industri Berorientasikan Eksport dan Domestik</b> <i>Percentage Change of Manufacturing Indices by Exports and Domestic Oriented Industries</i>
83-91	<b>Bahagian III Nota Teknikal</b> <i>Section III Technical Notes</i>
92-98	<b>Bahagian IV Lampiran</b> <i>Section IV Appendix</i>

# KALENDAR AWALAN KELUARAN 2023

## ADVANCE RELEASE CALENDAR 2023

<b>Bulan Rujukan</b> <i>Reference Month</i>	<b>Tarikh</b> <i>Date</i>
Januari 2023 <i>January 2023</i>	13.03.2023
Februari 2023 <i>February 2023</i>	11.04.2023
Mac 2023 <i>March 2023</i>	09.05.2023
April 2023 <i>April 2023</i>	09.06.2023
Mei 2023 <i>May 2023</i>	12.07.2023
Jun 2023 <i>June 2023</i>	08.08.2023
Julai 2023 <i>July 2023</i>	11.09.2023
Ogos 2023 <i>August 2023</i>	12.10.2023
September 2023 <i>September 2023</i>	07.11.2023
Oktober 2023 <i>October 2023</i>	11.12.2023
November 2023 <i>November 2023</i>	11.01.2024
Disember 2023 <i>December 2023</i>	07.02.2024

**Nota:**  
*Notes:*

**\*Merujuk kepada tarikh data disebarkan kepada media atau dalam penerbitan khusus.**  
*Refers to the date of release of the data to the media or in the specific publication.*

**\*Tarikh siaran tertakluk kepada pindaan.**  
*Release dates are subject to change.*



**RINGKASAN PENEMUAN**  
*SUMMARY OF FINDINGS*

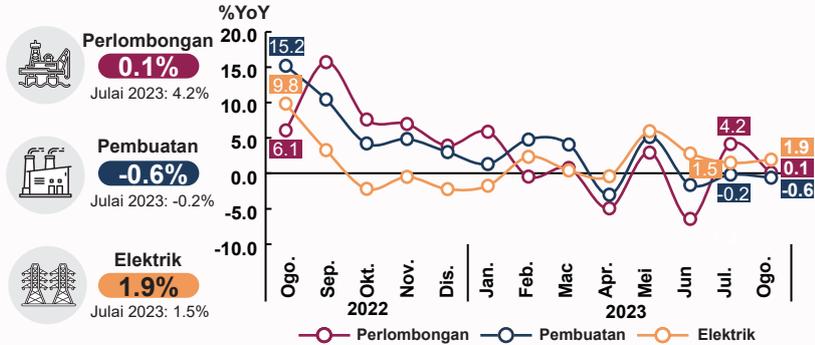
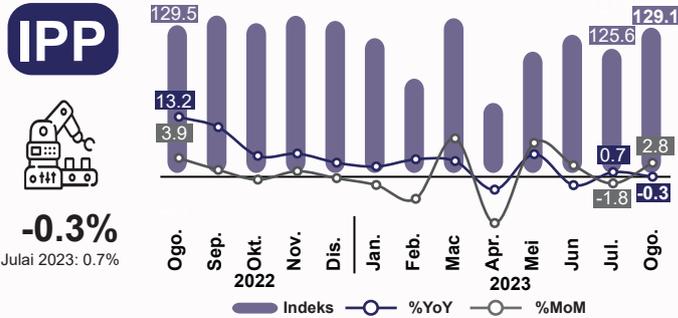






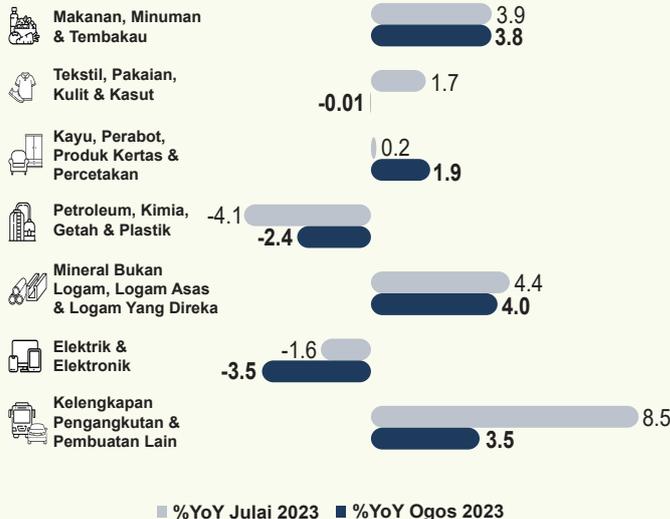
# Indeks Pengeluaran Perindustrian Malaysia Ogos 2023

Indeks Pengeluaran Perindustrian susut 0.3 peratus pada Ogos 2023 berikutan penurunan industri Pembuatan berorientasikan eksport manakala industri berorientasikan domestik terus berkembang



## Pembuatan

Kemerosotan pengeluaran Pembuatan dipengaruhi terutamanya oleh subsektor Elektrik & Elektronik (-3.5%) dan Petroleum, Kimia, Getah & Plastik (-2.4%)



## Perlombongan

Pengeluaran sektor Perlombongan tumbuh marginal kepada 0.1 peratus dipacu oleh momentum peningkatan 2.6 peratus dalam Gas Asli manakala Minyak Mentah & Kondensat menyusut 3.3 peratus



## Industri Berorientasikan Eksport dan Domestik

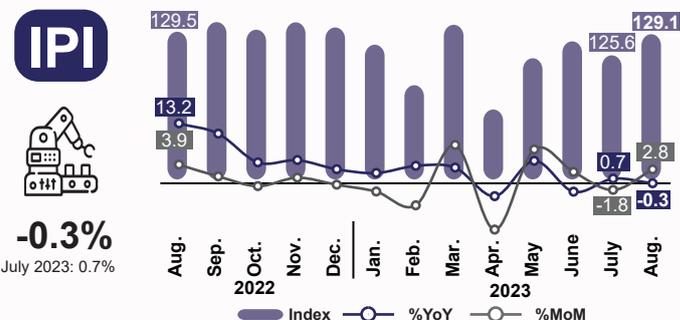
Industri berorientasikan eksport menurun 2.6 peratus manakala industri berorientasikan domestik terus berkembang 4.2 peratus





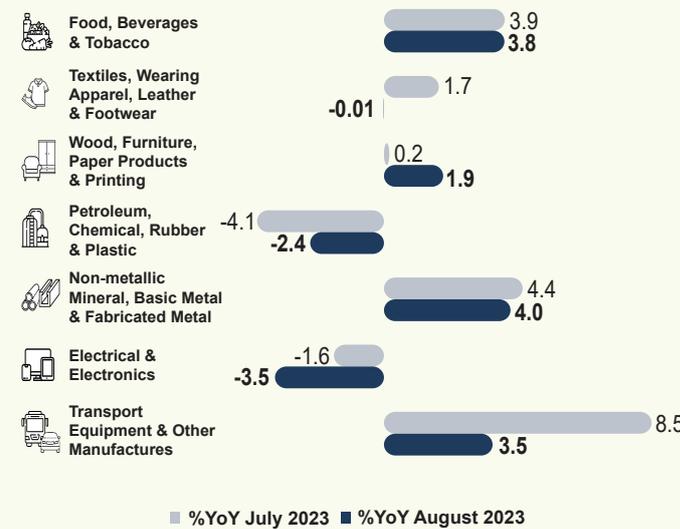
# Malaysia's Industrial Production Index August 2023

## Industrial Production Index dipped 0.3 per cent in August 2023 as Manufacturing export-oriented industries declined while the domestic-oriented industries continued to expand



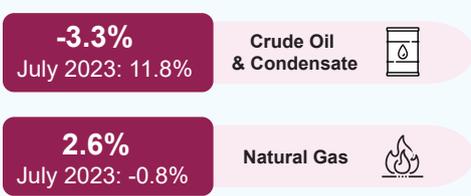
### Manufacturing

The deterioration in Manufacturing output was primarily influenced by the Electrical & Electronics (-3.5%) and Petroleum, Chemical, Rubber & Plastic (-2.4%) sub-sectors



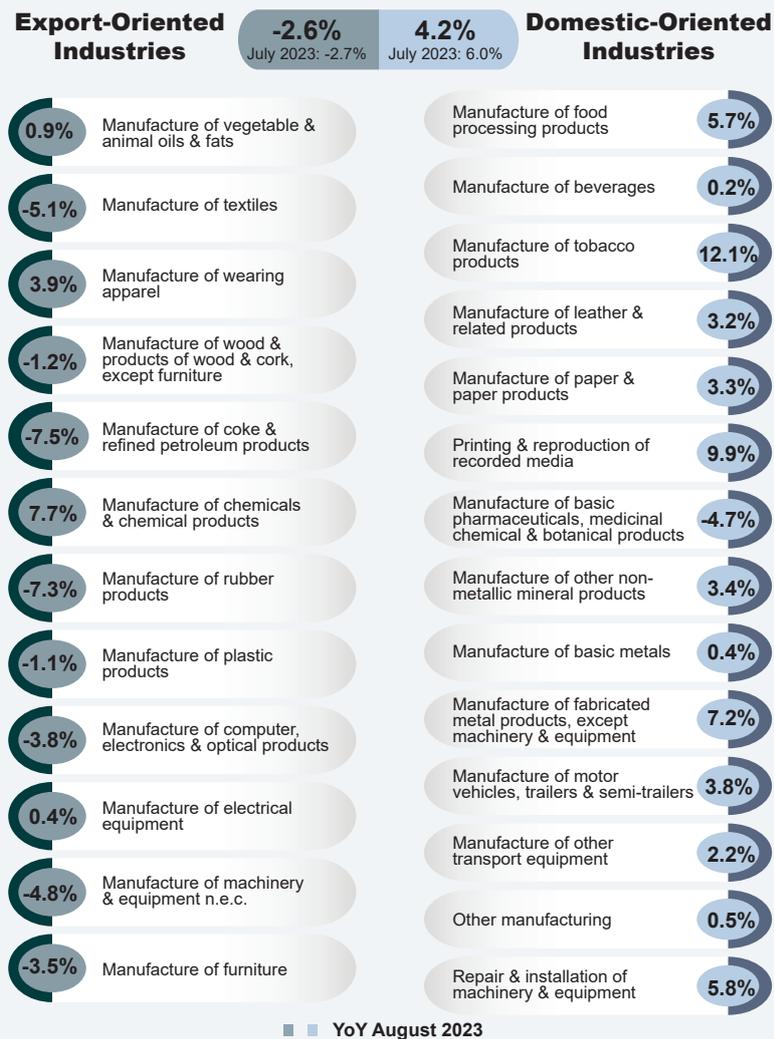
### Mining

The output in the Mining sector grew marginally by 0.1 per cent, propelled by a 2.6 per cent upward momentum in Natural Gas while Crude Oil & Condensate declined by 3.3 per cent



### Export and Domestic-Oriented Industries

The export-oriented industries declined by 2.6 per cent while the domestic-oriented industries continued to expand by 4.2 per cent



% YoY: Percentage change year-on-year  
% MoM: Percentage change month-on-month

Source: Index of Industrial Production Malaysia, August 2023, Department of Statistics Malaysia (DOSM)

# INDEKS PENGELUARAN PERINDUSTRIAN

## Ogos 2023

Jadual Ringkas Indeks Pengeluaran Perindustrian

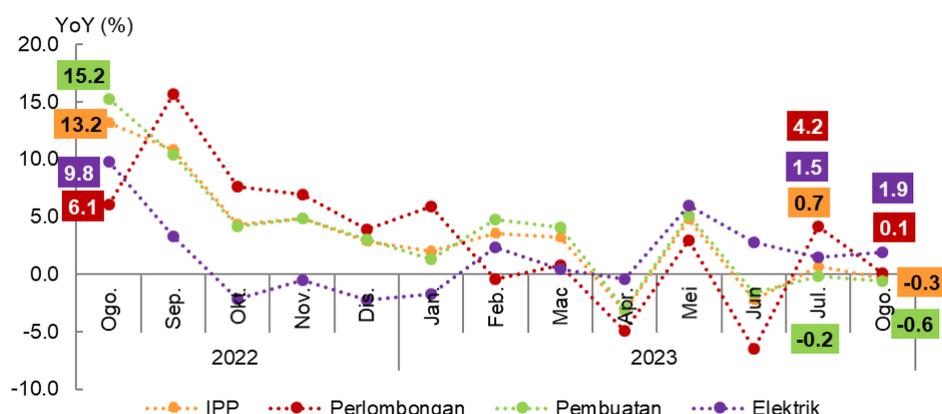
SEKTOR	INDEKS ASAL	PERTUMBUHAN <sup>[1]</sup> YoY (%)	INDEKS PM <sup>[2]</sup>	PERTUMBUHAN <sup>[3]</sup> MoM (%)
IPP	129.1	-0.3	132.2	1.7
	89.4	0.1	91.7	-6.4
	143.6	-0.6	146.0	4.0
	129.9	1.9	126.4	-0.7

“IPP menurun  
0.3% pada  
Ogos 2023”

### 1.0. Prestasi Ogos 2023

Indeks Pengeluaran Perindustrian (IPP) menurun **0.3 peratus** pada bulan Ogos 2023 berbanding bulan yang sama pada tahun sebelumnya. Kejatuhan IPP disebabkan terutamanya oleh penurunan marginal **0.6 peratus** dalam sektor Pembuatan. Sementara itu, Perlombongan dan Elektrik masing-masing meningkat **0.1 peratus** dan **1.9 peratus**. Data siri masa pertumbuhan tahun ke tahun bagi IPP dan indeks komponennya adalah seperti di Carta 1.

Carta 1: Indeks Pengeluaran Perindustrian - Pertumbuhan Tahun ke Tahun



Bagi terma pelarasan musim, IPP pada bulan Ogos 2023 kekal tumbuh **1.7 peratus** bagi dua bulan berturut-turut berbanding bulan sebelumnya. Pertumbuhan pada bulan Ogos 2023 disokong oleh peningkatan dalam indeks Pembuatan sebanyak **4.0 peratus**. Sementara itu, indeks Perlombongan dan Elektrik masing-masing menyusut **6.4 peratus** dan **0.7 peratus**.

**Nota :**

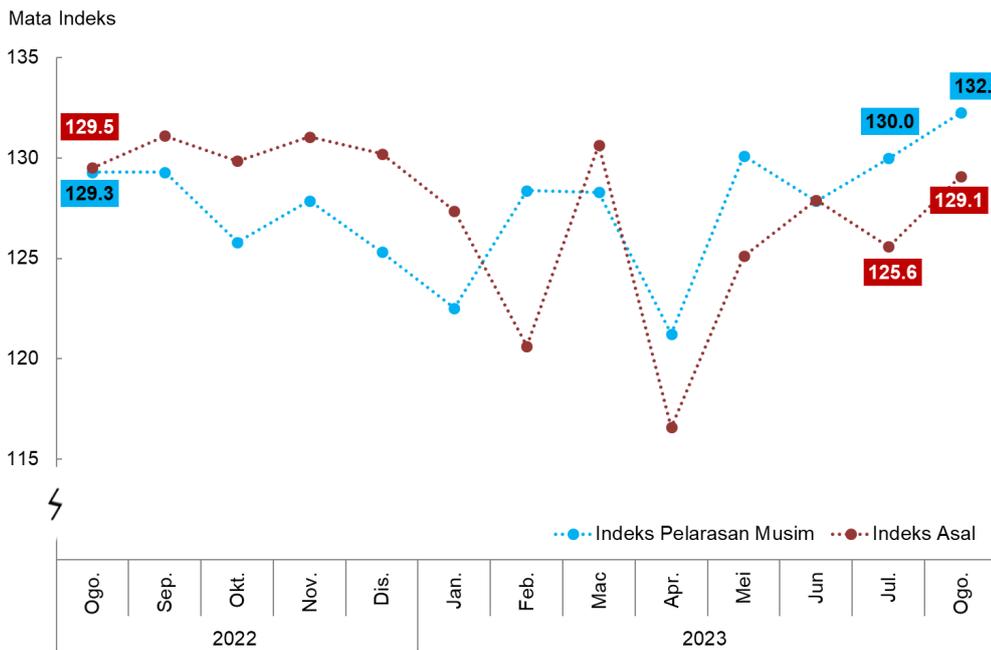
[1] Pertumbuhan Indeks Asal

[2] Pelarasan Musim

[3] Pertumbuhan Indeks Pelarasan Musim

Laporan ini boleh diperolehi daripada portal Jabatan Perangkaan Malaysia (<https://www.dosm.gov.my>) di bawah ruangan: Siaran Terkini. Data bagi bulan Ogos 2023 merupakan data sementara. Data ini akan dikemaskini berdasarkan data terkini yang diperolehi dan akan diterbitkan dalam penerbitan bulan September 2023.

**Carta 2: IPP - Indeks Asal dan Indeks Pelarasan Bermusim**

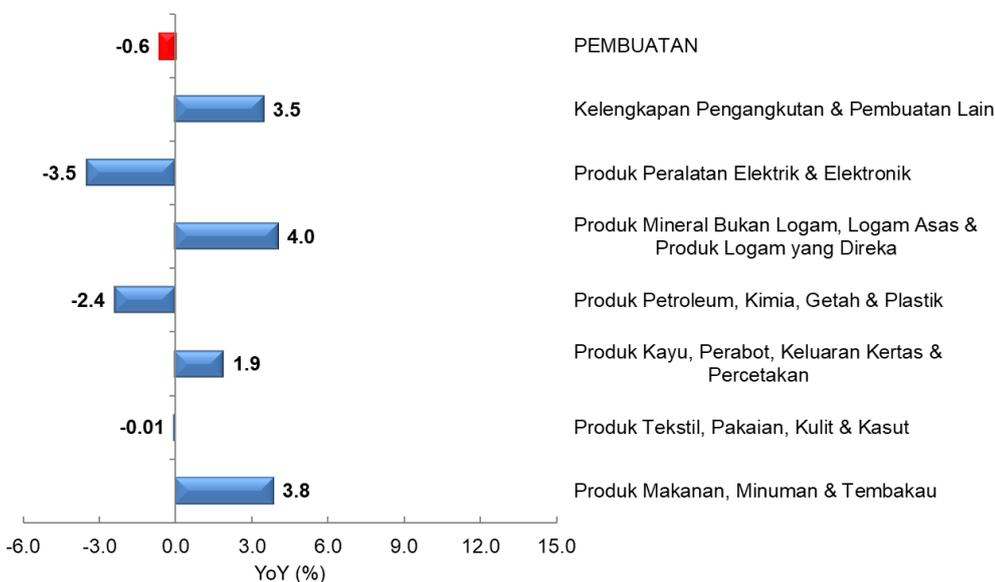


### 1.1. Prestasi Sektor Pembuatan

Output sektor Pembuatan merosot **0.6 peratus** tahun ke tahun pada bulan Ogos 2023 berbanding negatif 0.2 peratus yang dicatatkan pada bulan sebelumnya. Subsektor utama yang mempengaruhi kejatuhan sektor Pembuatan pada Ogos 2023 adalah Produk Peralatan Elektrik & Elektronik (-3.5%); Produk Petroleum, Kimia, Getah & Plastik (-2.4%); dan Produk Tekstil, Pakaian, Kulit & Kasut (-0.01%). Butiran terperinci seperti dipaparkan di Carta 3.

“ Sektor Pembuatan merosot **0.6%** pada bulan Ogos 2023 ”

**Carta 3: Indeks Pembuatan dan Prestasi Mengikut Subsektor - Peratus Perubahan Tahun ke Tahun**



“ Penurunan dalam sektor Pembuatan dipengaruhi terutamanya oleh **Produk Peralatan Elektrik & Elektronik** ”

## 1.2. Prestasi Sektor Perlombongan

Sektor Perlombongan tumbuh marginal **0.1 peratus** pada bulan Ogos 2023 berbanding tempoh yang sama pada tahun sebelumnya. Pertumbuhan tersebut dipacu oleh Gas Asli yang kembali meningkat kepada **2.6 peratus** manakala Minyak Mentah & Kondensat menurun **3.3 peratus**.

“ Sektor Perlombongan tumbuh marginal 0.1% sementara sektor Elektrik meningkat 1.9% ”

## 1.3. Prestasi Sektor Elektrik

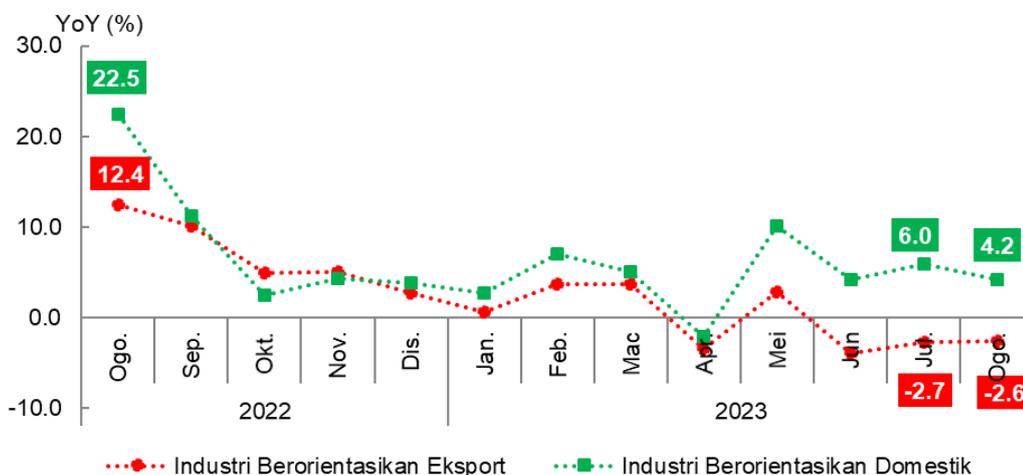
Output sektor Elektrik meningkat **1.9 peratus** pada Ogos 2023 berbanding bulan yang sama pada tahun sebelumnya.

## 1.4. Prestasi Industri Berorientasikan Eksport dan Domestik Sektor Pembuatan

Penyusutan sektor Pembuatan dipengaruhi oleh industri berorientasikan eksport yang menurun **2.6 peratus** (Carta 4). Penurunan ini dipengaruhi terutamanya oleh pembuatan kok & produk petroleum bertapis (-7.5%); pembuatan komputer, produk elektronik & optikal (-3.8%); dan pembuatan produk getah (-7.3%). Namun begitu, industri berorientasikan domestik terus berkembang walaupun pada kadar sederhana iaitu **4.2 peratus** berbanding **6.0 peratus** yang dicatatkan pada bulan sebelumnya. Peningkatan tersebut diterajui oleh Pembuatan produk logam yang direka, kecuali mesin & kelengkapan (7.2%); Pembuatan produk prosesan makanan (5.7%); dan pembuatan kenderaan bermotor, treler & semi treler (3.8%).

“ Industri berorientasikan eksport menurun 2.6% manakala, industri berorientasikan domestik terus berkembang 4.2% ”

**Carta 4: Industri Berorientasikan Eksport dan Domestik Sektor Pembuatan - Peratus Perubahan Tahun ke Tahun**



## Jadual Ringkas Indeks Pengeluaran Perindustrian Januari-Ogos 2023

SEKTOR	INDEKS JAN. - Ogos 2023	JAN. - Ogos 2022 YoY (%)	JAN. - Ogos 2023 YoY (%)
IPP	125.4	7.3	1.0
	93.1	-0.6	0.2
	137.3	9.6	1.2
	125.4	5.8	1.6

“ IPP meningkat 1.0% bagi tempoh Januari hingga Ogos 2023 ”

### 2.1. Prestasi Indeks Pengeluaran Perindustrian Januari - Ogos 2023

IPP bagi tempoh Januari hingga Ogos 2023 meningkat **1.0 peratus** berbanding dengan tempoh yang sama tahun sebelumnya. Prestasi tersebut disokong oleh indeks Pembuatan (**1.2%**); indeks Perlombongan (**0.2%**) dan indeks Elektrik (**1.6%**).

# INDUSTRIAL PRODUCTION INDEX

## AUGUST 2023

**Summary Table of Industrial Production Index**

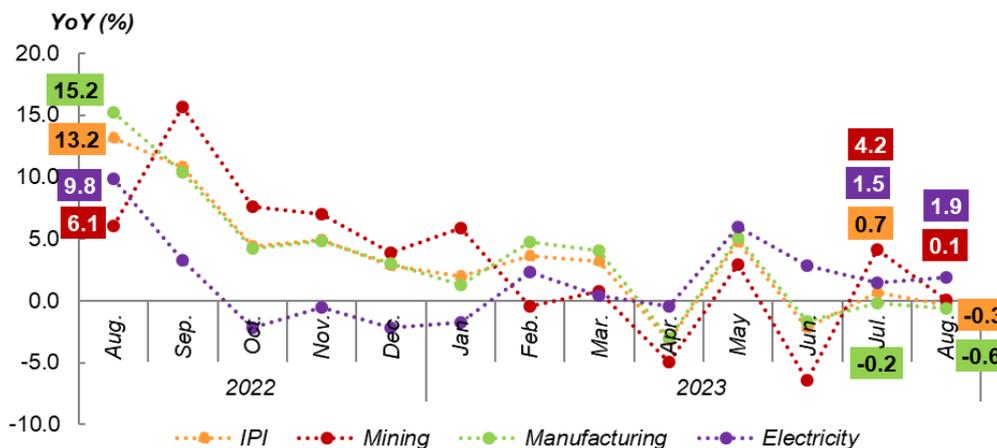
SECTOR	ORIGINAL INDEX	GROWTH <sup>[1]</sup> YoY (%)	INDEX SA <sup>[2]</sup>	GROWTH <sup>[3]</sup> MoM (%)
<b>IPI</b>	<b>129.1</b>	<b>-0.3</b>	<b>132.2</b>	<b>1.7</b>
	<b>89.4</b>	<b>0.1</b>	<b>91.7</b>	<b>-6.4</b>
	<b>143.6</b>	<b>-0.6</b>	<b>146.0</b>	<b>4.0</b>
	<b>129.9</b>	<b>1.9</b>	<b>126.4</b>	<b>-0.7</b>

“ IPI fell  
 0.3% in  
 August 2023 ”

### 1.0. Performance in August 2023

The Industrial Production Index (IPI) fell by **0.3 per cent** in August 2023 as compared to the same month in the previous year. The decline in the IPI was primarily attributed to a marginal decrease of **0.6 per cent** in the Manufacturing sector. Meanwhile, the Mining and Electricity sectors increased by **0.1 per cent** and **1.9 per cent**, respectively. The time series data of year-on-year growth for IPI and its component indices are shown in Chart 1.

**Chart 1: Industrial Production Index - Growth Year-on-Year**



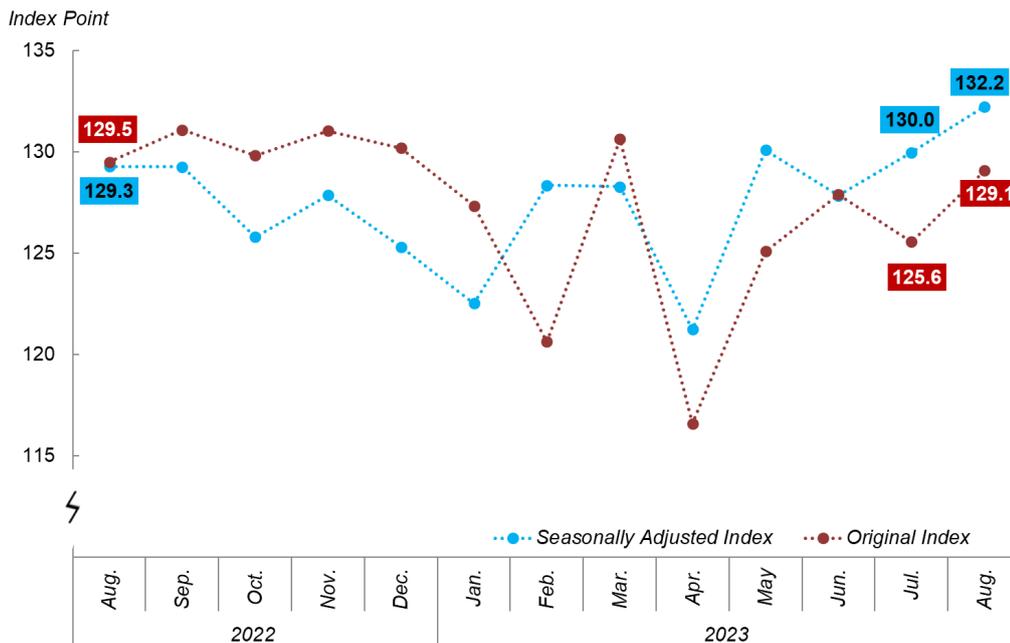
In seasonally adjusted terms, the IPI in August 2023 remained at **1.7 per cent** growth for two consecutive months as compared to the previous month. The growth in August 2023 was supported by the increase in Manufacturing index with **4.0 per cent**. Meanwhile, Mining and Electricity indices decreased by **6.4 per cent** and **0.7 per cent** respectively.

**Note :**

[1] Original Index Growth      [2] Seasonally Adjusted      [3] Seasonally Adjusted Growth

This report can be accessed through the web portal the Department of Statistics Malaysia (<https://www.dosm.gov.my>) under the section: Latest Releases. Data for August 2023 is provisional. The data will be updated based on the latest available figures and subsequently published in September 2023 publication.

**Chart 2: IPI - Original and Seasonally Adjusted Index**

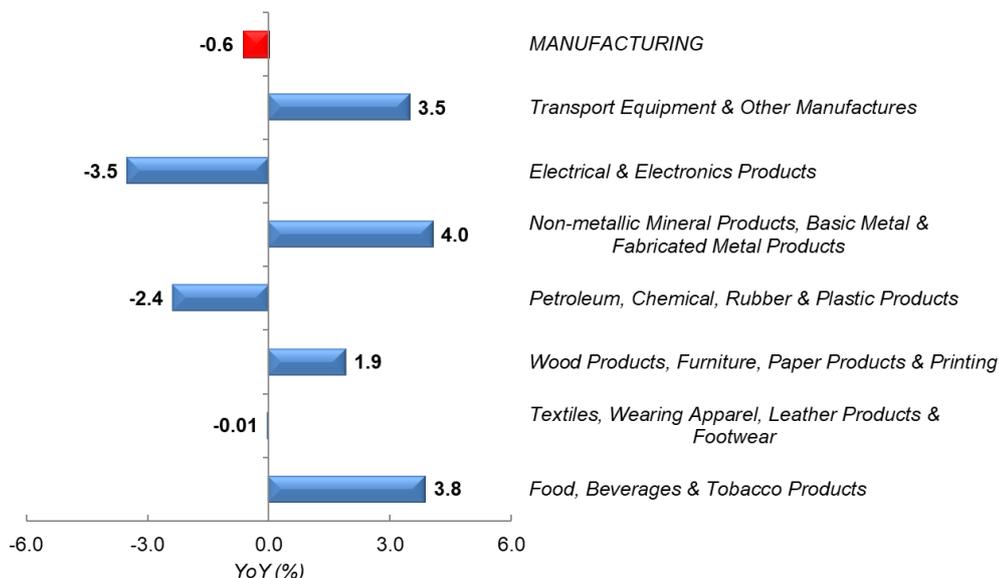


### 1.1. Performance of Manufacturing Sector

The Manufacturing sector output decreased by **0.6 per cent** year-on-year in August 2023 as against negative 0.2 per cent registered in the previous month. The main subsectors influenced to the decline in Manufacturing sector for August 2023 were **Electrical & Electronics Products (-3.5%)**; **Petroleum, Chemical, Rubber & Plastic Products (-2.4%)**; and **Textiles, Wearing Apparel, Leather Products & Footwear Products (-0.01%)**. The details are as depicted in Chart 3.

“Manufacturing sector decreased by **0.6%** in August 2023”

**Chart 3: Manufacturing Index and Performance by Subsectors - Percentage Change Year-on-Year**



“The decrease in Manufacturing sector was influenced primarily by the **Electrical & Electronics Products**”

## 1.2. Performance of Mining Sector

The Mining sector grew marginally by **0.1 per cent** in August 2023 as compared to the same period of the previous year. The growth was driven by Natural Gas which turned upward to **2.6 per cent**, while the Crude Oil & Condensate decreased by **3.3 per cent**.

“ Mining sector grew marginally 0.1% while Electricity sector rose by 1.9% ”

## 1.3. Performance of Electricity Sector

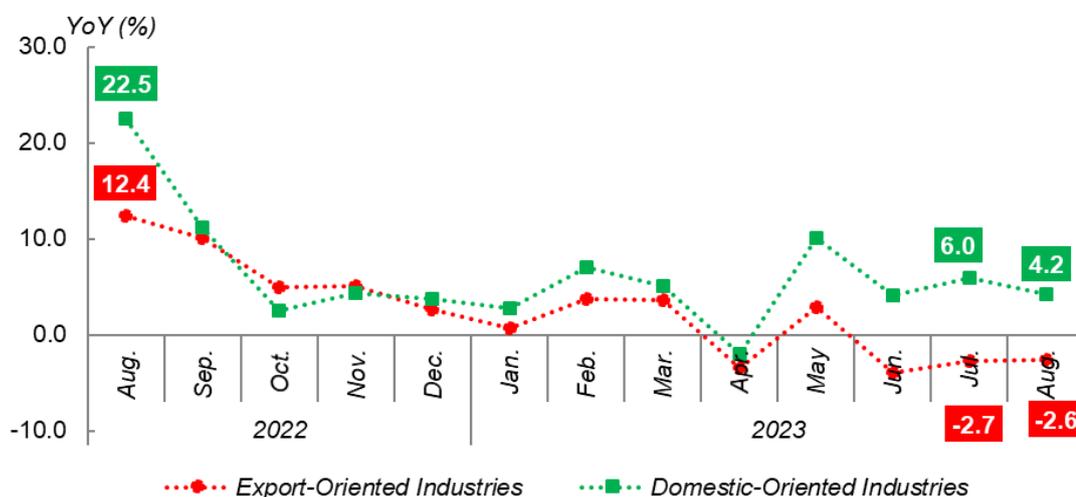
The Electricity sector output rose by **1.9 per cent** in August 2023 as compared to the same month of the preceding year.

## 1.4. Performance of Export and Domestic Oriented Industries in Manufacturing Sector

The contraction in the Manufacturing sector was influenced by the export-oriented industries which declined by **2.6 per cent** (Chart 4). The decrease was attributed by the manufacture of coke & refined petroleum products (-7.5%); manufacture of computer, electronics & optical products (-3.8%); and manufacture of rubber products (-7.3%). On the contrary, the domestic-oriented industries continued to expand, albeit at a moderate rate of **4.2 per cent** as compared to 6.0 per cent registered in the previous month. The increase was spearheaded by the Manufacture of fabricated metal products, except machinery & equipment (7.2%); Manufacture of food processing products (5.7%); and manufacture of motor vehicles, trailers & semi-trailers (3.8%).

“ The export-oriented industries declined by 2.6% while the domestic-oriented continued to expand by 4.2% ”

**Chart 4: Export and Domestic-Oriented Industries of the Manufacturing Sector - Percentage Change Year-on-Year**



### Summary Table of Industrial Production Index for January-August 2023

SECTOR	INDEX JAN. - AUGUST	JAN. - AUGUST 2022 YoY (%)	JAN. - AUGUST 2023 YoY (%)
<b>IPI</b>	<b>125.4</b>	<b>7.3</b>	<b>1.0</b>
	<b>93.1</b>	<b>-0.6</b>	<b>0.2</b>
	<b>137.3</b>	<b>9.6</b>	<b>1.2</b>
	<b>125.4</b>	<b>5.8</b>	<b>1.6</b>

“ IPI increased by 1.0% for the period of January to August 2023 ”

#### 2.1. Performance of Industrial Production Index January - August 2023

The IPI in the period of January to August 2023 increased by **1.0 per cent** as compared to the same period of the previous year. This performance was supported by the Manufacturing index (**1.2%**); Mining index (**0.2%**); and Electricity index (**1.6%**).



**JADUAL**

*TABLE*





**Jadual 1: Indeks Pengeluaran Perindustrian (IPP) dan Indeks Sektor (2015=100)**

*Table 1: Industrial Production Index (IPI) and Sector Indices (2015=100)*

Tahun <i>Year</i>	Tempoh <i>Period</i>	IPP <i>IPI</i>	Perlombongan <i>Mining</i>	Pembuatan <i>Manufacturing</i>	Elektrik <i>Electricity</i>
<b>Sektor/ Sectors</b>		<b>Jumlah/ Total</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Wajaran/ Weight 2015</b>		<b>100.00</b>	<b>25.14</b>	<b>68.25</b>	<b>6.61</b>
<b>2021</b>		118.3	91.8	128.1	118.6
<b>2022</b>		126.2	93.9	138.5	122.9
<b>2022</b>	<b>Q1</b>	122.6	94.7	133.2	119.4
	<b>Q2</b>	123.6	92.8	134.8	124.7
	<b>Q3</b>	128.4	91.0	142.5	125.6
	<b>Q4</b>	130.4	97.0	143.5	121.8
<b>2023</b>	<b>Q1</b>	126.2	96.7	137.7	119.7
	<b>Q2</b>	123.2	90.1	134.9	128.2
<b>2022</b>	<b>(Jan.-Aug.)</b>	124.1	92.8	135.7	123.4
<b>2023</b>	<b>(Jan.-Aug.)</b>	125.4	93.1	137.3	125.4
<b>2022</b>	<b>Jan.</b>	124.9	95.0	136.1	122.2
	<b>Feb.</b>	116.4	91.3	126.4	109.3
	<b>Mar.</b>	126.6	97.9	137.2	126.6
	<b>Apr.</b>	120.5	92.7	130.4	123.5
	<b>May</b>	119.4	92.1	128.8	126.9
	<b>Jun.</b>	130.8	93.6	145.2	123.8
	<b>Jul.</b>	124.7	90.8	136.9	127.6
	<b>Aug.</b>	129.5	89.4	144.5	127.4
	<b>Sep.</b>	131.1	92.8	146.1	121.8
	<b>Oct.</b>	129.8	94.5	143.4	124.2
	<b>Nov.</b>	131.1	97.8	144.4	120.0
	<b>Dec.</b>	130.2	98.8	142.6	121.1
<b>2023</b>	<b>Jan.</b>	127.4	100.5	137.9	120.1
	<b>Feb.</b>	120.6	90.9	132.4	111.9
	<b>Mar.</b>	130.6	98.6	142.8	127.2
	<b>Apr.</b>	116.6	88.1	126.5	123.0
	<b>May</b>	125.1	94.8	135.4	134.4
	<b>Jun.</b>	127.9	87.5	142.8	127.3
	<b>Jul.</b>	125.6	94.6	136.6	129.5
	<b>Aug.</b>	129.1	89.4	143.6	129.9

Jadual 1.1: Pertumbuhan Indeks Pengeluaran Perindustrian (IPP) dan Indeks Sektor

Table 1.1: Industrial Production Index (IPI) and Sector Indices Growth

Tahun Year	Tempoh Period	IPP/ IPI		Perombongan/ Mining	Pembuatan/ Manufacturing			Elektrik/ Electricity	
		% Perubahan tahun ke tahun	% Perubahan bulan ke bulan						
		change year- on-year	change month- on-month						
Sektor/ Sectors		Jumlah/ Total		B	C			D	
Wajaran/ Weight 2015		100.00		25.14	68.25			6.61	
2021		7.4		1.5		9.5		2.5	
2022		6.7		2.2		8.2		3.6	
2022	Q1	4.2		-2.5		6.3		2.0	
	Q2	6.7		-2.2		9.3		5.8	
	Q3	12.2		8.6		13.4		8.7	
	Q4	4.0		6.1		4.0		-1.7	
2023	Q1	2.9		2.1		3.4		0.3	
	Q2	-0.3		-2.8		0.1		2.8	
2022	(Jan.-Aug.)	7.3		-0.6		9.6		5.8	
2023	(Jan.-Aug.)	1.0		0.2		1.2		1.6	
2022	Jan.	4.0	-1.4	-5.9	-0.2	6.8	-1.7	5.7	-1.3
	Feb.	3.6	-6.7	-1.0	-3.8	5.2	-7.2	0.3	-10.5
	Mar.	4.9	8.7	-0.4	7.2	6.9	8.5	0.03	15.9
	Apr.	4.5	-4.8	-0.3	-5.3	6.2	-4.9	1.0	-2.5
	May	3.6	-0.9	-7.4	-0.6	6.9	-1.3	3.0	2.7
	Jun.	11.8	9.5	1.3	1.6	14.4	12.8	14.6	-2.5
	Jul.	12.7	-4.7	4.4	-3.0	14.9	-5.7	13.1	3.1
	Aug.	13.2	3.9	6.1	-1.6	15.2	5.6	9.8	-0.1
	Sep.	10.8	1.2	15.7	3.8	10.4	1.1	3.3	-4.5
	Oct.	4.4	-1.0	7.6	1.8	4.2	-1.8	-2.2	2.0
	Nov.	4.9	0.9	7.0	3.5	4.8	0.7	-0.5	-3.4
	Dec.	2.8	-0.6	3.9	1.1	3.0	-1.2	-2.2	0.9
2023	Jan.	2.0	-2.2	5.9	1.7	1.3	-3.3	-1.7	-0.8
	Feb.	3.6	-5.3	-0.5	-9.6	4.8	-4.0	2.3	-6.8
	Mar.	3.2	8.3	0.8	8.5	4.1	7.8	0.4	13.7
	Apr.	-3.2	-10.8	-4.9	-10.7	-3.0	-11.4	-0.4	-3.3
	May	4.8	7.3	2.9	7.6	5.1	7.0	5.9	9.3
	Jun.	-2.2	2.2	-6.4	-7.7	-1.6	5.5	2.8	-5.3
	Jul.	0.7	-1.8	4.2	8.0	-0.2	-4.3	1.5	1.8
	Aug.	-0.3	2.8	0.1	-5.4	-0.6	5.1	1.9	0.3

Jadual 1.2: Indeks Pengeluaran Perindustrian (IPP) dan Indeks Sektor (2015=100)-Indeks Asal & Indeks Pelarasan Musim

Table 1.2: Industrial Production Index (IPI) and Sector Indices (2015=100)-Original Index & Seasonally Adjusted Index

Tahun Year	Tempoh Period	IPP/ IPI			Perlombongan/ Mining		
		Indeks Asal	Indeks Pelarasan Musim (PM)	% Perubahan bulan ke bulan (PM)	Indeks Asal	Indeks Pelarasan Musim (PM)	% Perubahan bulan ke bulan (PM)
		<i>Original Index</i>	<i>Seasonally Adjusted Index (SA)</i>	<i>% Change month- on-month (SA)</i>	<i>Original Index</i>	<i>Seasonally Adjusted Index (SA)</i>	<i>% Change month- on-month (SA)</i>
Sektor/ Sectors		Jumlah/ Total			B		
Wajaran/Weight 2015		100.00			25.14		
2021	Jan.	120.0	115.3	0.0	100.9	93.0	0.7
	Feb.	112.4	119.8	4.0	92.3	93.7	0.8
	Mar.	120.6	118.4	-1.2	98.3	92.4	-1.4
	Apr.	115.3	119.5	0.9	92.9	93.9	1.6
	May	115.3	118.4	-0.9	99.4	96.4	2.7
	Jun.	116.9	116.8	-1.4	92.3	93.8	-2.7
	Jul.	110.6	114.1	-2.4	86.9	91.3	-2.8
	Aug.	114.5	114.0	-0.1	84.3	88.4	-3.1
	Sep.	118.3	116.9	2.6	80.2	86.7	-2.0
	Oct.	124.4	120.2	2.7	87.8	87.6	1.1
	Nov.	124.9	122.1	1.6	91.4	88.9	1.5
	Dec.	126.6	121.9	-0.2	95.1	90.0	1.3
2022	Jan.	124.9	120.2	-1.4	95.0	88.2	-2.0
	Feb.	116.4	124.2	3.3	91.3	92.9	5.3
	Mar.	126.6	124.4	0.1	97.9	92.5	-0.4
	Apr.	120.5	125.2	0.67	92.7	93.7	1.3
	May	119.4	123.8	-1.1	92.1	91.6	-2.2
	Jun.	130.8	130.8	5.7	93.6	95.9	4.6
	Jul.	124.7	128.7	-1.6	90.8	94.1	-1.8
	Aug.	129.5	129.3	0.4	89.4	95.7	1.7
	Sep.	131.1	129.3	0.0	92.8	99.6	4.0
	Oct.	129.8	125.8	-2.7	94.5	95.6	-4.0
	Nov.	131.1	127.9	1.6	97.8	94.5	-1.2
	Dec.	130.2	125.3	-2.0	98.8	93.7	-0.8
2023	Jan.	127.4	122.5	-2.2	100.5	93.3	-0.4
	Feb.	120.6	128.4	4.8	90.9	92.3	-1.1
	Mar.	130.6	128.3	-0.06	98.6	93.1	1.0
	Apr.	116.6	121.2	-5.5	88.1	89.0	-4.4
	May	125.1	130.1	7.3	94.8	94.3	5.9
	Jun.	127.9	127.9	-1.7	87.5	89.6	-5.0
	Jul.	125.6	130.0	1.7	94.6	98.0	9.3
	Aug.	129.1	132.2	1.7	89.4	91.7	-6.4

Jadual 1.2: Indeks Pengeluaran Perindustrian (IPP) dan Indeks Sektor (2015=100)-Indeks Asal & Indeks Pelarasan Musim (samb.)

Table 1.2: Industrial Production Index (IPI) and Sector Indices (2015=100)-Original Index & Seasonally Adjusted Index (cont.)

Tahun Year	Tempoh Period	Pembuatan/ Manufacturing			Elektrik/ Electricity		
		Indeks Asal	Indeks Pelarasan Musim (PM)	% Perubahan bulan ke bulan (PM)	Indeks Asal	Indeks Pelarasan Musim (PM)	% Perubahan bulan ke bulan (PM)
		<i>Original Index</i>	<i>Seasonally Adjusted Index (SA)</i>	<i>% Change month- on-month (SA)</i>	<i>Original Index</i>	<i>Seasonally Adjusted Index (SA)</i>	<i>% Change month- on-month (SA)</i>
<b>Sektor/ Sectors</b>		<b>C</b>			<b>D</b>		
<b>Wajaran/Weight 2015</b>		<b>68.25</b>			<b>6.61</b>		
<b>2021</b>	Jan.	127.5	123.9	0.1	115.6	113.4	-3.0
	Feb.	120.1	129.5	4.6	109.0	118.7	4.7
	Mar.	128.3	127.9	-1.3	126.6	122.0	2.7
	Apr.	122.8	129.2	1.0	122.3	120.5	-1.2
	May	120.4	126.8	-1.9	123.2	119.8	-0.6
	Jun.	126.9	126.0	-0.6	108.0	109.4	-8.7
	Jul.	119.1	121.4	-3.7	112.8	109.5	0.1
	Aug.	125.4	123.4	1.6	116.0	112.7	2.9
	Sep.	132.3	127.8	3.6	117.9	117.6	4.3
	Oct.	137.6	132.0	3.3	127.0	123.1	4.6
	Nov.	137.7	134.0	1.5	120.6	121.1	-1.6
	Dec.	138.5	133.8	-0.2	123.8	122.2	0.9
<b>2022</b>	Jan.	136.1	132.2	-1.2	122.2	121.0	-0.99
	Feb.	126.4	136.1	3.0	109.3	122.9	1.6
	Mar.	137.2	136.6	0.3	126.6	122.9	0.0
	Apr.	130.4	137.5	0.7	123.5	122.3	-0.4
	May	128.8	136.4	-0.8	126.9	123.3	0.8
	Jun.	145.2	144.1	5.6	123.8	126.0	2.2
	Jul.	136.9	140.3	-2.6	127.6	124.2	-1.4
	Aug.	144.5	142.0	1.2	127.4	124.1	-0.1
	Sep.	146.1	140.8	-0.8	121.8	122.2	-1.5
	Oct.	143.4	137.5	-2.3	124.2	121.7	-0.4
	Nov.	144.4	140.3	2.0	120.0	122.0	0.2
	Dec.	142.6	137.6	-1.9	121.1	120.7	-1.0
<b>2023</b>	Jan.	137.9	133.9	-2.7	120.1	118.6	-1.8
	Feb.	132.4	142.5	6.4	111.9	122.9	3.7
	Mar.	142.8	142.1	-0.3	127.2	123.6	0.6
	Apr.	126.5	133.5	-6.0	123.0	121.8	-1.5
	May	135.4	143.8	7.7	134.4	132.3	8.6
	Jun.	142.8	141.6	-1.5	127.3	129.9	-1.8
	Jul.	136.6	140.3	-0.9	129.5	127.3	-2.0
	Aug.	143.6	146.0	4.0	129.9	126.4	-0.7

Jadual 2: Indeks Perlombongan Peringkat Industri (2015=100)

Table 2: Mining Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pengekstrakan Petroleum Mentah dan Gas Asli		Pengekstrakan Minyak Petroleum Mentah & Kondensat		Pengeluaran Gas Hidrokarbon Mentah Bergas (Gas Asli)	
		<i>Extraction of Crude Petroleum and Natural Gas</i>		<i>Extraction of crude Petroleum Oils &amp; Condensates</i>		<i>Production of Crude Gaseous Hydrocarbon (Natural Gas)</i>	
		Kod/ Codes	06	06101		06201	
		Wajaran/Weight 2015	25.14	12.22		12.92	
2021		91.8	1.5	80.8	-5.2	102.3	7.1
2022		93.9	2.2	78.6	-2.7	108.3	5.9
2022	Q1	94.7	-2.5	78.3	-9.4	110.3	2.7
	Q2	92.8	-2.2	78.4	-6.4	106.3	0.9
	Q3	91.0	8.6	76.4	1.9	104.8	13.7
	Q4	97.0	6.1	81.3	4.4	111.9	7.3
2023	Q1	96.7	2.1	81.6	4.2	111.0	0.6
	Q2	90.1	-2.8	77.2	-1.6	102.4	-3.7
2022	(Jan.-Aug.)	92.8	-0.6	77.7	-6.2	107.1	3.6
2023	(Jan.-Aug.)	93.1	0.2	79.3	2.0	106.1	-0.9
2022	Jan.	95.0	-5.9	76.9	-15.3	112.0	1.4
	Feb.	91.3	-1.0	77.1	-4.8	104.8	1.8
	Mar.	97.9	-0.4	80.9	-7.5	114.0	5.1
	Apr.	92.7	-0.3	78.3	-2.8	106.3	1.6
	May	92.1	-7.4	77.7	-11.2	105.7	-4.4
	Jun.	93.6	1.3	79.3	-4.8	107.0	6.2
	Jul.	90.8	4.4	73.3	-5.5	107.3	12.0
	Aug.	89.4	6.1	78.5	4.5	99.6	7.2
	Sep.	92.8	15.7	77.4	7.1	107.3	22.3
	Oct.	94.5	7.6	79.1	4.6	109.0	9.7
	Nov.	97.8	7.0	80.6	4.6	114.0	8.6
	Dec.	98.8	3.9	84.2	4.2	112.6	3.7
2023	Jan.	100.5	5.9	83.0	8.0	117.1	4.5
	Feb.	90.9	-0.5	76.8	-0.3	104.2	-0.5
	Mar.	98.6	0.8	84.9	5.0	111.6	-2.1
	Apr.	88.1	-4.9	77.6	-0.9	98.0	-7.8
	May	94.8	2.9	78.2	0.6	110.5	4.5
	Jun.	87.5	-6.4	75.8	-4.5	98.6	-7.8
	Jul.	94.6	4.2	81.9	11.8	106.5	-0.8
	Aug.	89.4	0.1	75.9	-3.3	102.2	2.6

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan minyak sawit mentah		Pembuatan minyak sawit bertapis		Pembuatan minyak isirong	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of crude palm oil</i>		<i>Manufacture of refined palm oil</i>		<i>Manufacture of palm kernel oil</i>	
		Kod/ Codes	10401	10402	10403		
		Wajaran/Weight 2015	1.94	1.37	0.17		
2021		90.7	-5.4	106.5	-14.7	90.0	-7.0
2022		92.4	1.9	95.2	-10.6	92.1	2.3
2022	Q1	76.2	3.9	83.8	-8.6	77.4	5.8
	Q2	89.5	-5.1	86.3	-18.3	88.3	-5.8
	Q3	101.6	2.7	105.8	-6.9	98.7	0.7
	Q4	102.5	6.3	104.7	-8.8	104.2	9.2
2023	Q1	78.6	3.2	106.9	27.6	84.2	8.8
	Q2	83.4	-6.9	96.9	12.2	81.7	-7.4
2022	(Jan.-Aug.)	86.9	-0.2	88.7	-10.9	86.6	0.1
2023	(Jan.-Aug.)	86.0	-1.1	100.1	12.8	86.3	-0.4
2022	Jan.	75.4	11.3	87.1	-17.0	80.8	18.9
	Feb.	68.4	2.6	78.0	12.2	66.8	2.7
	Mar.	84.8	-0.9	86.4	-14.3	84.7	-2.2
	Apr.	87.9	-4.3	81.9	-17.9	88.6	-5.5
	May	87.8	-7.0	80.3	-7.9	83.5	-5.8
	Jun.	92.9	-3.8	96.7	-25.5	92.6	-6.0
	Jul.	94.6	3.3	96.4	-12.5	95.2	5.1
	Aug.	103.7	0.9	103.1	9.1	100.9	-0.2
	Sep.	106.4	3.9	117.9	-13.5	99.9	-2.1
	Oct.	109.0	5.1	122.0	-13.0	106.1	3.3
	Nov.	101.0	2.8	106.2	-5.6	101.7	7.4
	Dec.	97.3	11.7	85.9	-6.4	104.7	17.9
2023	Jan.	83.0	10.1	92.4	6.2	85.6	6.0
	Feb.	75.4	10.2	97.2	24.6	84.1	25.9
	Mar.	77.5	-8.7	131.1	51.7	83.1	-1.9
	Apr.	71.9	-18.1	89.4	9.1	69.1	-22.1
	May	91.2	3.9	105.5	31.3	90.8	8.7
	Jun.	87.0	-6.3	95.8	-1.0	85.2	-8.0
	Jul.	96.8	2.3	87.7	-9.0	90.8	-4.6
	Aug.	105.4	1.6	101.7	-1.4	101.6	0.7

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan minyak sayuran mentah dan bertapis		Pembuatan sebatian lemak masakan		Pembuatan aiskrim dan ais lain yang boleh dimakan seperti sorbet	
		<i>Manufacture of crude and refined vegetable oil</i>		<i>Manufacture of compound cooking fats</i>		<i>Manufacture of ice cream and other edible ice such as sorbet</i>	
		<b>Kod/ Codes</b>	<b>10404</b>	<b>10406</b>		<b>10501</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.04</b>	<b>0.18</b>		<b>0.03</b>	
2021		124.1	7.3	130.1	9.2	135.1	8.7
2022		113.6	-8.5	161.0	23.7	144.3	6.8
2022	Q1	120.7	7.8	141.2	26.1	151.7	9.0
	Q2	110.9	-3.6	129.9	11.2	124.7	9.2
	Q3	98.6	-24.7	174.0	26.0	140.8	3.1
	Q4	124.1	-10.5	198.9	29.5	159.9	6.2
2023	Q1	113.5	-6.0	173.2	22.7	137.6	-9.3
	Q2	84.2	-24.1	143.4	10.4	140.4	12.6
2022	(Jan.-Aug.)	111.7	-3.4	142.1	20.3	139.4	9.4
2023	(Jan.-Aug.)	93.8	-16.0	162.0	14.0	141.5	1.5
2022	Jan.	140.5	17.0	174.0	34.4	179.3	2.0
	Feb.	110.0	2.1	122.1	21.6	131.4	9.4
	Mar.	111.7	3.3	127.3	20.4	144.6	18.8
	Apr.	119.3	0.9	120.7	26.7	127.1	11.8
	May	99.0	-10.0	131.2	2.8	109.5	6.2
	Jun.	114.3	-2.1	137.9	7.9	137.6	9.3
	Jul.	94.4	-14.2	157.6	21.6	143.4	17.4
	Aug.	104.4	-22.2	166.0	28.6	142.2	3.6
	Sep.	97.0	-34.6	198.5	27.7	136.8	-9.0
	Oct.	116.8	-28.0	188.6	38.8	156.2	2.4
	Nov.	109.3	-3.0	183.0	18.1	159.9	3.9
	Dec.	146.2	3.8	225.2	32.4	163.6	12.8
2023	Jan.	144.1	2.5	193.9	11.4	139.4	-22.2
	Feb.	119.8	8.9	169.9	39.1	135.8	3.4
	Mar.	76.7	-31.4	155.9	22.5	137.7	-4.8
	Apr.	90.2	-24.4	141.4	17.2	120.6	-5.1
	May	78.5	-20.7	136.8	4.2	145.0	32.5
	Jun.	83.8	-26.7	152.0	10.2	155.6	13.1
	Jul.	71.0	-24.8	162.7	3.3	150.1	4.6
	Aug.	86.1	-17.5	183.1	10.3	147.8	3.9

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan susu pekat, tepung dan sejat		Pengilangan beras		Pengilangan tepung	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of condensed, powdered and evaporated milk</i>		<i>Rice milling</i>		<i>Flour milling</i>	
		<b>Kod/ Codes</b>	<b>10502</b>	<b>10611</b>		<b>10613</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.43</b>	<b>0.09</b>		<b>0.13</b>	
2021		142.5	6.8	136.8	3.4	139.0	19.9
2022		153.8	8.0	140.1	2.4	160.4	15.3
2022	Q1	134.2	4.3	147.0	15.7	134.5	-2.3
	Q2	164.9	9.1	142.4	0.8	149.1	13.3
	Q3	174.8	11.8	146.5	11.4	183.7	29.6
	Q4	141.4	5.8	124.6	-15.4	174.1	20.0
2023	Q1	123.7	-7.8	155.0	5.5	160.0	19.0
	Q2	150.4	-8.8	115.5	-18.9	155.8	4.5
2022	(Jan.-Aug.)	154.7	8.3	143.4	11.2	149.2	10.7
2023	(Jan.-Aug.)	149.9	-3.1	130.2	-9.2	163.6	9.7
2022	Jan.	150.0	3.5	137.7	15.9	136.5	1.0
	Feb.	110.2	-3.2	152.3	26.3	126.9	-2.6
	Mar.	142.2	11.9	150.8	6.6	140.1	-5.0
	Apr.	174.3	9.8	156.0	-0.7	149.5	-5.0
	May	168.9	16.0	122.2	-3.7	149.3	27.9
	Jun.	151.5	1.6	149.1	6.5	148.6	22.9
	Jul.	153.4	9.6	130.6	33.0	145.8	19.8
	Aug.	187.0	14.3	148.0	15.4	196.8	32.2
	Sep.	184.1	11.1	160.8	-4.2	208.5	34.7
	Oct.	158.2	32.4	135.4	-17.4	161.6	16.4
	Nov.	144.8	10.5	128.4	-1.2	176.3	23.2
	Dec.	121.2	-19.3	109.9	-25.7	184.5	20.2
2023	Jan.	121.8	-18.8	127.0	-7.8	168.1	23.1
	Feb.	120.3	9.1	151.8	-0.4	153.6	21.1
	Mar.	129.0	-9.3	186.2	23.5	158.4	13.0
	Apr.	135.1	-22.5	106.8	-31.6	165.1	10.4
	May	152.3	-9.8	123.7	1.3	153.3	2.7
	Jun.	163.9	8.2	116.2	-22.1	148.9	0.2
	Jul.	182.2	18.8	123.3	-5.5	153.1	5.0
	Aug.	194.5	4.0	106.5	-28.1	208.5	5.9

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Pembuatan biskut dan cookies		Pembuatan roti, kek dan produk bakeri lain		Pembuatan produk snek	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of biscuits and cookies</i>		<i>Manufacture of bread, cakes and other bakery products</i>		<i>Manufacture of snack products</i>	
		<b>Kod/ Codes</b>	<b>10711</b>	<b>10712</b>		<b>10713</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.13</b>	<b>0.36</b>		<b>0.09</b>	
2021		109.5	3.2	171.0	16.5	101.4	-14.7
2022		109.4	-0.1	183.0	7.0	94.3	-6.9
2022	Q1	113.1	6.5	158.4	-0.6	94.5	-9.0
	Q2	104.5	-6.2	189.5	2.0	93.5	-9.4
	Q3	104.4	2.5	213.9	15.0	94.5	-0.8
	Q4	115.7	-2.4	170.0	11.4	94.9	-8.0
2023	Q1	103.3	-8.7	177.4	12.0	89.8	-5.0
	Q2	93.7	-10.3	193.5	2.1	75.1	-19.7
2022	(Jan.-Aug.)	107.1	0.6	184.3	4.0	93.9	-6.2
2023	(Jan.-Aug.)	99.8	-6.8	196.5	6.6	80.6	-14.2
2022	Jan.	117.0	8.1	159.3	13.6	96.4	-7.3
	Feb.	111.6	-1.1	154.9	-4.3	94.2	-15.8
	Mar.	110.7	13.3	161.1	-8.6	92.9	-3.1
	Apr.	112.1	-7.8	181.1	-1.5	97.6	-12.7
	May	100.0	-6.5	184.9	1.2	87.6	-13.9
	Jun.	101.5	-3.9	202.5	6.2	95.3	-0.7
	Jul.	95.8	2.4	218.5	13.1	95.6	9.7
	Aug.	108.1	3.1	212.2	12.0	91.9	-1.4
	Sep.	109.3	2.2	211.1	20.3	95.8	-8.9
	Oct.	107.0	-6.2	172.6	12.4	94.1	-6.7
	Nov.	116.9	-5.6	178.5	17.2	96.4	-4.7
	Dec.	123.1	4.6	158.8	4.6	94.2	-12.3
2023	Jan.	95.3	-18.5	171.0	7.3	98.5	2.2
	Feb.	108.0	-3.2	192.0	24.0	76.4	-19.0
	Mar.	106.5	-3.8	169.2	5.1	94.7	1.9
	Apr.	91.1	-18.7	161.4	-10.9	77.7	-20.3
	May	90.1	-9.9	209.6	13.4	73.8	-15.8
	Jun.	100.0	-1.5	209.4	3.4	73.8	-22.5
	Jul.	106.0	10.6	241.6	10.6	75.7	-20.9
	Aug.	101.1	-6.5	217.9	2.7	74.0	-19.5

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Pembuatan gula		Pembuatan produk koko		Pembuatan coklat dan produk coklat	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of sugar</i>		<i>Manufacture of cocoa products</i>		<i>Manufacture of chocolate and chocolate products</i>	
Kod/ Codes		10721		10731		10732	
Wajaran/Weight 2015		0.12		0.17		0.11	
2021		149.6	22.1	128.5	3.6	136.8	7.4
2022		166.1	11.1	147.9	15.1	156.9	14.7
2022	Q1	122.3	2.3	141.7	13.5	147.7	12.4
	Q2	198.9	15.1	144.4	10.3	157.1	13.5
	Q3	195.3	15.3	152.0	23.0	163.5	23.1
	Q4	148.0	8.4	153.5	14.0	159.3	10.2
2023	Q1	115.1	-5.9	161.9	14.2	158.5	7.3
	Q2	184.4	-7.3	150.8	4.5	151.6	-3.4
2022	(Jan.-Aug.)	171.1	13.3	144.5	14.5	154.6	15.2
2023	(Jan.-Aug.)	160.0	-6.5	155.5	7.6	159.6	3.2
2022	Jan.	117.6	11.4	143.8	21.4	163.2	17.6
	Feb.	110.5	2.9	142.9	7.2	138.8	3.3
	Mar.	138.8	-4.8	138.5	12.7	141.1	16.6
	Apr.	166.2	-1.2	135.9	4.2	169.1	8.7
	May	218.5	19.9	148.8	11.1	145.7	20.1
	Jun.	212.1	26.5	148.4	15.7	156.3	13.2
	Jul.	221.6	31.7	151.0	32.1	157.1	13.5
	Aug.	183.3	12.5	146.4	14.3	165.4	31.2
	Sep.	181.0	2.3	158.6	23.5	168.0	25.3
	Oct.	153.4	12.0	143.9	12.0	152.7	5.6
	Nov.	169.1	26.2	150.6	9.7	156.7	5.7
	Dec.	121.4	-12.3	166.1	20.2	168.6	19.5
2023	Jan.	107.1	-9.0	160.6	11.7	154.0	-5.7
	Feb.	113.3	2.5	161.9	13.3	160.2	15.4
	Mar.	125.0	-9.9	163.3	17.9	161.2	14.2
	Apr.	140.0	-15.8	145.1	6.8	156.7	-7.3
	May	213.4	-2.3	154.6	3.8	147.6	1.3
	Jun.	199.8	-5.8	152.7	2.9	150.6	-3.6
	Jul.	214.3	-3.3	159.3	5.5	170.6	8.7
	Aug.	166.7	-9.1	146.6	0.1	175.7	6.2

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan konfeksi gula		Pembuatan bihun, mi dan produk lain yang berkaitan		Pembuatan makanan dan hidangan tersedia	
		<i>Manufacture of sugar confectionery</i>		<i>Manufacture of meehoon, noodles and other related product</i>		<i>Manufacture of prepared meals and dishes</i>	
		<b>Kod/ Codes</b>	<b>10733</b>	<b>10741</b>		<b>10750</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.05</b>	<b>0.09</b>		<b>0.17</b>	
<b>2021</b>		133.0	-0.9	121.3	-5.3	149.2	16.3
<b>2022</b>		143.7	8.0	116.1	-4.3	148.7	-0.4
<b>2022</b>	<b>Q1</b>	145.9	10.0	120.9	-8.4	177.3	19.4
	<b>Q2</b>	130.4	-3.5	108.4	-11.2	127.9	14.0
	<b>Q3</b>	147.6	18.2	115.2	-4.7	149.0	-14.7
	<b>Q4</b>	151.1	8.2	119.9	8.6	140.4	-13.0
<b>2023</b>	<b>Q1</b>	150.9	3.4	128.7	6.4	168.3	-5.1
	<b>Q2</b>	163.0	25.0	86.0	-20.7	150.3	17.5
<b>2022</b>	<b>(Jan.-Aug.)</b>	138.4	6.2	114.7	-8.4	152.3	7.2
<b>2023</b>	<b>(Jan.-Aug.)</b>	157.7	14.0	104.3	-9.1	154.8	1.7
<b>2022</b>	<b>Jan.</b>	150.9	6.3	132.4	-7.2	192.9	18.4
	<b>Feb.</b>	144.8	12.4	118.1	-12.2	175.5	13.6
	<b>Mar.</b>	142.1	11.8	112.2	-5.6	163.5	27.5
	<b>Apr.</b>	132.4	-12.3	121.2	-6.1	136.9	30.0
	<b>May</b>	119.7	1.1	95.8	-13.3	122.0	11.8
	<b>Jun.</b>	139.1	2.5	108.3	-14.4	125.0	2.1
	<b>Jul.</b>	132.7	16.7	111.0	-9.1	143.9	-23.6
	<b>Aug.</b>	145.2	15.7	118.7	0.6	158.4	-4.2
	<b>Sep.</b>	164.8	21.8	116.0	-5.2	144.8	-14.9
	<b>Oct.</b>	147.9	6.7	118.5	-0.1	149.6	-16.4
	<b>Nov.</b>	154.2	5.8	113.2	6.3	128.8	-12.1
	<b>Dec.</b>	151.1	12.4	127.9	20.8	142.7	-10.1
<b>2023</b>	<b>Jan.</b>	133.3	-11.7	127.1	-4.0	165.4	-14.2
	<b>Feb.</b>	159.8	10.4	133.9	13.4	162.8	-7.2
	<b>Mar.</b>	159.6	12.3	125.0	11.4	176.7	8.0
	<b>Apr.</b>	158.2	19.4	94.6	-21.9	163.4	19.4
	<b>May</b>	170.3	42.2	77.2	-19.5	155.0	27.0
	<b>Jun.</b>	160.7	15.5	86.2	-20.4	132.5	6.0
	<b>Jul.</b>	150.5	13.4	96.7	-12.9	151.2	5.1
	<b>Aug.</b>	169.5	16.8	93.4	-21.3	131.6	-16.9

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan kopi		Pembuatan sos dan bahan perasa		Pembuatan rempah ratus dan serbuk kari	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of coffee</i>		<i>Manufacture of sauces and condiments</i>		<i>Manufacture of spices and curry powder</i>	
Kod/ Codes		10791		10793		10794	
Wajaran/Weight 2015		0.15		0.13		0.07	
2021		123.8	-2.4	121.0	1.9	170.8	26.3
2022		126.6	2.2	110.6	-8.6	198.5	16.2
2022	Q1	134.6	25.6	127.8	1.7	184.5	14.0
	Q2	130.2	24.2	102.6	-12.7	201.4	21.5
	Q3	124.4	-14.3	102.5	-7.8	203.0	15.7
	Q4	117.0	-15.1	109.4	-15.5	204.9	13.7
2023	Q1	131.9	-2.0	132.0	3.2	220.3	19.4
	Q2	152.0	16.7	93.9	-8.5	224.0	11.2
2022	(Jan.-Aug.)	128.4	12.0	112.5	-5.6	194.8	17.8
2023	(Jan.-Aug.)	139.7	8.8	112.1	-0.3	225.8	15.9
2022	Jan.	134.1	24.4	138.9	8.3	184.9	15.4
	Feb.	124.0	15.9	118.3	1.0	180.9	10.9
	Mar.	145.8	36.4	126.2	-4.1	187.7	15.9
	Apr.	146.1	36.0	120.6	12.7	209.3	24.7
	May	129.9	14.6	83.8	-32.7	195.8	26.4
	Jun.	114.7	22.3	103.3	-14.7	199.2	14.0
	Jul.	116.1	-18.5	93.4	-10.7	194.5	14.0
	Aug.	116.7	-15.8	115.3	-3.1	206.0	21.3
	Sep.	140.5	-9.1	98.8	-10.2	208.5	12.3
	Oct.	155.9	5.5	107.0	-15.2	203.4	12.5
	Nov.	90.4	-24.1	98.6	-27.5	199.4	13.4
	Dec.	104.6	-28.6	122.5	-2.8	212.0	15.2
2023	Jan.	117.1	-12.7	142.2	2.3	207.0	12.0
	Feb.	132.4	6.8	138.1	16.7	219.3	21.2
	Mar.	146.1	0.2	115.6	-8.4	234.6	25.0
	Apr.	156.5	7.1	119.5	-0.9	216.0	3.2
	May	169.6	30.6	68.2	-18.6	208.0	6.2
	Jun.	129.8	13.1	93.9	-9.1	248.0	24.5
	Jul.	129.0	11.1	102.0	9.2	227.6	17.0
	Aug.	137.3	17.6	117.6	2.0	246.2	19.5

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan produk makanan lain t.t.t.l.		Penyulingan, pembersihan dan pencampuran spirit; wain & pembuatan minuman keras malt dan malt		Pembuatan minuman ringan	
		<i>Manufacture of other food products n.e.c.</i>		<i>Distilling, rectifying and blending of spirits; wines &amp; malt liquors and malt</i>		<i>Manufacture of soft drinks</i>	
		<b>Kod/ Codes</b>	<b>10799</b>	<b>11010, 11020 &amp; 11030</b>		<b>11041</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.15</b>	<b>0.21</b>		<b>0.38</b>	
2021		116.4	-6.7	107.7	7.7	125.3	11.3
2022		119.5	2.7	129.9	20.6	137.2	9.6
2022	Q1	118.0	-2.5	125.5	5.7	123.3	10.1
	Q2	118.2	8.6	129.1	54.5	142.2	11.9
	Q3	121.1	9.9	118.3	82.8	146.8	7.0
	Q4	120.8	-3.8	146.7	-10.3	136.6	9.5
2023	Q1	111.2	-5.8	118.0	-5.9	122.6	-0.6
	Q2	139.0	17.6	121.4	-6.0	152.7	7.3
2022	(Jan.-Aug.)	118.9	6.0	123.5	45.3	136.7	9.5
2023	(Jan.-Aug.)	128.3	7.9	114.4	-7.4	143.0	4.6
2022	Jan.	120.7	-3.2	136.48	15.0	126.7	7.6
	Feb.	115.1	-9.1	117.68	5.6	119.0	9.6
	Mar.	118.1	5.8	122.24	-3.0	124.2	13.0
	Apr.	115.7	7.3	140.72	2.1	158.6	15.2
	May	116.4	6.6	119.52	6.6	133.7	9.1
	Jun.	122.4	11.9	127.00	15917.8	134.4	11.0
	Jul.	116.0	13.5	119.99	3013.2	141.3	6.2
	Aug.	126.9	19.9	104.10	51.2	155.9	5.3
	Sep.	120.2	-1.8	130.73	7.7	143.3	9.8
	Oct.	116.1	-2.3	133.91	-18.1	138.9	12.6
	Nov.	123.5	-8.6	148.57	-4.6	136.0	12.5
	Dec.	122.7	0.2	157.70	-8.1	134.7	3.8
2023	Jan.	106.7	-11.6	143.44	5.1	118.2	-6.7
	Feb.	114.5	-0.5	106.48	-9.5	116.5	-2.1
	Mar.	112.2	-4.9	104.14	-14.8	133.0	7.1
	Apr.	119.9	3.6	133.22	-5.3	150.3	-5.2
	May	139.3	19.6	111.93	-6.3	161.2	20.6
	Jun.	157.9	29.0	118.93	-6.4	146.4	8.9
	Jul.	141.1	21.6	95.93	-20.1	154.0	9.0
	Aug.	134.8	6.2	100.74	-3.2	164.3	5.4

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan		Pembuatan produk tembakau		Penyediaan dan pemintalan gention tekstil	
		<i>Production of natural mineral waters and other bottled waters</i>		<i>Manufacture of tobacco products</i>		<i>Preparation and spinning of textile fibres</i>	
		Kod/ Codes	11042	12000		13110	
		Wajaran/Weight 2015	0.06	0.52		0.07	
2021		123.7	8.0	83.6	-12.4	112.0	20.0
2022		141.5	14.5	102.2	22.1	121.4	8.4
2022	Q1	135.0	0.9	127.6	4.1	116.6	15.7
	Q2	138.5	16.4	104.2	49.8	115.0	5.7
	Q3	146.4	27.8	71.4	234.5	116.0	-2.2
	Q4	146.2	14.9	105.4	-13.0	137.9	15.3
2023	Q1	144.7	7.1	147.4	15.5	146.8	25.9
	Q2	129.5	-6.5	125.2	20.2	112.8	-1.9
2022	(Jan.-Aug.)	135.7	11.2	104.1	43.3	115.7	8.4
2023	(Jan.-Aug.)	135.1	-0.4	121.9	17.1	131.1	13.3
2022	Jan.	121.4	-13.3	123.7	1.3	110.8	30.3
	Feb.	144.3	7.6	137.1	9.2	114.3	21.6
	Mar.	139.4	9.4	122.2	1.7	124.9	1.2
	Apr.	135.0	12.7	118.6	11.8	103.9	-1.9
	May	138.4	27.3	104.0	4.6	123.5	19.1
	Jun.	142.1	10.7	90.0	2765.0	117.7	0.6
	Jul.	123.5	28.0	67.8	2699.2	102.4	-5.1
	Aug.	141.6	16.8	69.5	2813.6	128.3	9.8
	Sep.	174.2	38.3	77.0	30.0	117.4	-10.4
	Oct.	153.6	16.5	85.1	-28.1	129.2	16.3
	Nov.	136.4	5.1	119.9	1.6	132.6	9.6
	Dec.	148.6	23.8	111.1	-12.4	151.8	19.7
2023	Jan.	127.7	5.1	147.9	19.5	142.9	29.1
	Feb.	168.7	16.9	142.4	3.9	154.1	34.8
	Mar.	137.6	-1.3	151.9	24.4	143.4	14.8
	Apr.	124.3	-7.9	126.2	6.4	117.8	13.4
	May	146.3	5.7	141.6	36.2	116.5	-5.6
	Jun.	118.0	-17.0	107.9	19.9	104.0	-11.6
	Jul.	153.9	24.7	79.4	17.2	136.0	32.8
	Aug.	104.5	-26.2	77.9	12.1	134.0	4.4

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Penenunan tekstil			Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik		Pembuatan pakaian
		<i>Weaving of textiles</i>			<i>Dyeing, bleaching, printing and finishing of yarns and fabrics</i>	<i>Manufacture of clothings</i>	
Kod/ Codes		13120			13132	14102	
Wajaran/Weight 2015		0.22			0.11	0.46	
2021		124.8	21.9	91.2	2.5	123.1	3.6
2022		135.7	8.7	85.0	-6.8	124.6	1.2
2022	Q1	151.7	12.4	86.9	-18.9	137.2	-0.4
	Q2	117.2	6.2	90.6	-8.4	96.6	3.7
	Q3	136.8	17.0	84.0	3.4	111.3	5.4
	Q4	137.1	0.0	78.7	1.3	153.3	-1.8
2023	Q1	135.9	-10.4	63.1	-27.4	139.4	1.6
	Q2	109.0	-7.0	65.7	-27.4	105.2	9.0
2022	(Jan.-Aug.)	132.0	12.5	87.6	-10.2	113.6	2.6
2023	(Jan.-Aug.)	116.8	-11.5	64.9	-26.0	119.6	5.3
2022	Jan.	153.4	15.2	72.2	-23.4	137.1	-1.1
	Feb.	149.3	4.3	86.0	-9.4	131.6	-2.6
	Mar.	152.4	18.5	102.6	-22.5	143.0	2.3
	Apr.	109.6	9.4	91.3	-16.2	106.0	1.8
	May	110.9	-0.1	85.9	-6.0	91.3	2.7
	Jun.	131.1	9.4	94.5	-1.8	92.5	7.1
	Jul.	127.1	34.3	84.6	-4.0	98.4	11.2
	Aug.	121.9	12.7	83.9	12.4	108.9	4.2
	Sep.	161.4	9.1	83.4	3.2	126.4	2.2
	Oct.	136.6	7.2	81.1	-1.0	141.4	-8.5
	Nov.	157.6	2.3	82.3	5.8	163.7	4.5
	Dec.	117.1	-9.9	72.6	-0.7	154.7	-1.5
2023	Jan.	135.1	-11.9	55.7	-22.8	132.3	-3.5
	Feb.	128.3	-14.1	57.7	-32.9	138.2	5.1
	Mar.	144.4	-5.2	76.0	-25.9	147.5	3.1
	Apr.	93.0	-15.2	65.5	-28.3	110.8	4.5
	May	112.2	1.2	64.4	-25.0	98.8	8.2
	Jun.	121.7	-7.2	67.2	-28.8	106.1	14.8
	Jul.	102.8	-19.2	61.3	-27.6	108.5	10.2
	Aug.	97.1	-20.3	71.2	-15.1	114.6	5.3

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan bagasi, beg tangan dan seumpamanya, pelana dan abah- abah		Pembuatan kasut kulit		Pembuatan kasut getah	
		<i>Manufacture of luggage, handbags and the like, saddlery and harness</i>		<i>Manufacture of leather footwear</i>		<i>Manufacture of rubber footwear</i>	
		Kod/ Codes	15120	15201	15203		
		Wajaran/Weight 2015	0.05	0.02	0.04		
2021		152.8	26.9	89.6	2.9	88.9	2.9
2022		204.0	33.6	93.7	4.6	108.4	22.0
2022	Q1	212.4	9.8	88.6	-13.2	109.2	7.0
	Q2	227.8	29.1	91.1	-2.9	104.4	18.9
	Q3	200.5	146.7	93.9	26.5	98.8	41.7
	Q4	175.5	9.7	101.2	14.8	121.4	26.4
2023	Q1	217.7	2.5	98.6	11.3	125.1	14.6
	Q2	252.8	11.0	79.7	-12.6	131.3	25.7
2022	(Jan.-Aug.)	215.0	36.6	90.4	-1.7	105.0	20.2
2023	(Jan.-Aug.)	229.9	6.9	86.2	-4.7	124.2	18.3
2022	Jan.	210.6	7.9	89.5	-8.2	107.8	9.4
	Feb.	199.6	10.8	86.6	-14.0	106.0	12.6
	Mar.	227.1	10.9	89.7	-16.8	113.7	0.3
	Apr.	220.2	2.0	89.4	-13.4	107.4	6.5
	May	247.0	16.2	91.1	-9.4	104.1	6.6
	Jun.	216.2	114.3	92.9	19.2	101.7	56.6
	Jul.	183.7	168.4	91.9	26.5	103.6	73.6
	Aug.	215.9	165.4	92.1	21.9	95.8	36.6
	Sep.	201.9	114.7	97.6	31.2	97.0	22.2
	Oct.	141.2	16.1	99.1	15.8	108.3	27.9
	Nov.	192.2	20.2	101.6	16.7	126.9	22.5
	Dec.	192.9	-2.7	103.0	12.0	128.9	29.1
2023	Jan.	210.9	0.1	96.5	7.8	126.8	17.6
	Feb.	203.1	1.8	97.0	12.0	119.8	12.9
	Mar.	239.2	5.3	102.3	14.0	128.9	13.3
	Apr.	243.5	10.6	81.7	-8.6	133.4	24.1
	May	296.5	20.0	83.2	-8.7	132.1	26.9
	Jun.	218.3	1.0	74.2	-20.1	128.3	26.1
	Jul.	200.5	9.1	81.3	-11.5	121.1	16.9
	Aug.	227.5	5.4	73.0	-20.7	103.7	8.3

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Pengilangan dan pengetaman kayu		Pembuatan kepingan venier dan papan lapis		Pembuatan papan partikel dan papan gentian	
		<i>Sawmilling and planing of wood</i>	<i>Manufacture of veneer sheets and plywood</i>	<i>Manufacture of particle board and fibreboard</i>			
Kod/ Codes		16100	16211	16212			
Wajaran/Weight 2015		0.35	0.57	0.25			
2021		124.5	13.6	93.0	13.7	129.1	6.4
2022		134.6	8.1	97.4	4.7	134.4	4.1
2022	Q1	138.8	9.0	106.2	-0.9	153.3	33.3
	Q2	114.5	25.7	124.5	3.7	91.3	13.0
	Q3	142.0	5.6	86.2	66.0	125.9	-3.6
	Q4	143.0	-1.3	72.7	-21.8	167.3	-12.0
2023	Q1	143.2	3.1	64.6	-39.1	177.6	15.9
	Q2	103.4	-9.7	110.6	-11.2	110.5	21.0
2022	(Jan.-Aug.)	130.0	15.9	108.6	11.6	119.9	17.3
2023	(Jan.-Aug.)	125.3	-3.6	85.2	-21.6	142.5	18.8
2022	Jan.	133.7	11.3	101.0	-0.2	180.4	34.1
	Feb.	142.9	5.5	100.0	1.4	140.7	27.4
	Mar.	139.7	10.7	117.5	-3.3	138.6	38.8
	Apr.	106.7	15.2	122.2	-9.8	100.9	47.5
	May	114.6	33.1	128.2	-1.1	87.7	5.2
	Jun.	122.2	29.3	123.2	29.5	85.3	-6.0
	Jul.	117.9	43.2	106.3	117.7	104.2	-7.4
	Aug.	162.5	1.5	70.3	46.7	121.3	3.2
	Sep.	145.5	-9.6	82.1	39.0	152.0	-6.0
	Oct.	138.9	1.7	76.3	2.4	159.8	-10.2
	Nov.	145.7	-8.0	74.3	-22.1	163.9	-15.1
	Dec.	144.5	3.3	67.4	-38.0	178.2	-10.6
2023	Jan.	132.7	-0.8	57.3	-43.3	158.4	-12.2
	Feb.	150.3	5.1	71.5	-28.4	182.7	29.8
	Mar.	146.5	4.9	64.9	-44.7	191.7	38.3
	Apr.	122.6	14.9	65.9	-46.1	133.0	31.8
	May	88.3	-23.0	143.6	12.0	99.8	13.8
	Jun.	99.3	-18.7	122.4	-0.6	98.8	15.8
	Jul.	127.4	8.0	83.8	-21.1	125.9	20.7
	Aug.	135.4	-16.7	71.8	2.2	149.7	23.4

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Pertukangan kayu untuk jurubina		Pembuatan bekas kayu		Pembuatan pulpa, kertas dan kertas tebal	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of builders' carpentry</i>		<i>Manufacture of wooden containers</i>		<i>Manufacture of pulp, paper and paperboard</i>	
		<b>Kod/ Codes</b>	<b>16221</b>	<b>16230</b>	<b>17010</b>		
		<b>Wajaran/Weight 2015</b>	<b>0.14</b>	<b>0.06</b>	<b>0.24</b>		
2021		81.5	-14.0	278.4	10.5	120.6	18.8
2022		80.0	-1.9	351.3	26.1	111.0	-8.0
2022	Q1	88.8	-5.2	347.6	19.4	118.8	0.9
	Q2	74.0	12.2	327.7	20.2	116.8	-5.7
	Q3	72.3	0.2	344.8	41.5	103.2	-15.0
	Q4	84.7	-10.1	385.0	25.7	105.1	-11.9
2023	Q1	75.6	-14.9	363.4	4.6	103.8	-12.6
	Q2	63.4	-14.3	327.8	0.0	103.4	-11.5
2022	(Jan.-Aug.)	78.4	1.6	333.9	24.0	114.6	-5.3
2023	(Jan.-Aug.)	68.8	-12.2	331.5	-0.7	103.7	-9.6
2022	Jan.	88.5	-10.6	351.1	26.2	121.6	7.9
	Feb.	91.7	-15.9	366.5	13.5	115.0	-1.1
	Mar.	86.3	18.0	325.0	19.3	119.8	-3.6
	Apr.	75.8	21.0	337.1	29.9	121.5	-4.8
	May	70.4	9.0	320.2	27.3	112.5	-7.8
	Jun.	75.8	7.4	325.7	6.1	116.4	-4.7
	Jul.	67.7	-0.9	315.6	50.1	102.7	-18.3
	Aug.	70.8	1.7	330.1	30.8	107.6	-8.8
	Sep.	78.4	-0.3	388.6	44.9	99.1	-17.6
	Oct.	84.3	-9.3	432.6	24.1	109.7	-4.1
	Nov.	85.8	-12.4	367.2	28.6	107.7	-12.3
	Dec.	84.1	-8.2	355.2	24.8	97.9	-18.9
2023	Jan.	82.4	-6.9	416.5	18.6	101.5	-16.6
	Feb.	73.8	-19.5	369.3	0.7	105.5	-8.2
	Mar.	70.5	-18.3	304.5	-6.3	104.5	-12.7
	Apr.	63.7	-15.9	414.1	22.8	100.1	-17.6
	May	57.8	-18.0	267.7	-16.4	104.3	-7.3
	Jun.	68.8	-9.3	301.5	-7.4	105.8	-9.1
	Jul.	64.5	-4.7	280.7	-11.1	103.0	0.2
	Aug.	69.0	-2.6	297.3	-9.9	104.6	-2.8

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal		Pembuatan sampul surat dan kad surat		Pembuatan kertas kegunaan rumah dan pembersih peribadi	
		<i>Manufacture of corrugated paper and paperboard and of containers of paper and paperboard</i>		<i>Manufacture of envelopes and letter-card</i>		<i>Manufacture of household and personal hygiene paper</i>	
		<b>Kod/ Codes</b>	<b>17020</b>	<b>17091</b>		<b>17092</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.45</b>	<b>0.04</b>		<b>0.22</b>	
<b>2021</b>		158.8	24.3	63.9	-19.0	115.3	2.7
<b>2022</b>		178.2	12.2	57.7	-9.8	127.3	10.4
<b>2022</b>	<b>Q1</b>	163.5	21.8	72.5	-16.0	123.4	-13.2
	<b>Q2</b>	156.2	8.1	52.9	-3.2	121.8	19.8
	<b>Q3</b>	191.0	15.2	48.7	-8.9	136.1	34.7
	<b>Q4</b>	202.0	5.9	56.6	-7.7	128.0	10.2
<b>2023</b>	<b>Q1</b>	175.6	7.4	61.2	-15.5	138.4	12.1
	<b>Q2</b>	149.5	-4.3	51.1	-3.6	143.6	17.9
<b>2022</b>	<b>(Jan.-Aug.)</b>	164.1	14.7	58.6	-10.6	124.9	8.0
<b>2023</b>	<b>(Jan.-Aug.)</b>	164.6	0.3	55.0	-6.1	137.6	10.1
<b>2022</b>	<b>Jan.</b>	176.2	40.1	68.8	-22.7	133.5	-13.2
	<b>Feb.</b>	154.4	17.9	74.7	-6.6	125.4	-15.3
	<b>Mar.</b>	160.0	9.5	73.9	-17.7	111.5	-10.8
	<b>Apr.</b>	153.3	5.5	66.7	11.7	119.1	17.4
	<b>May</b>	140.7	6.0	42.0	-11.7	114.5	22.1
	<b>Jun.</b>	174.4	12.4	50.1	-11.7	131.8	20.0
	<b>Jul.</b>	170.4	20.5	43.4	-12.8	134.1	28.7
	<b>Aug.</b>	183.2	10.0	49.4	-5.1	129.8	45.0
	<b>Sep.</b>	219.4	15.8	53.4	-9.0	144.5	32.0
	<b>Oct.</b>	180.5	-0.8	47.5	-24.0	120.9	20.0
	<b>Nov.</b>	211.1	9.2	65.1	4.6	137.3	10.2
	<b>Dec.</b>	214.4	8.8	57.2	-3.5	126.0	2.1
<b>2023</b>	<b>Jan.</b>	192.9	9.5	65.2	-5.3	131.4	-1.6
	<b>Feb.</b>	176.1	14.0	57.5	-23.0	136.2	8.7
	<b>Mar.</b>	157.7	-1.4	61.0	-17.4	147.6	32.4
	<b>Apr.</b>	147.1	-4.1	56.6	-15.0	141.7	19.0
	<b>May</b>	137.8	-2.1	47.4	12.9	141.5	23.6
	<b>Jun.</b>	163.6	-6.2	49.1	-2.1	147.5	11.9
	<b>Jul.</b>	153.9	-9.7	47.4	9.0	146.6	9.3
	<b>Aug.</b>	187.4	2.3	56.1	13.6	108.2	-16.6

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding		Percetakan		Aktiviti perkhidmatan berkaitan percetakan	
		<i>Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper</i>		<i>Printing</i>		<i>Service activities related to printing</i>	
		<b>Kod/ Codes</b>	<b>17093</b>	<b>18110</b>	<b>18120</b>		
		<b>Wajaran/Weight 2015</b>	<b>0.11</b>	<b>0.73</b>	<b>0.19</b>		
2021		133.3	3.1	115.1	5.7	122.6	-5.1
2022		142.7	7.1	121.6	5.6	136.3	11.2
2022	Q1	152.4	13.1	117.9	2.1	136.4	1.4
	Q2	125.9	13.5	114.6	11.6	139.5	12.5
	Q3	158.7	19.3	118.7	6.1	118.6	19.2
	Q4	133.8	-13.3	135.1	3.7	150.7	14.0
2023	Q1	145.7	-4.4	121.4	2.9	144.7	6.1
	Q2	148.1	17.6	124.3	8.5	140.6	0.8
2022	(Jan.-Aug.)	144.6	17.8	115.7	6.8	132.5	8.7
2023	(Jan.-Aug.)	160.8	11.2	124.0	7.2	135.8	2.5
2022	Jan.	146.2	14.5	124.5	2.0	139.9	-0.4
	Feb.	153.4	2.9	117.0	1.2	135.6	0.0
	Mar.	157.6	23.6	112.2	3.1	133.6	4.8
	Apr.	134.5	19.7	122.1	9.1	142.8	6.7
	May	117.1	12.9	116.1	10.0	136.6	4.5
	Jun.	126.2	8.2	105.6	16.6	139.2	29.4
	Jul.	164.7	34.5	107.4	8.2	114.4	18.2
	Aug.	157.0	28.1	120.5	6.9	117.6	14.9
	Sep.	154.5	0.3	128.3	3.6	123.9	24.8
	Oct.	139.3	-2.2	129.8	4.1	113.9	11.6
	Nov.	122.0	-26.3	131.9	7.3	155.9	13.9
	Dec.	139.9	-9.6	143.5	0.3	182.3	15.6
2023	Jan.	153.9	5.3	126.0	1.2	150.2	7.4
	Feb.	143.9	-6.2	124.5	6.4	135.3	-0.2
	Mar.	139.3	-11.6	113.6	1.2	148.6	11.2
	Apr.	147.5	9.7	125.9	3.2	147.5	3.3
	May	141.7	21.0	128.9	11.1	140.0	2.5
	Jun.	154.9	22.8	118.0	11.8	134.4	-3.4
	Jul.	203.8	23.7	115.6	7.6	126.9	11.0
	Aug.	201.4	28.3	139.3	15.6	103.6	-11.9

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan produk petroleum bertapis		Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat		Pembuatan kimia organik asas	
		<i>Manufacture of refined petroleum products</i>		<i>Manufacture of liquefied or compressed inorganic industrial or medical gases</i>		<i>Manufacture of basic organic chemicals</i>	
Kod/ Codes		19201		20111		20112	
Wajaran/Weight 2015		9.26		1.05		2.00	
2021		112.8	11.6	121.9	18.8	122.5	6.5
2022		119.8	6.2	144.4	18.5	122.7	0.2
2022	Q1	118.5	4.1	156.8	20.3	126.8	2.2
	Q2	110.4	4.3	129.1	25.1	123.8	4.7
	Q3	128.5	11.3	132.7	18.5	119.5	-1.8
	Q4	121.9	5.0	159.0	12.0	120.7	-4.1
2023	Q1	128.0	8.0	166.7	6.3	127.4	0.5
	Q2	108.8	-1.4	134.1	3.9	135.7	9.6
2022	(Jan.-Aug.)	118.5	5.6	140.2	21.4	123.8	1.7
2023	(Jan.-Aug.)	118.6	0.1	145.2	3.6	131.7	6.4
2022	Jan.	111.7	1.7	141.9	16.2	126.1	7.8
	Feb.	114.0	-1.7	164.2	24.2	127.4	3.5
	Mar.	129.8	12.1	164.3	20.1	126.8	-4.0
	Apr.	91.8	-1.2	125.0	39.3	114.1	6.7
	May	108.8	1.8	114.0	30.5	114.9	5.0
	Jun.	130.5	10.9	148.3	12.0	142.5	3.0
	Jul.	129.7	5.8	121.1	14.0	116.8	-3.9
	Aug.	131.4	13.1	142.5	21.7	121.3	-2.8
	Sep.	124.5	15.6	134.4	19.6	120.4	1.4
	Oct.	127.1	10.7	140.9	13.3	124.1	-2.1
	Nov.	122.6	1.3	161.9	19.8	112.6	-5.8
	Dec.	116.1	3.2	174.2	4.6	125.5	-4.4
2023	Jan.	124.1	11.0	148.2	4.5	124.4	-1.4
	Feb.	121.6	6.6	168.0	2.3	127.1	-0.2
	Mar.	138.4	6.6	184.0	12.0	130.7	3.1
	Apr.	93.6	2.0	149.2	19.3	118.2	3.6
	May	116.0	6.6	119.4	4.7	123.7	7.6
	Jun.	116.8	-10.5	133.9	-9.7	165.3	16.1
	Jul.	116.9	-9.9	120.3	-0.6	120.5	3.1
	Aug.	121.8	-7.3	138.3	-3.0	143.7	18.5

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan sebatian bukan organik		Pembuatan baja		Pembuatan plastik dalam bentuk primer	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of inorganic compounds</i>		<i>Manufacture of fertilizers</i>		<i>Manufacture of plastics in primary forms</i>	
Kod/ Codes		20113		20121		20131	
Wajaran/Weight 2015		0.29		0.38		1.11	
2021		137.2	7.3	131.9	15.1	110.1	10.4
2022		137.7	0.3	152.5	15.6	110.4	0.2
2022	Q1	137.1	2.0	118.4	-8.1	112.1	-4.4
	Q2	141.3	3.1	139.3	6.6	108.4	6.0
	Q3	138.0	0.1	173.1	24.6	118.7	7.5
	Q4	134.2	-3.7	179.3	38.6	102.3	-7.4
2023	Q1	141.1	2.9	134.9	14.0	112.0	-0.1
	Q2	148.7	5.2	131.2	-5.8	112.4	3.6
2022	(Jan.-Aug.)	139.7	2.7	138.1	5.2	113.2	3.2
2023	(Jan.-Aug.)	146.3	4.7	138.5	0.3	120.9	6.8
2022	Jan.	141.9	6.4	107.9	-15.2	112.8	5.1
	Feb.	131.5	-0.8	122.1	-1.3	112.5	-5.0
	Mar.	137.9	0.3	125.3	-7.7	110.9	-12.0
	Apr.	142.7	7.3	160.0	26.7	101.8	-2.5
	May	138.9	2.4	116.0	3.2	104.2	12.4
	Jun.	142.3	-0.1	141.8	-7.4	119.2	8.7
	Jul.	137.7	2.3	162.0	19.8	118.8	12.3
	Aug.	144.5	4.3	170.1	23.9	124.9	11.0
	Sep.	131.9	-6.1	187.1	29.8	112.5	-0.4
	Oct.	142.6	0.2	184.6	29.8	98.1	-15.7
	Nov.	128.9	-6.5	184.2	50.1	99.6	-1.4
	Dec.	131.2	-5.0	169.1	37.3	109.1	-4.3
2023	Jan.	135.6	-4.5	147.9	37.1	104.6	-7.3
	Feb.	138.8	5.5	126.2	3.4	115.8	2.9
	Mar.	149.0	8.0	130.7	4.4	115.5	4.2
	Apr.	141.0	-1.2	121.6	-24.0	99.2	-2.6
	May	152.1	9.5	123.9	6.8	104.1	-0.1
	Jun.	152.9	7.5	148.1	4.5	133.8	12.2
	Jul.	149.7	8.7	153.0	-5.5	152.6	28.4
	Aug.	151.2	4.7	156.7	-7.9	141.4	13.2

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan racun perosak dan produk agrokimia lain		Pembuatan cat, varnis dan penyadur dan mastik		Pembuatan dakwat cetak	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		<i>Manufacture of pesticides and other agrochemical products</i>		<i>Manufacture of paints, varnishes and similar coatings ink and mastics</i>		<i>Manufacture of printing ink</i>	
		<b>Kod/ Codes</b>	<b>20210</b>	<b>20221</b>		<b>20222</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.14</b>	<b>0.33</b>		<b>0.10</b>	
<b>2021</b>		83.7	-22.5	140.9	32.3	83.6	-24.4
<b>2022</b>		68.2	-18.5	141.0	0.1	68.4	-18.2
<b>2022</b>	<b>Q1</b>	75.7	-11.0	139.3	8.8	75.7	4.6
	<b>Q2</b>	71.5	-22.4	131.3	-1.9	66.2	-19.9
	<b>Q3</b>	55.2	-27.6	149.5	-2.4	66.2	-31.3
	<b>Q4</b>	70.5	-13.5	144.2	-2.9	65.4	-21.2
<b>2023</b>	<b>Q1</b>	66.1	-12.6	149.3	7.2	65.9	-12.9
	<b>Q2</b>	82.3	15.1	142.1	8.3	38.2	-42.3
<b>2022</b>	<b>(Jan.-Aug.)</b>	68.8	-19.7	135.6	1.3	69.7	-15.3
<b>2023</b>	<b>(Jan.-Aug.)</b>	71.5	3.9	150.0	10.6	50.2	-28.0
<b>2022</b>	<b>Jan.</b>	79.2	-6.6	147.5	12.3	88.1	19.2
	<b>Feb.</b>	72.6	-12.6	127.1	2.3	61.9	-14.5
	<b>Mar.</b>	75.2	-13.8	143.2	11.5	77.0	8.8
	<b>Apr.</b>	75.1	-30.5	132.4	2.2	60.9	-13.0
	<b>May</b>	67.4	-16.3	126.0	-2.4	73.2	-11.2
	<b>Jun.</b>	71.9	-17.8	135.4	-5.3	64.4	-32.5
	<b>Jul.</b>	50.2	-32.8	131.9	4.2	59.6	-34.2
	<b>Aug.</b>	58.8	-26.0	141.2	-11.3	72.4	-29.3
	<b>Sep.</b>	56.5	-24.1	175.4	0.9	66.7	-30.7
	<b>Oct.</b>	73.5	-5.2	138.6	-11.1	68.2	-12.0
	<b>Nov.</b>	69.8	-13.4	149.5	5.0	65.8	-16.0
	<b>Dec.</b>	68.2	-20.9	144.4	-1.9	62.2	-33.3
<b>2023</b>	<b>Jan.</b>	67.5	-14.8	139.8	-5.2	88.8	0.8
	<b>Feb.</b>	65.1	-10.4	147.9	16.3	58.3	-5.8
	<b>Mar.</b>	65.8	-12.4	160.2	11.9	50.6	-34.3
	<b>Apr.</b>	70.2	-6.6	129.6	-2.1	52.3	-14.2
	<b>May</b>	90.4	34.1	153.4	21.7	23.6	-67.8
	<b>Jun.</b>	86.3	20.0	143.3	5.8	38.7	-39.9
	<b>Jul.</b>	59.7	18.9	154.4	17.0	41.7	-30.0
	<b>Aug.</b>	67.1	14.2	171.2	21.2	47.2	-34.8

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan sabun dan bahan pencuci, penyediaan membersih dan mengilat		Pembuatan pewangi dan penyediaan dandanan diri		Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials	
		<i>Manufacture of soap and detergents, cleaning and polishing preparations</i>		<i>Manufacture of perfumes and toilet preparations</i>		<i>Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials</i>	
	Kod/ Codes	20231		20232		20291	
	Wajaran/Weight 2015	0.23		0.15		0.01	
2021		93.7	-0.5	98.2	7.4	209.4	52.5
2022		92.5	-1.2	92.2	-6.1	240.7	15.0
2022	Q1	99.3	11.6	95.8	12.9	234.3	24.7
	Q2	84.7	-1.8	92.9	-7.8	237.5	14.1
	Q3	98.2	2.3	89.2	-13.9	243.2	6.6
	Q4	87.7	-15.1	91.0	-12.1	247.8	16.3
2023	Q1	80.8	-18.6	107.0	11.7	252.6	7.8
	Q2	85.3	0.7	105.1	13.2	257.9	8.6
2022	(Jan.-Aug.)	93.6	5.5	92.7	-2.7	237.6	16.0
2023	(Jan.-Aug.)	89.2	-4.7	105.8	14.1	257.4	8.3
2022	Jan.	96.5	16.9	89.7	18.2	231.1	26.9
	Feb.	98.0	9.0	93.5	12.2	234.4	24.9
	Mar.	103.5	9.5	104.3	9.4	237.5	22.4
	Apr.	81.4	-1.6	95.9	2.2	235.7	16.4
	May	81.6	0.2	90.8	-8.9	238.6	14.9
	Jun.	91.2	-3.7	91.9	-15.3	238.3	11.1
	Jul.	90.9	0.9	89.5	-10.8	240.6	8.7
	Aug.	105.8	12.3	86.1	-18.2	244.6	7.2
	Sep.	97.9	-5.6	92.1	-12.6	244.5	3.9
	Oct.	93.7	-14.5	93.0	-20.4	246.1	12.6
	Nov.	83.4	-14.1	88.2	-1.9	247.7	28.3
	Dec.	86.0	-16.8	91.9	-11.7	249.7	9.7
2023	Jan.	80.4	-16.6	93.8	4.6	251.4	8.8
	Feb.	79.6	-18.7	109.4	17.0	252.5	7.7
	Mar.	82.4	-20.3	117.7	12.9	254.0	6.9
	Apr.	66.3	-18.5	96.9	1.1	255.9	8.6
	May	90.4	10.8	107.7	18.6	259.1	8.6
	Jun.	99.3	8.9	110.8	20.6	258.8	8.6
	Jul.	101.6	11.7	111.9	25.0	261.3	8.6
	Aug.	113.8	7.6	97.9	13.7	266.1	8.8

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan produk kimia lain t.t.t.l.		Pembuatan bahan aktif ubat- ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan		Pembuatan tayar getah untuk kendaraan	
		<i>Manufacture of other chemical products n.e.c.</i>		<i>Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments</i>		<i>Manufacture of rubber tyres for vehicles</i>	
		<b>Kod/ Codes</b>	<b>20299</b>	<b>21001</b>		<b>22111</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.43</b>	<b>0.30</b>		<b>0.17</b>	
2021		123.1	3.5	164.8	18.8	122.9	17.1
2022		126.2	2.5	177.8	7.9	113.8	-7.4
2022	Q1	123.0	1.5	159.0	11.8	125.6	2.4
	Q2	126.8	2.4	168.5	5.5	116.6	-13.9
	Q3	129.1	3.8	198.9	8.6	112.5	6.0
	Q4	125.9	2.2	184.9	6.2	100.3	-21.2
2023	Q1	121.1	-1.6	172.5	8.5	109.3	-13.0
	Q2	117.8	-7.2	169.1	0.3	100.1	-14.1
2022	(Jan.-Aug.)	126.0	2.7	171.5	9.1	120.3	-2.6
2023	(Jan.-Aug.)	120.9	-4.1	173.5	1.2	102.2	-15.1
2022	Jan.	124.8	-0.1	151.6	21.6	125.0	11.6
	Feb.	120.3	-1.6	158.9	7.7	122.3	3.8
	Mar.	123.9	6.3	166.4	7.6	129.4	-6.2
	Apr.	128.7	6.3	164.8	6.4	124.9	-14.2
	May	124.6	3.7	159.5	3.9	105.8	-8.9
	Jun.	127.3	-2.3	181.3	6.0	119.2	-17.7
	Jul.	130.5	6.4	191.9	11.9	121.5	-1.9
	Aug.	128.1	3.1	197.8	9.5	114.7	27.1
	Sep.	128.8	2.0	206.9	4.8	101.5	-2.9
	Oct.	127.2	5.9	196.7	5.2	110.9	-14.1
	Nov.	122.0	-3.1	171.4	5.6	96.0	-27.7
	Dec.	128.4	4.1	186.5	7.8	94.0	-21.7
2023	Jan.	128.3	2.8	162.5	7.2	104.9	-16.1
	Feb.	125.4	4.2	177.2	11.5	106.6	-12.8
	Mar.	109.5	-11.6	177.9	6.9	116.2	-10.2
	Apr.	116.0	-9.9	172.2	4.5	94.9	-24.0
	May	115.8	-7.1	167.4	4.9	111.4	5.3
	Jun.	121.6	-4.5	167.6	-7.5	94.2	-21.0
	Jul.	130.2	-0.2	180.6	-5.9	100.6	-17.2
	Aug.	120.1	-6.2	182.6	-7.7	89.0	-22.4

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup		Pembuatan sarung tangan getah		Pengilangan semula getah dan prosesan susu getah	
		<i>Manufacture of interchangeable tyre treads and retreading rubber tyres</i>		<i>Manufacture of rubber gloves</i>		<i>Rubber remilling and latex processing</i>	
		<b>Kod/ Codes</b>	<b>22112</b>	<b>22192</b>		<b>22193</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.04</b>	<b>1.16</b>		<b>0.24</b>	
2021		112.1	-14.0	306.9	32.1	131.1	9.3
2022		118.2	5.5	227.9	-25.8	139.5	6.4
2022	Q1	113.9	7.4	237.2	-28.2	119.8	-8.1
	Q2	109.3	6.6	249.3	-31.8	124.2	2.1
	Q3	132.1	18.5	225.3	-23.1	168.4	24.6
	Q4	117.6	-8.2	199.6	-16.4	145.6	6.1
2023	Q1	124.8	9.5	215.2	-9.3	110.8	-7.5
	Q2	101.2	-7.3	215.3	-13.6	108.3	-12.9
2022	(Jan.-Aug.)	115.6	9.9	240.8	-28.8	132.5	4.5
2023	(Jan.-Aug.)	112.4	-2.8	215.1	-10.7	121.4	-8.3
2022	Jan.	102.0	-3.0	232.9	-27.1	115.4	-10.2
	Feb.	117.9	16.9	208.9	-27.6	114.7	-4.8
	Mar.	121.9	8.5	269.7	-29.7	129.2	-8.9
	Apr.	114.7	3.7	272.9	-26.1	118.8	-5.0
	May	103.0	-4.7	235.6	-33.0	124.0	5.4
	Jun.	110.1	24.0	239.5	-36.4	129.9	6.1
	Jul.	121.7	21.2	236.3	-27.0	141.2	19.0
	Aug.	133.8	15.7	231.0	-21.6	186.6	34.1
	Sep.	140.8	18.9	208.6	-19.8	177.3	20.1
	Oct.	116.5	-15.7	196.5	-21.0	174.8	26.6
	Nov.	113.5	-8.4	189.5	-14.7	126.2	-6.0
	Dec.	122.9	0.3	212.9	-13.4	135.8	-2.5
2023	Jan.	115.4	13.1	206.9	-11.2	114.4	-0.9
	Feb.	113.7	-3.5	189.0	-9.5	106.9	-6.8
	Mar.	145.2	19.2	249.8	-7.4	111.1	-13.9
	Apr.	105.2	-8.3	231.0	-15.4	92.9	-21.8
	May	91.4	-11.2	206.3	-12.4	104.3	-15.8
	Jun.	107.1	-2.7	208.7	-12.8	127.6	-1.8
	Jul.	107.6	-11.6	212.5	-10.1	143.1	1.3
	Aug.	113.3	-15.4	217.1	-6.0	171.1	-8.3

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan produk getah lain yang t.t.t.l.		Pembuatan produk plastik separa siap		Pembuatan produk plastik siap	
		<i>Manufacture of other rubber products n.e.c.</i>		<i>Manufacture of semi-manufactures of plastic products</i>		<i>Manufacture of finished plastic products</i>	
Kod/ Codes		22199		22201		22202	
Wajaran/Weight 2015		0.37		0.36		0.17	
2021		130.6	-6.2	153.9	32.0	103.8	-2.0
2022		140.0	7.2	177.6	15.4	96.2	-7.2
2022	Q1	137.0	3.9	174.7	10.6	111.8	14.5
	Q2	132.4	1.5	176.0	19.8	89.9	-5.3
	Q3	142.1	9.6	192.3	25.8	84.2	-17.3
	Q4	148.6	13.7	167.6	6.1	99.0	-17.9
2023	Q1	131.9	-3.7	155.4	-11.0	120.0	7.3
	Q2	142.8	7.9	159.9	-9.1	98.5	9.6
2022	(Jan.-Aug.)	135.5	3.4	180.4	17.2	96.5	-1.8
2023	(Jan.-Aug.)	139.0	2.6	155.5	-13.8	106.8	10.6
2022	Jan.	136.1	7.9	177.3	7.9	106.3	21.8
	Feb.	135.8	2.6	194.3	18.1	117.3	4.3
	Mar.	139.0	1.5	152.4	5.2	111.9	19.8
	Apr.	146.3	2.8	166.4	21.5	87.7	1.9
	May	124.0	-2.0	155.6	13.6	88.9	0.9
	Jun.	126.8	3.6	205.9	23.3	93.1	-15.8
	Jul.	134.8	2.3	207.6	24.6	83.3	-17.6
	Aug.	140.9	8.9	183.9	22.4	83.5	-22.4
	Sep.	150.6	17.9	185.4	30.9	85.7	-11.2
	Oct.	165.7	17.6	165.0	27.2	91.0	-22.5
	Nov.	136.0	7.2	179.0	5.6	99.8	-18.2
	Dec.	144.0	15.8	158.9	-9.0	106.3	-13.3
2023	Jan.	134.2	-1.4	151.8	-14.4	112.9	6.2
	Feb.	135.2	-0.4	162.9	-16.2	135.4	15.4
	Mar.	126.1	-9.3	151.6	-0.5	111.6	-0.3
	Apr.	150.4	2.8	140.3	-15.7	93.7	6.8
	May	129.6	4.6	183.9	18.2	103.6	16.6
	Jun.	148.5	17.1	155.5	-24.5	98.3	5.6
	Jul.	143.2	6.2	159.3	-23.3	99.9	19.9
	Aug.	144.8	2.7	139.0	-24.4	98.6	18.0

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan artikel plastik untuk pembungkusan barangan		Pembuatan barangan plastik jurubina		Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	
		<i>Manufacture of plastic articles for the packing of goods</i>		<i>Manufacture of builders' plastics ware</i>		<i>Manufacture of plastic tableware, kitchenware and toilet articles</i>	
		<b>Kod/ Codes</b>	<b>22203</b>	<b>22204</b>		<b>22205</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.62</b>	<b>0.07</b>		<b>0.17</b>	
2021		138.5	12.4	129.6	22.2	88.2	-8.0
2022		145.2	4.8	119.7	-7.6	76.2	-13.6
2022	Q1	135.0	7.5	131.5	-1.3	77.1	-2.2
	Q2	141.9	11.0	120.1	-7.2	83.4	-8.9
	Q3	166.0	6.0	125.1	-3.8	85.2	-9.6
	Q4	137.8	-4.3	102.3	-18.7	59.1	-33.0
2023	Q1	116.6	-13.6	117.3	-10.8	63.1	-18.2
	Q2	136.8	-3.6	103.3	-14.0	75.0	-10.1
2022	(Jan.-Aug.)	145.0	8.5	125.9	-3.9	85.0	-3.6
2023	(Jan.-Aug.)	138.9	-4.2	109.2	-13.3	73.6	-13.5
2022	Jan.	138.4	10.2	145.2	11.3	81.1	2.1
	Feb.	132.5	6.2	121.4	-12.0	77.5	-0.2
	Mar.	134.1	5.9	127.9	-2.6	72.9	-8.4
	Apr.	135.8	15.7	121.7	-12.3	75.5	-15.3
	May	127.2	6.8	117.6	7.2	77.1	-6.3
	Jun.	162.5	10.7	121.0	-13.3	97.7	-5.5
	Jul.	165.8	10.2	117.7	-9.5	103.4	1.9
	Aug.	163.6	3.1	135.0	3.9	94.8	2.7
	Sep.	168.7	5.1	122.5	-5.8	57.4	-35.4
	Oct.	149.6	-5.5	101.4	-22.3	56.4	-30.8
	Nov.	140.2	1.6	109.1	-9.8	60.0	-33.0
	Dec.	123.5	-9.1	96.4	-23.4	61.0	-35.0
2023	Jan.	120.9	-12.7	113.8	-21.6	62.0	-23.6
	Feb.	120.7	-8.9	124.2	2.3	61.8	-20.2
	Mar.	108.1	-19.3	113.8	-11.0	65.6	-10.0
	Apr.	116.8	-14.0	105.9	-12.9	72.5	-3.9
	May	128.9	1.3	111.0	-5.7	62.9	-18.4
	Jun.	164.6	1.3	93.0	-23.2	89.5	-8.3
	Jul.	180.5	8.9	96.7	-17.8	96.2	-7.0
	Aug.	170.7	4.4	115.4	-14.5	78.0	-17.8

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan pelbagai produk plastik t.t.t.l.		Pembuatan kaca leper, termasuk kaca leper berdawai, berwarna atau sedikit berwarna		Pembuatan produk kaca lain t.t.t.l.	
		<i>Manufacture of diverse plastic products n.e.c.</i>		<i>Manufacture of flat glass, including wired, coloured or tinted flat glass</i>		<i>Manufacture of other glass products n.e.c.</i>	
		<b>Kod/ Codes</b>	<b>22209</b>	<b>23101</b>		<b>23109</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.86</b>	<b>0.15</b>		<b>0.23</b>	
2021		128.9	8.5	117.2	-9.8	93.9	-18.5
2022		128.3	-0.5	123.1	5.0	103.3	10.1
2022	Q1	120.3	1.0	123.7	5.6	104.1	21.5
	Q2	114.9	-3.7	113.9	14.9	96.2	27.2
	Q3	137.3	1.8	127.0	3.7	104.2	16.3
	Q4	140.7	-1.2	127.7	-1.8	108.9	-12.5
2023	Q1	113.5	-5.6	124.4	0.6	85.1	-18.2
	Q2	115.1	0.2	123.1	8.1	76.4	-20.6
2022	(Jan.-Aug.)	122.4	-0.5	121.1	9.5	101.1	24.0
2023	(Jan.-Aug.)	121.8	-0.5	127.4	5.1	85.6	-15.4
2022	Jan.	126.0	2.4	124.6	-1.0	100.7	17.1
	Feb.	119.5	-1.1	118.0	10.9	95.9	18.6
	Mar.	115.2	1.8	128.4	7.8	115.7	28.2
	Apr.	105.9	3.1	111.0	10.1	100.9	17.7
	May	104.7	-5.8	110.0	18.9	95.7	19.0
	Jun.	134.0	-7.0	120.5	16.1	91.9	51.2
	Jul.	133.3	-1.1	126.1	8.1	103.4	57.8
	Aug.	140.6	4.8	130.3	8.9	104.8	1.8
	Sep.	137.9	1.7	124.6	-5.0	104.3	3.9
	Oct.	140.7	6.9	131.5	-6.5	115.8	-6.5
	Nov.	146.7	-4.2	122.0	0.8	108.2	-16.2
	Dec.	134.7	-5.6	129.6	0.9	102.7	-14.8
2023	Jan.	112.8	-10.5	124.2	-0.3	82.9	-17.7
	Feb.	111.5	-6.7	125.3	6.2	83.6	-12.8
	Mar.	116.2	0.8	123.7	-3.6	89.0	-23.1
	Apr.	102.1	-3.7	123.2	11.0	79.6	-21.1
	May	102.5	-2.1	120.2	9.3	75.6	-21.1
	Jun.	140.8	5.1	125.9	4.4	73.9	-19.6
	Jul.	136.6	2.5	130.6	3.5	82.0	-20.8
	Aug.	152.0	8.0	145.6	11.7	118.2	12.8

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan seramik bukan refraktori		Pembuatan produk porselin dan seramik lain		Pembuatan simen hidrolik	
		<i>Manufacture of non-refractory ceramic</i>		<i>Manufacture of other porcelain and ceramic products</i>		<i>Manufacture of hydraulic cement</i>	
		Kod/ Codes	23921	23930		23941	
		Wajaran/Weight 2015	0.23	0.07		0.74	
2021		80.3	-16.0	100.5	12.2	113.7	-0.3
2022		67.0	-16.6	105.8	5.3	120.8	6.2
2022	Q1	65.5	-19.3	103.4	-0.6	171.9	21.0
	Q2	57.6	-15.1	110.3	3.8	85.5	22.5
	Q3	62.0	-4.3	116.2	21.4	78.0	-3.6
	Q4	83.0	-22.8	93.3	-2.8	147.8	-8.9
2023	Q1	68.1	4.0	93.7	-9.4	172.3	0.3
	Q2	71.4	24.0	94.5	-14.3	101.1	18.2
2022	(Jan.-Aug.)	61.9	-14.6	109.6	6.1	113.9	18.9
2023	(Jan.-Aug.)	70.3	13.5	94.5	-13.8	123.4	8.3
2022	Jan.	66.0	-26.2	106.2	16.9	189.0	16.7
	Feb.	55.8	-21.1	105.5	-1.4	167.7	14.0
	Mar.	74.6	-10.2	98.4	-13.8	158.9	35.6
	Apr.	53.7	-27.0	117.6	-0.4	130.8	24.6
	May	57.6	-23.3	105.2	7.7	66.2	12.9
	Jun.	61.4	11.9	107.9	5.1	59.6	29.9
	Jul.	59.2	4.6	117.0	19.6	52.5	16.4
	Aug.	67.2	-12.2	119.2	21.2	86.7	1.4
	Sep.	59.7	-2.6	112.6	23.4	94.7	-15.4
	Oct.	71.5	-33.7	97.3	3.3	117.4	-19.7
	Nov.	100.2	-17.2	90.9	-8.5	148.2	-6.5
	Dec.	77.3	-17.5	91.9	-2.9	177.7	-2.2
2023	Jan.	76.4	15.7	94.7	-10.9	169.4	-10.3
	Feb.	65.2	16.8	96.1	-8.9	169.9	1.3
	Mar.	62.6	-16.1	90.3	-8.2	177.7	11.8
	Apr.	65.7	22.5	101.5	-13.7	138.2	5.6
	May	71.0	23.1	98.2	-6.7	86.9	31.3
	Jun.	77.5	26.3	83.9	-22.3	78.3	31.5
	Jul.	73.1	23.5	92.9	-20.5	68.7	30.7
	Aug.	70.9	5.5	98.6	-17.3	97.8	12.8

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Pembuatan kapur dan plaster		Pembuatan konkrit dan mortar siap bancuh dan bancuhan kering		Pembuatan konkrit pratuangan, simen atau artikel batu buatan yang digunakan dalam pembinaan	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of lime and plaster</i>		<i>Manufacture of ready-mix and dry-mix concrete and mortars</i>		<i>Manufacture of precast concrete, cement or artificial stone articles for use in construction</i>	
		<b>Kod/ Codes</b>	<b>23942</b>	<b>23951</b>		<b>23952</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.09</b>	<b>0.36</b>		<b>0.38</b>	
2021		95.9	0.6	143.9	26.3	77.6	-9.0
2022		102.5	6.8	178.5	24.0	92.9	19.7
2022	Q1	94.6	-17.6	151.1	8.2	88.6	0.2
	Q2	86.9	5.1	165.1	22.9	86.0	19.2
	Q3	96.9	9.3	194.3	45.5	98.1	49.0
	Q4	131.6	34.7	203.5	21.0	98.8	17.7
2023	Q1	111.1	17.4	187.2	23.8	91.4	3.2
	Q2	110.2	26.9	153.1	-7.3	84.3	-1.9
2022	(Jan.-Aug.)	92.4	-3.2	166.6	25.1	89.7	17.1
2023	(Jan.-Aug.)	113.8	23.1	176.0	5.7	91.3	1.9
2022	Jan.	101.0	-21.7	167.2	33.2	86.0	-7.2
	Feb.	93.2	-12.8	127.3	5.0	90.5	10.5
	Mar.	89.6	-17.4	158.9	-7.8	89.3	-1.6
	Apr.	78.6	-6.7	154.1	-1.4	85.8	10.7
	May	89.9	5.4	166.2	12.7	81.8	11.6
	Jun.	92.1	17.4	174.9	76.5	90.3	37.8
	Jul.	93.7	21.3	178.1	75.7	95.0	61.2
	Aug.	101.0	7.3	205.7	45.1	98.6	36.7
	Sep.	96.1	1.6	199.1	26.3	100.8	51.5
	Oct.	126.5	23.0	223.8	32.7	112.6	49.6
	Nov.	130.7	36.4	188.2	11.8	94.7	8.6
	Dec.	137.6	45.6	198.4	18.5	89.0	-0.2
2023	Jan.	117.2	16.0	216.3	29.3	91.4	6.3
	Feb.	107.2	15.1	162.5	27.7	93.4	3.3
	Mar.	108.8	21.5	182.7	14.9	89.5	0.2
	Apr.	101.8	29.5	144.6	-6.2	89.6	4.5
	May	122.0	35.8	139.1	-16.3	70.5	-13.7
	Jun.	106.9	16.0	175.6	0.4	92.9	2.8
	Jul.	117.9	25.8	175.6	-1.4	105.9	11.5
	Aug.	128.2	26.9	211.7	2.9	97.6	-1.1

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan komponen struktur pasang siap untuk bangunan atau kejuruteraan awam dari simen, batu atau konkrit buatan		Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.		Pembuatan produk mineral bukan logam lain t.t.t.l.	
		<i>Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone</i>		<i>Manufacture of other articles of concrete, cement and plaster n.e.c.</i>		<i>Manufacture of other non-metallic mineral products n.e.c.</i>	
		<b>Kod/ Codes</b>	<b>23953</b>	<b>23959</b>	<b>23990</b>		
		<b>Wajaran/Weight 2015</b>	<b>0.18</b>	<b>0.19</b>	<b>0.21</b>		
2021		91.4	-1.0	95.7	3.1	99.5	13.2
2022		87.9	-3.8	108.4	13.2	95.7	-3.7
2022	Q1	98.0	-15.9	135.2	3.5	100.9	-14.6
	Q2	90.8	-1.6	91.6	28.5	83.6	-18.1
	Q3	85.3	11.3	91.4	35.9	90.5	2.5
	Q4	77.7	-2.9	115.5	1.4	108.0	20.9
2023	Q1	92.9	-5.1	125.2	-7.4	107.6	6.6
	Q2	82.2	-9.5	101.5	10.8	74.8	-10.5
2022	(Jan.-Aug.)	91.7	-5.9	106.5	16.5	91.3	-12.4
2023	(Jan.-Aug.)	85.1	-7.1	102.6	-3.6	87.9	-3.7
2022	Jan.	85.3	-21.1	145.5	-2.5	101.8	-24.3
	Feb.	107.9	-14.5	146.0	5.4	96.2	3.5
	Mar.	100.7	-12.6	114.0	9.7	104.7	-17.7
	Apr.	98.5	-7.5	98.3	17.4	103.6	-8.8
	May	84.9	-14.5	83.4	21.0	72.3	-25.8
	Jun.	89.1	24.9	93.0	52.2	74.8	-21.4
	Jul.	88.0	23.9	85.6	49.2	77.7	-7.4
	Aug.	78.9	-3.1	85.8	25.8	99.2	11.8
	Sep.	88.9	14.8	102.7	34.8	94.6	2.6
	Oct.	83.6	30.9	110.0	12.5	109.8	9.1
	Nov.	77.4	-9.1	114.2	-5.8	107.1	29.0
	Dec.	72.1	-20.8	122.3	-0.3	107.0	26.9
2023	Jan.	77.4	-9.2	131.8	-9.4	105.3	3.5
	Feb.	95.1	-11.9	131.0	-10.2	113.8	18.4
	Mar.	106.3	5.6	112.7	-1.1	103.6	-1.0
	Apr.	92.4	-6.2	109.6	11.5	98.0	-5.4
	May	88.3	4.0	103.1	23.7	62.4	-13.8
	Jun.	66.0	-25.9	91.7	-1.4	64.1	-14.3
	Jul.	78.9	-10.4	68.7	-19.7	66.3	-14.7
	Aug.	76.7	-2.9	72.1	-16.0	89.8	-9.6

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pengeluaran jongsong besi dan spiegeleisen dalam bentuk jongsong, blok atau dalam bentuk asal lain		Pembuatan batang dan rod keluli tahan karat atau keluli aloi lain		Pembuatan tiub tidak berkelim, dengan pengelekan, picitan atau tempaan panas, atau dengan tempaan atau pengelekan sejuk	
		<i>Production of pig iron and spiegeleisen in pigs, blocks or other primary forms</i>		<i>Production of bars and rods of stainless steel or other alloy steel</i>		<i>Manufacture of seamless tubes, by hot rolling, hot extrusion or hot drawing, or by cold drawing or cold rolling</i>	
		<b>Kod/ Codes</b>	<b>24101</b>	<b>24102</b>		<b>24103</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.23</b>	<b>0.79</b>		<b>0.11</b>	
2021		103.1	-1.9	130.6	4.4	82.7	-14.5
2022		107.6	4.3	141.3	8.2	81.7	-1.1
2022	Q1	122.6	13.5	131.6	4.1	91.8	-9.2
	Q2	83.0	-8.0	133.5	10.4	73.1	6.2
	Q3	102.0	4.8	145.6	10.3	73.9	7.6
	Q4	122.9	5.0	154.4	8.1	88.1	-4.2
2023	Q1	132.8	8.4	151.0	14.7	93.3	1.6
	Q2	108.0	30.1	159.1	19.2	66.0	-9.8
2022	(Jan.-Aug.)	102.6	2.8	134.6	10.0	79.0	-1.1
2023	(Jan.-Aug.)	118.7	15.6	150.3	11.6	74.9	-5.2
2022	Jan.	122.3	21.0	133.8	4.9	99.6	-8.1
	Feb.	125.7	1.1	122.2	2.9	90.0	-8.9
	Mar.	119.7	21.4	138.8	4.3	85.8	-11.0
	Apr.	81.4	-9.7	147.5	5.0	68.7	-10.7
	May	82.9	-15.5	128.4	6.2	79.4	20.5
	Jun.	84.7	2.9	124.5	22.9	71.4	11.6
	Jul.	94.8	4.9	127.1	25.7	68.1	8.7
	Aug.	109.3	-3.5	154.6	13.5	68.9	3.8
	Sep.	101.8	15.4	155.2	-2.3	84.6	9.9
	Oct.	107.6	-1.7	159.4	16.1	76.2	-15.5
	Nov.	126.8	10.5	158.9	7.1	85.6	-5.6
	Dec.	134.3	5.8	144.8	1.6	102.6	7.9
2023	Jan.	117.5	-4.0	139.6	4.4	114.2	14.6
	Feb.	138.6	10.3	149.1	22.0	89.9	-0.1
	Mar.	142.3	18.9	164.3	18.3	75.8	-11.7
	Apr.	123.5	51.7	163.4	10.7	51.4	-25.1
	May	101.0	21.8	168.6	31.3	73.7	-7.1
	Jun.	99.5	17.4	145.3	16.7	72.9	2.1
	Jul.	104.6	10.3	124.9	-1.8	58.8	-13.7
	Aug.	122.3	11.9	147.1	-4.9	62.7	-9.0

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan produk besi asas dan keluli lain t.t.t.l.		Peleburan timah; Pengeluaran aluminium daripada alumina; & Pembuatan logam asas berharga dan logam bukan ferus lain t.t.t.l.		Pembuatan pintu, tingkap dan bingkai, penutup tingkap dan pintu pagar daripada logam	
		<i>Manufacture of other basic iron and steel products n.e.c.</i>		<i>Tin smelting; Production of aluminium from alumina; &amp; Manufacture of other basic precious and other non-ferrous metal n.e.c</i>		<i>Manufacture of metal doors, windows and their frames, shutters and gates</i>	
	Kod/ Codes	24109		24201, 24202 & 24209		25113	
	Wajaran/Weight 2015	0.33		0.71		0.32	
2021		94.3	-3.3	112.7	5.8	107.5	-5.1
2022		100.2	6.2	0.0	-100.0	104.9	-2.4
2022	Q1	107.7	11.7	127.7	9.8	118.4	-2.0
	Q2	102.5	23.8	117.3	12.5	94.3	-3.0
	Q3	97.7	9.9	117.1	14.9	92.0	-5.4
	Q4	92.9	-15.0	121.7	-5.2	114.9	0.1
2023	Q1	86.6	-19.6	89.7	-29.8	113.4	-4.2
	Q2	79.8	-22.1	100.1	-14.6	96.8	2.6
2022	(Jan.-Aug.)	102.3	16.8	120.9	13.8	101.8	-3.7
2023	(Jan.-Aug.)	85.6	-16.3	116.6	-3.6	103.6	1.8
2022	Jan.	110.1	11.1	129.5	5.4	120.4	2.9
	Feb.	104.1	6.5	128.4	9.8	121.4	-8.8
	Mar.	108.9	18.0	125.2	14.8	113.3	0.9
	Apr.	110.3	23.2	118.8	6.7	92.1	-7.4
	May	98.3	20.3	117.0	10.2	92.9	-13.5
	Jun.	98.9	28.3	115.9	21.8	98.0	15.3
	Jul.	96.0	28.3	112.3	30.4	83.2	-8.7
	Aug.	92.0	3.7	120.2	17.7	93.0	-7.5
	Sep.	105.0	1.9	119.0	1.0	99.9	-0.3
	Oct.	98.5	-10.7	122.4	-7.0	114.9	-3.9
	Nov.	95.4	-13.1	123.1	-1.3	107.0	-9.6
	Dec.	84.9	-21.3	119.7	-7.1	122.7	15.2
2023	Jan.	80.0	-27.3	115.6	-10.7	113.9	-5.4
	Feb.	90.4	-13.2	119.5	-6.9	114.3	-5.9
	Mar.	89.2	-18.0	118.3	-5.6	112.2	-1.0
	Apr.	79.8	-27.7	115.5	-2.8	84.9	-7.8
	May	75.7	-23.0	101.4	-13.3	98.9	6.5
	Jun.	83.9	-15.1	108.8	-6.1	106.6	8.8
	Jul.	96.5	0.5	121.3	8.0	102.9	23.7
	Aug.	89.4	-2.8	132.4	10.2	95.4	2.6

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan produk struktur logam lain		Pembuatan tangki, takungan dan kontena daripada logam		Tempaan, tekanan, hentakan dan bentuk gelekan logam; serbuk metalurgi		Rawatan dan penyalutan logam; menggunakan mesin	
		<i>Manufacture of other structural metal products</i>		<i>Manufacture of tanks, reservoirs and containers of metal</i>		<i>Forging, pressing, stamping and roll-forming of metal; powder metallurgy</i>		<i>Treatment and coating of metals; machining</i>	
Kod/ Codes		25119		25120		25910		25920	
Wajaran/Weight 2015		0.54		0.31		0.32		0.25	
2021		112.7	-2.0	113.5	14.0	96.7	8.4	118.9	-0.7
2022		121.4	7.7	131.5	15.9	101.1	4.5	141.8	19.2
2022	Q1	125.6	11.6	141.7	5.2	111.4	5.5	147.3	35.6
	Q2	107.1	10.4	115.6	27.2	97.9	-7.7	103.6	21.8
	Q3	121.6	14.7	119.5	35.7	100.9	39.6	120.0	5.3
	Q4	131.2	-3.0	149.1	6.4	94.1	-8.5	196.3	16.8
2023	Q1	144.7	15.2	168.1	18.6	108.1	-3.0	179.4	21.8
	Q2	112.9	5.4	152.1	31.6	108.6	10.9	129.8	25.3
2022	(Jan.-Aug.)	117.8	12.6	124.3	18.9	101.1	4.1	120.0	5.4
2023	(Jan.-Aug.)	126.9	7.7	150.3	21.0	110.0	8.8	145.4	21.2
2022	Jan.	138.2	17.7	171.8	16.9	125.7	3.5	197.7	27.8
	Feb.	112.5	6.5	121.0	-12.4	105.9	24.0	138.9	43.6
	Mar.	126.2	9.9	132.4	11.1	102.5	-6.6	105.2	41.5
	Apr.	109.2	8.0	113.0	15.1	96.7	-13.9	97.3	17.6
	May	103.7	7.5	116.8	19.1	98.3	-15.7	104.9	9.5
	Jun.	108.5	16.0	117.1	53.0	98.9	10.5	108.7	41.7
	Jul.	114.0	11.9	108.7	33.0	86.5	25.2	94.5	66.3
	Aug.	129.7	22.4	113.2	46.6	94.5	29.0	112.6	-5.3
	Sep.	120.9	10.0	136.6	29.8	121.7	63.3	153.0	-7.9
	Oct.	118.9	-14.0	136.5	13.4	94.2	-8.2	208.8	13.2
	Nov.	130.6	-7.9	153.8	0.3	94.8	-7.1	199.5	29.8
	Dec.	144.1	14.6	157.0	6.9	93.2	-10.2	180.5	8.7
2023	Jan.	143.7	4.0	198.7	15.7	115.9	-7.9	234.0	18.4
	Feb.	145.1	28.9	150.0	24.0	96.8	-8.6	159.7	15.0
	Mar.	145.3	15.2	155.6	17.5	111.6	8.9	144.5	37.3
	Apr.	132.1	20.9	138.9	22.9	101.4	4.8	122.2	25.6
	May	106.4	2.6	162.9	39.4	113.5	15.6	142.4	35.8
	Jun.	100.4	-7.5	154.6	32.1	110.9	12.2	124.7	14.8
	Jul.	105.3	-7.7	132.5	21.8	109.3	26.5	108.2	14.5
	Aug.	136.8	5.4	109.2	-3.6	120.6	27.6	127.2	12.9

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat		Pembuatan kabel, plaited bands (jalur/pita berpintal) dan artikel seumpamanya daripada logam		Pembuatan bolt, skru, nat dan produk uliran seumpamanya	
		<i>Manufacture of tins and cans for food products, collapsible tubes and boxes</i>		<i>Manufacture of metal cable, plaited bands and similar articles</i>		<i>Manufacture of bolts, screws, nuts and similar threaded products</i>	
		<b>Kod/ Codes</b>	<b>25991</b>	<b>25992</b>	<b>25993</b>		
		<b>Wajaran/Weight 2015</b>	<b>0.41</b>	<b>0.35</b>	<b>0.31</b>		
2021		93.3	6.1	84.8	-6.1	109.0	18.6
2022		89.6	-4.1	92.5	9.0	97.3	-10.7
2022	Q1	99.2	-8.3	90.5	4.5	108.9	-3.5
	Q2	88.5	8.4	87.0	20.6	97.4	-6.3
	Q3	81.8	-2.9	95.2	9.1	96.1	-11.8
	Q4	88.7	-10.6	97.1	4.2	86.7	-21.3
2023	Q1	94.2	-5.0	85.1	-6.0	92.1	-15.4
	Q2	69.4	-21.6	91.9	5.6	91.5	-6.0
2022	(Jan.-Aug.)	90.9	0.5	90.8	12.4	101.2	-6.3
2023	(Jan.-Aug.)	82.8	-8.9	92.9	2.4	93.3	-7.8
2022	Jan.	106.8	-10.9	100.8	-2.1	124.0	-3.2
	Feb.	96.6	-11.1	78.2	8.1	93.9	-0.2
	Mar.	94.1	-2.0	92.4	9.4	108.8	-6.5
	Apr.	85.0	2.3	82.0	7.0	97.6	-11.6
	May	90.5	10.9	87.2	25.8	96.6	-15.0
	Jun.	90.1	12.0	91.8	30.4	98.2	11.8
	Jul.	80.1	10.0	96.8	22.0	97.9	-3.3
	Aug.	84.1	3.8	96.8	6.9	92.5	-17.6
	Sep.	81.4	-17.9	92.1	0.1	97.9	-13.7
	Oct.	85.1	-11.9	85.1	-6.7	82.9	-26.0
	Nov.	88.8	-13.2	102.0	7.6	91.2	-16.8
	Dec.	92.2	-6.6	104.1	11.6	85.9	-21.1
2023	Jan.	93.0	-12.9	95.4	-5.3	104.7	-15.5
	Feb.	94.9	-1.8	76.5	-2.2	82.6	-12.0
	Mar.	94.6	0.6	83.3	-9.8	89.1	-18.2
	Apr.	76.3	-10.2	82.7	0.9	82.5	-15.4
	May	48.8	-46.1	94.4	8.2	97.9	1.4
	Jun.	83.0	-7.8	98.6	7.4	94.2	-4.0
	Jul.	83.2	4.0	114.0	17.8	83.7	-14.5
	Aug.	88.3	5.1	98.4	1.6	111.3	20.2

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan produk lain yang direka daripada logam t.t.t.l.		Pembuatan diod, transistor dan alat semikonduktor yang seumpamanya		Pembuatan litar elektronik bersepadu dengan pemasangan mikro	
		<i>Manufacture of any other fabricated metal products n.e.c.</i>		<i>Manufacture of diodes, transistors and similar semiconductor devices</i>		<i>Manufacture of electronic integrated circuits micro assemblies</i>	
		<b>Kod/ Codes</b>	<b>25999</b>	<b>26101</b>		<b>26102</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.45</b>	<b>3.25</b>		<b>1.76</b>	
2021		122.2	10.6	155.2	16.8	174.6	10.0
2022		141.5	15.8	176.8	13.9	204.4	17.0
2022	Q1	137.6	1.9	157.8	19.3	154.8	0.3
	Q2	134.6	17.4	171.9	13.3	233.1	13.8
	Q3	141.1	28.9	182.6	15.1	231.4	41.5
	Q4	152.9	17.8	194.7	9.3	198.2	12.7
2023	Q1	127.9	-7.1	167.4	6.0	138.6	-10.5
	Q2	140.3	4.2	163.1	-5.1	190.9	-18.1
2022	(Jan.-Aug.)	133.3	13.9	168.5	16.1	203.6	13.9
2023	(Jan.-Aug.)	134.6	1.0	164.0	-2.7	172.5	-15.3
2022	Jan.	145.5	0.7	162.5	24.0	167.2	-4.7
	Feb.	128.6	13.5	141.9	12.7	125.1	0.5
	Mar.	138.8	-5.8	169.1	20.8	172.1	5.5
	Apr.	144.6	9.1	159.8	14.2	200.2	6.9
	May	128.1	6.5	162.3	15.7	219.9	14.7
	Jun.	131.1	43.9	193.6	10.7	279.2	18.6
	Jul.	123.2	31.5	175.0	14.4	227.4	30.0
	Aug.	126.3	34.8	183.8	17.8	237.7	33.6
	Sep.	173.8	23.2	189.1	13.3	229.1	66.1
	Oct.	196.6	48.7	189.4	6.7	212.5	23.8
	Nov.	142.7	6.1	206.5	12.8	178.9	5.7
	Dec.	119.4	-2.7	188.2	8.5	203.1	8.8
2023	Jan.	134.8	-7.3	181.6	11.7	156.2	-6.5
	Feb.	128.2	-0.3	151.4	6.7	107.9	-13.8
	Mar.	120.7	-13.0	169.0	0.0	151.7	-11.9
	Apr.	122.3	-15.4	144.1	-9.8	158.8	-20.7
	May	164.2	28.2	153.6	-5.4	176.2	-19.9
	Jun.	134.3	2.4	191.7	-1.0	237.8	-14.8
	Jul.	134.2	9.0	151.1	-13.7	195.3	-14.1
	Aug.	137.6	9.0	169.1	-8.0	196.2	-17.4

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan kapasitor dan perintang elektrik		Pembuatan papan litar bercetak		Pembuatan komponen paparan	
		<i>Manufacture of electrical capacitors and resistors</i>		<i>Manufacture of printed circuit boards</i>		<i>Manufacture of display components</i>	
		<b>Kod/ Codes</b>	<b>26103</b>	<b>26104</b>		<b>26105</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.29</b>	<b>2.19</b>		<b>0.01</b>	
2021		179.3	6.4	182.2	26.1	120.9	-8.5
2022		154.2	-14.0	240.7	32.1	118.8	-1.7
2022	Q1	178.8	15.4	198.0	40.2	118.7	-7.0
	Q2	153.2	-7.0	229.2	35.6	118.5	0.7
	Q3	135.0	-25.4	251.0	27.0	114.4	-1.5
	Q4	150.0	-30.7	284.6	28.8	123.6	1.3
2023	Q1	165.1	-7.6	220.7	11.4	113.6	-4.3
	Q2	142.3	-7.1	234.2	2.2	117.4	-0.9
2022	(Jan.-Aug.)	157.7	-5.1	220.7	36.4	117.3	-2.7
2023	(Jan.-Aug.)	148.3	-5.9	229.1	3.8	115.1	-1.8
2022	Jan.	182.6	2.5	202.6	38.4	127.1	-10.1
	Feb.	171.1	20.6	187.0	37.3	111.7	-8.2
	Mar.	182.6	26.4	204.4	44.9	117.2	-2.4
	Apr.	166.5	15.2	193.3	23.5	116.8	1.8
	May	127.7	-33.5	209.1	36.3	118.7	-2.0
	Jun.	165.5	5.1	285.2	44.8	120.1	2.3
	Jul.	153.5	-31.1	233.9	39.2	112.7	0.9
	Aug.	111.9	-24.3	249.7	28.0	113.7	-1.8
	Sep.	139.7	-19.2	269.3	17.2	116.9	-3.3
	Oct.	150.4	-32.0	283.5	30.3	123.8	8.6
	Nov.	157.2	-27.0	299.1	35.9	123.8	-2.6
	Dec.	142.3	-33.1	271.1	20.3	123.4	-1.4
2023	Jan.	140.1	-23.3	248.1	22.5	122.0	-4.1
	Feb.	174.0	1.7	198.9	6.4	104.1	-6.8
	Mar.	181.3	-0.7	215.0	5.2	114.8	-2.1
	Apr.	150.7	-9.5	211.3	9.3	113.2	-3.1
	May	139.3	9.1	232.4	11.1	118.8	0.1
	Jun.	137.0	-17.2	259.0	-9.2	120.2	0.1
	Jul.	148.2	-3.5	258.9	10.7	114.1	1.3
	Aug.	116.1	3.8	208.8	-16.4	113.5	-0.1

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan komponen lain untuk aplikasi elektronik		Pembuatan komputer		Pembuatan kelengkapan peranti	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of other components for electronic applications</i>		<i>Manufacture of computers</i>		<i>Manufacture of peripheral equipment</i>	
Kod/ Codes		26109		26201		26202	
Wajaran/Weight 2015		0.19		0.66		1.16	
2021		107.4	-12.1	113.2	1.5	121.7	21.8
2022		111.9	4.2	129.0	13.9	123.4	1.4
2022	Q1	111.3	3.8	118.4	9.7	113.9	10.0
	Q2	108.6	2.9	131.9	26.8	137.0	1.8
	Q3	107.8	4.6	141.0	13.8	136.6	8.2
	Q4	119.8	5.3	124.6	6.5	106.0	-13.5
2023	Q1	136.4	22.6	93.1	-21.4	113.8	-0.1
	Q2	128.2	18.1	133.3	1.1	117.5	-14.3
2022	(Jan.-Aug.)	109.1	3.9	129.9	17.2	129.8	6.1
2023	(Jan.-Aug.)	128.8	18.0	119.9	-7.7	131.7	1.5
2022	Jan.	112.8	10.5	122.0	4.9	118.7	19.4
	Feb.	108.9	-1.0	112.0	12.4	102.0	8.8
	Mar.	112.0	2.3	121.3	12.5	120.8	3.0
	Apr.	107.4	0.3	127.3	34.1	138.0	3.2
	May	105.3	-4.6	118.9	30.9	112.7	-4.8
	Jun.	113.0	14.1	149.5	18.4	160.3	5.7
	Jul.	107.9	8.2	138.6	2.4	145.4	12.8
	Aug.	105.2	3.1	149.8	29.2	140.0	3.3
	Sep.	110.2	2.7	134.5	11.7	124.5	8.7
	Oct.	118.3	5.9	146.2	6.6	112.4	-15.6
	Nov.	118.9	3.0	108.1	3.5	108.9	-5.8
	Dec.	122.2	7.1	119.5	9.3	96.9	-18.5
2023	Jan.	120.7	7.0	98.0	-19.7	106.8	-10.1
	Feb.	143.3	31.6	79.9	-28.6	111.2	9.0
	Mar.	145.2	29.6	101.4	-16.5	123.4	2.2
	Apr.	146.7	36.5	121.7	-4.4	121.8	-11.8
	May	135.8	29.0	114.5	-3.8	103.8	-8.0
	Jun.	102.1	-9.6	163.7	9.5	126.9	-20.8
	Jul.	117.7	9.0	137.7	-0.6	184.2	26.7
	Aug.	118.5	12.7	142.1	-5.2	175.3	25.2

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan peralatan komunikasi		Pembuatan elektronik pengguna		Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan	
		<i>Manufacture of communication equipment</i>		<i>Manufacture of consumer electronics</i>		<i>Manufacture of measuring, testing, navigating and control equipment</i>	
Kod/ Codes		26300		26400		26511	
Wajaran/Weight 2015		0.91		2.43		0.39	
2021		97.2	-12.6	155.9	24.3	139.5	21.0
2022		95.4	-1.9	183.0	17.4	172.2	23.5
2022	Q1	98.2	-8.6	169.3	22.1	140.7	20.3
	Q2	88.6	9.1	157.2	30.7	159.3	22.0
	Q3	97.6	1.1	202.4	14.2	186.9	29.2
	Q4	97.2	-6.2	203.0	8.3	202.1	22.0
2023	Q1	106.5	8.4	183.9	8.6	179.6	27.7
	Q2	110.7	24.9	173.2	10.2	174.7	9.7
2022	(Jan.-Aug.)	94.9	0.3	168.9	24.3	157.9	23.4
2023	(Jan.-Aug.)	113.5	19.5	180.4	6.8	182.0	15.3
2022	Jan.	107.9	-16.2	207.0	20.8	144.6	27.7
	Feb.	95.1	-12.9	146.9	16.3	134.7	15.3
	Mar.	91.7	8.5	153.9	30.4	142.6	18.2
	Apr.	83.4	14.3	149.9	35.0	137.0	24.8
	May	90.4	16.2	152.8	35.7	149.3	21.9
	Jun.	92.1	-0.8	168.8	23.2	191.5	20.0
	Jul.	97.7	-9.3	168.0	18.5	167.7	21.6
	Aug.	101.2	20.8	204.1	20.9	195.6	36.7
	Sep.	93.8	-4.3	235.1	6.2	197.5	29.1
	Oct.	97.4	-11.0	199.6	5.1	182.6	21.7
	Nov.	87.5	-13.8	208.7	15.9	212.2	24.5
	Dec.	106.6	6.6	200.9	4.2	211.5	19.9
2023	Jan.	101.3	-6.1	171.1	-17.4	179.0	23.8
	Feb.	108.4	13.9	179.1	21.9	175.4	30.2
	Mar.	109.8	19.7	201.4	30.9	184.3	29.2
	Apr.	97.9	17.3	172.6	15.2	151.8	10.8
	May	115.0	27.2	166.9	9.2	162.9	9.1
	Jun.	119.3	29.6	180.2	6.8	209.5	9.4
	Jul.	127.1	30.2	150.6	-10.3	183.0	9.1
	Aug.	129.0	27.5	221.0	8.3	210.0	7.4

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan jam tangan dan jam dan bahagiannya	Pembuatan peralatan penyinaran, perubahan elektro dan elektroterapeutik	Pembuatan instrumen dan kelengkapan optikal			
		<i>Manufacture of watches and clocks and parts</i>		<i>Manufacture of irradiation, electro medical and electrotherapeutic equipment</i>		<i>Manufacture of optical instruments and equipment</i>	
		<b>Kod/ Codes</b>	<b>26520</b>	<b>26600</b>	<b>26701</b>		
		<b>Wajaran/Weight 2015</b>	<b>0.13</b>	<b>0.40</b>	<b>0.04</b>		
2021		103.4	-15.4	132.6	9.2	111.8	5.2
2022		86.5	-16.3	144.8	9.2	112.0	0.2
2022	Q1	82.0	-34.6	130.4	5.3	117.0	9.7
	Q2	90.6	-12.8	135.0	-3.4	122.0	14.3
	Q3	90.7	-7.7	160.5	21.3	116.5	-8.0
	Q4	82.8	-3.8	153.2	14.0	92.3	-13.8
2023	Q1	77.6	-5.4	128.8	-1.2	110.6	-5.5
	Q2	71.0	-21.6	144.9	7.3	118.9	-2.6
2022	(Jan.-Aug.)	88.3	-20.8	139.7	5.2	118.8	5.8
2023	(Jan.-Aug.)	78.0	-11.6	145.1	3.9	117.3	-1.3
2022	Jan.	78.2	-40.3	127.9	11.0	123.2	-8.6
	Feb.	84.7	-31.5	128.8	8.1	111.6	16.0
	Mar.	83.2	-31.8	134.6	-1.8	116.3	30.5
	Apr.	95.1	-7.0	117.8	-11.0	129.2	21.9
	May	95.3	-5.0	126.0	-3.6	117.6	4.9
	Jun.	81.5	-25.4	161.2	3.1	119.2	17.0
	Jul.	91.6	-19.0	156.9	14.6	120.0	-3.9
	Aug.	97.1	7.1	164.2	22.4	113.3	-15.1
	Sep.	83.3	-8.3	160.4	27.5	116.3	-4.2
	Oct.	76.8	-14.4	162.1	12.3	93.4	-9.7
	Nov.	78.0	-10.4	158.7	25.7	92.0	-11.4
	Dec.	93.5	15.0	138.7	4.7	91.6	-19.6
2023	Jan.	85.1	8.9	119.4	-6.7	100.1	-18.8
	Feb.	76.9	-9.2	122.6	-4.8	111.8	0.2
	Mar.	70.8	-14.9	144.5	7.3	119.8	3.0
	Apr.	65.1	-31.5	108.5	-7.9	115.5	-10.7
	May	77.4	-18.7	150.1	19.1	126.4	7.5
	Jun.	70.6	-13.3	176.0	9.2	114.8	-3.7
	Jul.	89.3	-2.5	171.5	9.3	149.6	24.7
	Aug.	89.0	-8.3	168.0	2.3	100.2	-11.6

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan peralatan fotografi		Pembuatan motor elektrik, penjana dan transformer		Pembuatan perkakasan pengagihan dan pengawalan elektrik	
		<i>Manufacture of photographic equipment</i>		<i>Manufacture of electric motors, generators and transformers</i>		<i>Manufacture of electricity distribution and control apparatus</i>	
Kod/ Codes		26702		27101		27102	
Wajaran/Weight 2015		0.05		0.21		0.44	
2021		63.5	-16.8	141.8	5.1	107.5	5.4
2022		45.2	-28.8	156.4	10.2	102.5	-4.6
2022	Q1	46.7	-28.4	162.9	26.7	96.6	-5.9
	Q2	44.6	-27.7	155.0	18.4	108.4	-8.0
	Q3	48.2	-28.3	152.4	2.8	94.5	-6.9
	Q4	41.5	-30.9	155.1	-2.8	110.8	2.3
2023	Q1	33.8	-27.5	188.1	15.5	90.8	-6.0
	Q2	37.5	-15.9	147.4	-4.9	109.7	1.3
2022	(Jan.-Aug.)	47.0	-27.9	156.8	18.7	99.0	-7.6
2023	(Jan.-Aug.)	37.1	-21.2	158.9	1.4	96.3	-2.7
2022	Jan.	39.5	-35.8	171.3	24.8	98.0	-17.2
	Feb.	48.7	-37.7	148.8	20.9	85.7	-2.7
	Mar.	51.9	-7.1	168.6	34.4	105.9	4.6
	Apr.	40.4	-27.0	164.6	27.8	108.7	-6.0
	May	52.1	-15.5	137.4	10.2	99.6	-12.3
	Jun.	41.2	-39.3	163.0	17.1	116.7	-5.9
	Jul.	45.0	-27.3	157.3	20.2	88.6	-13.4
	Aug.	57.6	-27.6	143.2	-2.7	88.4	-5.5
	Sep.	41.9	-30.4	156.8	-6.0	106.4	-2.0
	Oct.	51.5	-22.7	169.0	3.2	111.4	-0.9
	Nov.	34.4	-33.6	149.6	-2.0	104.6	4.6
	Dec.	38.6	-37.6	146.6	-9.7	116.3	3.5
2023	Jan.	35.3	-10.7	176.2	2.8	94.8	-3.3
	Feb.	30.4	-37.5	195.1	31.1	83.1	-3.1
	Mar.	35.8	-30.9	193.0	14.5	94.6	-10.7
	Apr.	30.0	-25.8	164.9	0.2	99.8	-8.2
	May	40.3	-22.6	139.0	1.2	115.1	15.5
	Jun.	42.2	2.4	138.2	-15.2	114.2	-2.1
	Jul.	36.2	-19.6	145.1	-7.8	88.4	-0.3
	Aug.	46.4	-19.5	120.1	-16.1	80.4	-9.0

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan kabel gentian optikal		Pembuatan wayar dan kabel elektronik dan elektrik lain		Pembuatan perkakasan domestik	
		<i>Manufacture of fibre optic cables</i>		<i>Manufacture of other electronic and electric wires and cables</i>		<i>Manufacture of domestic appliances</i>	
		<b>Kod/ Codes</b>	<b>27310</b>	<b>27320</b>		<b>27500</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.03</b>	<b>0.46</b>		<b>0.47</b>	
<b>2021</b>		113.8	11.6	146.0	12.0	136.1	7.0
<b>2022</b>		128.8	13.2	165.4	13.3	142.6	4.8
<b>2022</b>	<b>Q1</b>	120.5	12.8	161.3	19.1	136.6	20.6
	<b>Q2</b>	129.1	26.7	165.9	25.7	149.5	17.1
	<b>Q3</b>	131.5	8.1	176.6	16.5	148.3	-1.7
	<b>Q4</b>	134.0	7.3	157.8	-4.3	136.0	-11.0
<b>2023</b>	<b>Q1</b>	135.4	12.4	161.3	0.0	123.1	-9.9
	<b>Q2</b>	132.0	2.2	150.6	-9.2	131.5	-12.0
<b>2022</b>	<b>(Jan.-Aug.)</b>	126.6	15.8	165.2	21.6	143.1	12.6
<b>2023</b>	<b>(Jan.-Aug.)</b>	134.7	6.4	153.9	-6.8	128.7	-10.1
<b>2022</b>	<b>Jan.</b>	125.2	-4.8	160.3	10.8	159.5	23.2
	<b>Feb.</b>	110.9	2.9	156.1	17.8	125.4	15.1
	<b>Mar.</b>	125.5	54.4	167.6	29.7	124.9	23.3
	<b>Apr.</b>	131.2	36.5	173.9	38.5	141.5	23.9
	<b>May</b>	127.7	27.2	156.1	27.8	148.9	19.9
	<b>Jun.</b>	128.4	17.6	167.8	13.1	158.1	9.3
	<b>Jul.</b>	130.4	5.7	165.4	15.6	135.9	5.1
	<b>Aug.</b>	133.1	7.0	174.1	23.5	151.1	-8.2
	<b>Sep.</b>	130.8	11.8	190.3	11.5	157.9	-0.5
	<b>Oct.</b>	135.0	12.6	187.7	4.8	136.3	-8.7
	<b>Nov.</b>	137.1	6.4	146.8	-4.3	129.5	-10.5
	<b>Dec.</b>	130.1	3.2	138.8	-14.2	142.1	-13.4
<b>2023</b>	<b>Jan.</b>	137.9	10.2	147.1	-8.3	135.5	-15.1
	<b>Feb.</b>	139.0	25.4	160.8	3.0	119.4	-4.8
	<b>Mar.</b>	129.4	3.1	176.1	5.1	114.4	-8.4
	<b>Apr.</b>	129.5	-1.3	168.0	-3.4	119.3	-15.6
	<b>May</b>	134.7	5.5	126.3	-19.1	143.9	-3.3
	<b>Jun.</b>	131.7	2.6	157.6	-6.0	131.4	-16.9
	<b>Jul.</b>	136.2	4.4	144.0	-13.0	115.5	-15.0
	<b>Aug.</b>	138.9	4.3	151.1	-13.2	150.2	-0.6

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

*Table 3: Manufacturing Indices at Industry Level (2015=100)*

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan alat-alat kuasa bendalir		Pembuatan pam, pemampat, kepala paip dan injap lain		Pembuatan penggalas, gear, elemen gear dan pemanduan	
		<i>Manufacture of fluid power equipment</i>		<i>Manufacture of other pumps, compressors, taps and valves</i>		<i>Manufacture of bearings, gears, gearing and driving elements</i>	
	<b>Kod/ Codes</b>	<b>28120</b>		<b>28130</b>		<b>28140</b>	
	<b>Wajaran/Weight 2015</b>	<b>0.00</b>		<b>0.14</b>		<b>0.05</b>	
2021		137.6	2.0	127.9	5.9	69.7	-18.7
2022		145.4	5.7	114.4	-10.5	62.3	-10.6
2022	Q1	142.2	5.3	117.1	-4.8	59.1	-31.4
	Q2	144.4	5.7	119.4	-8.6	64.6	-16.5
	Q3	146.5	6.4	108.5	-11.5	62.3	7.1
	Q4	148.6	5.3	112.7	-16.7	63.3	10.4
2023	Q1	149.6	5.2	92.3	-21.2	51.3	-13.3
	Q2	153.5	6.3	121.8	1.9	50.9	-21.2
2022	(Jan.-Aug.)	144.0	5.8	116.4	-7.1	61.6	-19.2
2023	(Jan.-Aug.)	151.2	5.0	107.3	-7.7	51.0	-17.1
2022	Jan.	141.6	4.2	116.4	-9.4	59.9	-27.0
	Feb.	142.3	5.9	110.6	-14.5	67.0	-36.4
	Mar.	142.8	5.9	124.2	11.5	50.4	-29.0
	Apr.	143.8	5.8	115.2	0.3	66.7	-7.8
	May	144.3	5.8	119.7	-18.0	62.2	-20.4
	Jun.	145.1	5.5	123.4	-5.9	64.9	-20.4
	Jul.	145.8	6.6	105.8	-8.0	60.3	-12.6
	Aug.	146.3	6.4	115.6	-8.1	61.2	21.1
	Sep.	147.3	6.4	104.2	-18.0	65.4	18.9
	Oct.	147.9	5.4	117.3	-17.0	57.6	-1.4
	Nov.	148.6	4.7	111.4	-20.0	64.2	11.8
	Dec.	149.3	5.9	109.5	-12.8	68.1	21.2
2023	Jan.	148.2	4.6	91.8	-21.1	54.9	-8.4
	Feb.	149.8	5.3	90.3	-18.3	52.7	-21.3
	Mar.	150.9	5.6	94.7	-23.8	46.2	-8.4
	Apr.	152.9	6.4	111.0	-3.7	44.8	-32.8
	May	153.5	6.4	144.6	20.8	55.3	-11.2
	Jun.	154.0	6.1	109.6	-11.1	52.7	-18.8
	Jul.	154.7	6.1	103.4	-2.2	51.0	-15.4
	Aug.	145.6	-0.5	113.2	-2.0	50.8	-17.1

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**  
 Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan kelengkapan mengangkat dan mengendali		Pembuatan alatan tangan yang menggunakan kuasa dilengkapi dengan motor elektrik atau bukan motor elektrik atau pneumatik		Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	
		<i>Manufacture of lifting and handling equipment</i>		<i>Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives</i>		<i>Manufacture of air-conditioning machines, including for motor vehicles</i>	
	<b>Kod/ Codes</b>	<b>28160</b>		<b>28180</b>		<b>28192</b>	
	<b>Wajaran/Weight 2015</b>	<b>0.08</b>		<b>0.06</b>		<b>0.66</b>	
<b>2021</b>		167.1	23.4	97.3	-13.4	157.4	26.0
<b>2022</b>		198.6	18.9	88.3	-9.3	174.6	11.0
<b>2022</b>	<b>Q1</b>	146.9	-3.0	88.8	-21.5	143.1	7.0
	<b>Q2</b>	227.1	13.6	106.6	23.6	199.8	1.2
	<b>Q3</b>	229.0	33.1	91.1	-8.9	210.1	28.3
	<b>Q4</b>	191.5	32.0	66.5	-25.8	145.4	8.1
<b>2023</b>	<b>Q1</b>	133.9	-8.8	77.7	-12.5	155.2	8.4
	<b>Q2</b>	192.6	-15.2	73.6	-31.0	210.4	5.3
<b>2022</b>	<b>(Jan.-Aug.)</b>	197.4	11.8	98.7	-2.8	184.9	10.5
<b>2023</b>	<b>(Jan.-Aug.)</b>	175.4	-11.2	76.1	-22.9	192.7	4.2
<b>2022</b>	<b>Jan.</b>	133.9	11.6	79.7	-28.7	132.8	6.1
	<b>Feb.</b>	156.8	-8.4	102.9	-24.9	142.8	17.6
	<b>Mar.</b>	149.9	-8.2	83.9	-7.5	153.8	-0.7
	<b>Apr.</b>	185.7	8.0	117.4	15.3	199.4	3.1
	<b>May</b>	240.9	3.4	102.8	33.9	168.1	-2.0
	<b>Jun.</b>	254.8	30.8	99.7	24.2	232.0	2.1
	<b>Jul.</b>	233.6	22.4	109.8	9.1	217.4	33.1
	<b>Aug.</b>	224.0	33.8	93.4	-17.7	232.9	28.1
	<b>Sep.</b>	229.4	45.4	70.2	-18.6	180.0	23.3
	<b>Oct.</b>	188.8	29.2	77.6	-20.2	131.1	-3.4
	<b>Nov.</b>	187.7	34.6	59.7	-31.1	159.7	17.4
	<b>Dec.</b>	198.1	32.4	62.1	-26.8	145.5	10.4
<b>2023</b>	<b>Jan.</b>	152.9	14.2	65.2	-18.2	125.8	-5.3
	<b>Feb.</b>	113.5	-27.6	82.8	-19.5	154.0	7.8
	<b>Mar.</b>	135.3	-9.8	85.2	1.5	185.7	20.8
	<b>Apr.</b>	116.8	-37.1	83.1	-29.2	207.1	3.9
	<b>May</b>	259.2	7.6	69.4	-32.5	195.8	16.5
	<b>Jun.</b>	201.8	-20.8	68.4	-31.4	228.2	-1.7
	<b>Jul.</b>	207.4	-11.2	77.5	-29.4	215.8	-0.7
	<b>Aug.</b>	216.6	-3.3	76.9	-17.7	228.9	-1.7

Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan jentera pembentukan logam dan alatan mesin		Pembuatan lain-lain mesin bertujuan khas t.t.t.l.		Pembuatan kereta penumpang	
		<i>Manufacture of metal-forming machinery and machine tools</i>		<i>Manufacture of other special- purpose machinery n.e.c.</i>		<i>Manufacture of passenger cars</i>	
		<b>Kod/ Codes</b>	<b>28220</b>	<b>28290</b>		<b>29101</b>	
		<b>Wajaran/Weight 2015</b>	<b>0.33</b>	<b>0.26</b>		<b>1.58</b>	
2021		107.6	-5.5	138.6	10.7	98.6	-1.3
2022		108.6	0.9	132.1	-4.7	136.8	38.7
2022	Q1	108.7	10.9	130.1	-6.1	126.7	5.0
	Q2	106.2	3.9	132.9	-10.6	155.9	54.9
	Q3	103.0	-11.5	132.7	-3.3	123.2	215.0
	Q4	116.5	2.4	132.6	2.0	141.5	5.5
2023	Q1	102.7	-5.5	132.3	1.6	155.5	22.7
	Q2	114.4	7.7	132.6	-0.2	147.7	-5.3
2022	(Jan.-Aug.)	106.6	3.7	132.0	-8.3	136.1	55.8
2023	(Jan.-Aug.)	107.0	0.4	135.0	2.3	146.0	7.2
2022	Jan.	111.6	16.9	124.0	6.6	127.9	7.9
	Feb.	107.5	12.2	137.3	-17.4	121.4	13.7
	Mar.	107.1	4.1	129.1	-3.2	130.9	-4.2
	Apr.	103.7	2.7	128.2	-10.3	169.5	1.5
	May	106.9	2.1	139.6	-9.5	147.8	11.0
	Jun.	108.0	7.1	131.0	-12.0	150.4	8367.3
	Jul.	101.6	-8.6	129.7	-8.6	110.2	1880.8
	Aug.	106.8	-3.8	136.9	-7.4	131.0	344.4
	Sep.	100.5	-20.9	131.6	8.0	128.4	56.0
	Oct.	130.1	10.4	127.4	-1.5	121.6	-11.5
	Nov.	110.5	-4.1	132.3	0.9	149.9	13.4
	Dec.	108.8	0.5	137.9	6.7	153.0	15.4
2023	Jan.	103.2	-7.5	131.8	6.3	156.6	22.5
	Feb.	104.0	-3.2	134.3	-2.1	144.7	19.2
	Mar.	100.9	-5.7	130.6	1.1	165.1	26.1
	Apr.	103.6	-0.1	130.1	1.5	125.5	-26.0
	May	119.7	12.0	133.8	-4.2	178.5	20.8
	Jun.	119.9	11.0	134.0	2.3	139.1	-7.5
	Jul.	99.4	-2.1	137.3	5.9	124.0	12.6
	Aug.	105.5	-1.2	148.1	8.1	134.4	2.5

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan alat ganti dan aksesori untuk kenderaan bermotor		Pembinaan kapal dan struktur terapung		Pembuatan pesawat dan kapal angkasa dan jentera berkaitan	
		<i>Manufacture of parts and accessories for motor vehicles</i>		<i>Building of ships and floating structures</i>		<i>Manufacture of air and spacecraft and related machinery</i>	
		Kod/ Codes	29300	30110		30300	
		Wajaran/Weight 2015	1.42	0.44		0.28	
2021		134.5	1.8	92.8	6.0	101.5	-4.5
2022		154.3	14.7	99.7	7.4	102.9	1.4
2022	Q1	164.9	3.9	98.0	8.5	115.4	-3.4
	Q2	158.6	20.9	84.4	7.9	90.0	1.0
	Q3	154.6	33.6	107.7	2.7	95.5	10.8
	Q4	138.9	4.9	108.7	11.1	110.5	-0.5
2023	Q1	165.3	0.3	102.9	5.1	101.1	-12.4
	Q2	167.8	5.8	99.3	17.7	74.6	-17.2
2022	(Jan.-Aug.)	162.1	17.2	92.6	7.0	98.6	0.3
2023	(Jan.-Aug.)	169.0	4.3	101.3	9.4	85.6	-13.2
2022	Jan.	156.3	2.4	100.3	3.5	123.6	2.0
	Feb.	160.9	7.7	94.7	10.9	111.7	-3.6
	Mar.	177.6	1.9	98.9	11.8	110.9	-8.7
	Apr.	157.8	9.2	80.2	9.3	109.1	0.9
	May	152.9	16.9	83.9	8.3	82.4	4.5
	Jun.	165.1	39.8	89.1	6.4	78.6	-2.2
	Jul.	161.0	36.3	78.2	14.0	68.9	5.2
	Aug.	165.0	39.5	115.4	-2.5	103.5	9.2
	Sep.	137.9	24.5	129.6	1.4	114.0	16.2
	Oct.	132.0	1.5	105.4	25.0	89.7	0.6
	Nov.	141.9	5.7	113.8	4.4	131.9	3.8
	Dec.	142.8	7.4	107.0	6.7	110.0	-6.1
2023	Jan.	160.5	2.7	103.8	3.5	110.7	-10.4
	Feb.	163.2	1.5	102.7	8.5	100.6	-9.9
	Mar.	172.4	-2.9	102.3	3.4	92.0	-17.1
	Apr.	153.7	-2.6	95.0	18.5	79.7	-27.0
	May	171.5	12.2	99.9	19.0	72.7	-11.8
	Jun.	178.2	8.0	103.1	15.7	71.4	-9.2
	Jul.	179.5	11.5	81.8	4.7	64.1	-7.0
	Aug.	172.9	4.8	121.8	5.6	94.0	-9.2

**Jadual 3: Indeks Pembuatan Peringkat Industri (2015=100)**

Table 3: Manufacturing Indices at Industry Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan motosikal		Pembuatan perabot kayu dan rotan		Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	
		<i>Manufacture of motorcycles</i>		<i>Manufacture of wooden and cane furniture</i>		<i>Repair and maintenance of transport equipment except motorcycles and bicycles</i>	
Kod/ Codes		30910		31001		33150	
Wajaran/Weight 2015		0.26		0.72		0.24	
2021		82.8	-2.6	117.0	-2.0	147.0	-8.8
2022		97.1	17.3	124.0	6.0	161.6	10.0
2022	Q1	97.9	-2.6	138.7	4.0	153.5	-8.2
	Q2	88.6	21.0	118.5	8.3	160.5	11.1
	Q3	96.1	60.8	110.5	22.4	166.9	24.7
	Q4	105.9	8.5	128.2	-5.0	165.5	16.2
2023	Q1	109.8	12.2	120.9	-12.8	177.6	15.7
	Q2	100.1	13.0	108.5	-8.5	191.2	19.1
2022	(Jan.-Aug.)	92.2	18.0	123.7	10.6	159.0	6.2
2023	(Jan.-Aug.)	103.9	12.7	112.2	-9.3	186.4	17.2
2022	Jan.	101.4	-0.3	140.8	5.9	150.7	-13.8
	Feb.	91.0	-0.5	132.0	-0.9	144.7	-9.4
	Mar.	101.2	-6.6	143.3	6.9	165.1	-1.0
	Apr.	90.5	3.0	124.0	10.0	167.5	4.9
	May	87.4	14.2	115.5	7.2	149.6	0.6
	Jun.	87.7	59.1	116.0	7.6	164.5	31.4
	Jul.	80.3	81.8	111.3	35.1	166.6	31.1
	Aug.	97.6	64.0	107.0	26.4	163.0	20.8
	Sep.	110.4	45.9	113.3	9.1	171.1	22.7
	Oct.	101.9	12.4	117.5	-7.5	170.6	29.0
	Nov.	108.8	7.7	135.3	-2.7	183.0	11.6
	Dec.	107.1	5.7	132.0	-5.0	142.9	9.0
2023	Jan.	105.8	4.3	129.0	-8.4	171.7	13.9
	Feb.	108.9	19.7	120.7	-8.6	171.4	18.5
	Mar.	114.7	13.3	113.1	-21.1	189.7	14.9
	Apr.	99.4	9.8	102.5	-17.3	206.9	23.6
	May	100.9	15.4	117.9	2.1	174.6	16.7
	Jun.	100.0	14.0	105.0	-9.5	192.1	16.7
	Jul.	92.6	15.2	106.0	-4.8	194.4	16.7
	Aug.	108.9	11.6	103.4	-3.4	190.1	16.6

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan minyak dan lemak daripada sayuran dan haiwan		Pembuatan produk tenusu		Pembuatan produk bijian, kanji dan produk berkanji	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		<i>Manufacture of vegetable and animal oils and fats</i>		<i>Manufacture of dairy products</i>		<i>Manufacture of grain mill products, starches and starch products</i>	
		<b>Kod/Codes</b>	<b>104</b>	<b>105</b>	<b>106</b>		
		<b>Wajaran/Weight 2015</b>	<b>3.71</b>	<b>0.47</b>	<b>0.23</b>		
2021		99.1	-8.4	142.2	6.8	136.5	12.3
2022		97.3	-1.8	153.9	8.3	149.6	9.6
2022	Q1	83.1	0.4	135.4	4.9	138.0	4.3
	Q2	90.8	-9.2	162.5	9.5	143.6	7.4
	Q3	106.7	-0.1	173.3	11.5	164.8	20.9
	Q4	108.5	1.8	144.4	6.3	152.0	5.7
2023	Q1	94.5	13.8	125.7	-7.2	155.4	12.6
	Q2	91.4	0.7	150.0	-7.7	137.6	-4.2
2022	(Jan.-Aug.)	90.8	-3.2	154.1	8.8	144.3	10.1
2023	(Jan.-Aug.)	95.2	4.8	150.0	-2.6	147.7	2.3
2022	Jan.	85.9	0.3	151.7	3.6	135.7	5.5
	Feb.	75.3	7.6	112.4	-1.7	136.2	8.4
	Mar.	88.1	-4.9	142.1	12.4	142.2	-0.3
	Apr.	87.9	-7.8	171.0	10.2	149.4	-3.2
	May	87.4	-6.7	165.7	16.1	135.8	13.3
	Jun.	97.0	-12.5	151.0	2.6	145.8	14.9
	Jul.	98.6	-2.3	153.8	10.5	137.0	23.2
	Aug.	106.6	5.0	184.8	14.4	172.8	23.6
	Sep.	115.0	-2.7	181.2	9.6	184.6	16.9
	Oct.	117.9	-1.4	158.8	29.0	149.3	1.7
	Nov.	107.2	0.6	147.8	10.7	154.6	13.6
	Dec.	100.5	7.1	126.6	-16.1	152.1	2.4
2023	Jan.	93.0	8.3	125.4	-17.3	149.7	10.3
	Feb.	89.2	18.3	122.5	8.9	150.5	10.5
	Mar.	101.4	15.2	129.1	-9.1	166.1	16.8
	Apr.	82.1	-6.7	134.2	-21.5	139.7	-6.5
	May	98.7	13.0	152.4	-8.0	139.1	2.4
	Jun.	93.4	-3.7	163.4	8.2	134.2	-8.0
	Jul.	96.4	-2.3	180.6	17.4	138.9	1.4
	Aug.	107.5	0.9	192.2	4.0	163.3	-5.5

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun Year	Tempoh Period	Pembuatan produk makanan lain		Pembuatan minuman ringan		Pembuatan produk tembakau	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of other food products</i>		<i>Manufacture of beverages</i>		<i>Manufacture of tobacco products</i>	
Kod/Codes		107		110		120	
Wajaran/Weight 2015		1.85		0.65		0.52	
2021		137.8	6.6	119.4	9.9	83.6	-12.4
2022		144.9	5.1	135.3	13.3	102.2	22.1
2022	Q1	140.5	5.9	125.1	7.6	127.6	4.1
	Q2	144.7	5.7	137.7	22.5	104.2	49.8
	Q3	152.7	6.9	137.6	23.2	71.4	234.5
	Q4	141.8	2.1	140.7	2.4	105.4	-13.0
2023	Q1	146.7	4.4	123.2	-1.5	147.4	15.5
	Q2	148.9	2.9	140.4	2.0	125.2	20.2
2022	(Jan.-Aug.)	145.0	6.1	132.4	18.5	104.1	43.3
2023	(Jan.-Aug.)	150.2	3.6	133.0	0.5	121.9	17.1
2022	Jan.	145.1	11.0	129.4	7.7	123.7	1.3
	Feb.	136.3	1.3	121.0	8.1	137.1	9.2
	Mar.	140.2	5.4	125.0	7.1	122.2	1.7
	Apr.	145.7	5.6	150.6	10.7	118.6	11.8
	May	141.0	4.2	129.6	9.9	104.0	4.6
	Jun.	147.3	7.3	132.7	60.0	90.0	2765.0
	Jul.	151.0	6.3	132.8	50.9	67.8	2699.2
	Aug.	153.2	8.0	137.8	14.9	69.5	2813.6
	Sep.	153.9	6.4	142.1	11.8	77.0	30.0
	Oct.	143.6	3.0	138.7	1.1	85.1	-28.1
	Nov.	140.6	1.4	140.1	5.4	119.9	1.6
	Dec.	141.2	1.8	143.4	0.7	111.1	-12.4
2023	Jan.	142.1	-2.0	127.2	-1.6	147.9	19.5
	Feb.	150.0	10.0	118.2	-2.3	142.4	3.9
	Mar.	147.9	5.5	124.2	-0.7	151.9	24.4
	Apr.	141.5	-2.9	142.4	-5.5	126.2	6.4
	May	152.9	8.5	143.9	11.1	141.6	36.2
	Jun.	152.2	3.3	134.9	1.6	107.9	19.9
	Jul.	161.7	7.1	135.3	1.9	79.4	17.2
	Aug.	153.4	0.1	138.2	0.2	77.9	12.1

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun <i>Year</i>	Tempoh <i>Period</i>	% Perubahan tahun ke tahun/ <i>change year-on-year</i>		% Perubahan tahun ke tahun/ <i>change year-on-year</i>		% Perubahan tahun ke tahun/ <i>change year-on-year</i>	
		Indeks/ <i>Index</i>	Indeks/ <i>Index</i>	Indeks/ <i>Index</i>	Indeks/ <i>Index</i>	Indeks/ <i>Index</i>	Indeks/ <i>Index</i>
		Pemintalan, penenunan dan penyiapan tekstil	Pembuatan pakaian, kecuali pakaian berbulu	Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu			
		<i>Spinning, weaving and finishing of textiles</i>	<i>Manufacture of wearing apparel, except fur apparel</i>	<i>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur</i>			
Kod/Codes		131	141	151			
Wajaran/Weight 2015		0.40	0.58	0.06			
2021		114.0	17.6	121.6	1.4	143.6	20.2
2022		119.9	5.1	123.8	1.8	191.5	33.3
2022	Q1	128.4	5.6	137.6	4.1	199.3	8.3
	Q2	110.1	2.1	99.0	6.3	211.9	27.7
	Q3	119.4	10.2	110.4	3.3	188.0	151.2
	Q4	121.6	2.8	148.1	-3.9	167.0	11.5
2023	Q1	120.1	-6.5	141.0	2.5	204.1	2.4
	Q2	99.7	-9.5	108.1	9.2	235.5	11.2
2022	(Jan.-Aug.)	117.6	6.1	114.8	5.1	200.7	35.5
2023	(Jan.-Aug.)	106.9	-9.1	121.0	5.4	214.9	7.1
2022	Jan.	124.5	9.1	137.1	2.6	195.6	5.5
	Feb.	126.5	3.8	132.6	3.3	189.3	10.1
	Mar.	134.3	4.1	143.0	6.5	213.1	9.3
	Apr.	103.9	0.0	108.3	6.8	205.1	1.0
	May	107.3	1.5	93.9	5.4	229.1	11.9
	Jun.	119.1	4.8	94.8	6.6	201.5	124.3
	Jul.	111.8	15.8	98.9	9.3	172.4	180.9
	Aug.	113.6	11.8	109.8	2.0	199.7	170.7
	Sep.	132.7	4.7	122.5	-0.1	191.8	114.7
	Oct.	120.5	6.8	136.0	-8.6	137.2	19.2
	Nov.	132.8	3.9	155.6	-0.1	181.3	20.6
	Dec.	111.4	-2.5	152.7	-3.3	182.4	-0.8
2023	Jan.	116.6	-6.4	134.6	-1.9	198.3	1.4
	Feb.	116.0	-8.4	139.9	5.5	191.0	0.9
	Mar.	127.7	-4.8	148.5	3.8	223.0	4.7
	Apr.	91.8	-11.7	113.8	5.1	227.2	10.8
	May	102.1	-4.8	103.2	9.9	274.4	19.8
	Jun.	105.1	-11.8	107.4	13.3	205.0	1.8
	Jul.	98.5	-11.9	106.7	7.8	188.7	9.5
	Aug.	97.9	-13.9	114.0	3.8	211.4	5.9

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun Year	Tempoh Period	Pembuatan kasut		Pengilangan dan pengetaman kayu		Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		<i>Manufacture of footwear</i>		<i>Sawmilling and planning of wood</i>		<i>Manufacture of products of wood, cork, straw and plaiting materials</i>	
Kod/Codes		152		161		162	
Wajaran/Weight 2015		0.09		0.35		1.09	
2021		96.0	3.8	124.5	13.6	110.2	7.7
2022		113.0	17.7	134.6	8.1	117.0	6.2
2022	Q1	104.9	-4.2	138.8	9.0	127.6	9.4
	Q2	110.6	14.4	114.5	25.7	119.0	7.8
	Q3	111.3	42.8	142.0	5.6	107.7	25.4
	Q4	125.1	25.4	143.0	-1.3	113.7	-11.0
2023	Q1	119.9	14.2	143.2	3.1	111.3	-12.7
	Q2	118.7	7.3	103.4	-9.7	114.7	-3.6
2022	(Jan.-Aug.)	108.5	13.1	130.0	15.9	118.5	12.9
2023	(Jan.-Aug.)	118.0	8.7	125.3	-3.6	110.7	-6.6
2022	Jan.	105.2	-2.5	133.7	11.3	131.0	11.3
	Feb.	101.6	-2.6	142.9	5.5	123.5	7.2
	Mar.	108.0	-7.3	139.7	10.7	128.3	9.7
	Apr.	111.7	-0.4	106.7	15.2	121.2	5.9
	May	110.2	3.6	114.6	33.1	118.9	3.8
	Jun.	110.0	53.7	122.2	29.3	116.8	14.3
	Jul.	113.2	59.8	117.9	43.2	111.2	42.1
	Aug.	108.5	39.3	162.5	1.5	97.4	20.5
	Sep.	112.3	31.9	145.5	-9.6	114.7	16.1
	Oct.	119.9	23.0	138.9	1.7	116.5	-0.5
	Nov.	125.6	24.1	145.7	-8.0	112.8	-13.1
	Dec.	129.7	28.9	144.5	3.3	111.7	-18.1
2023	Jan.	120.7	14.7	132.7	-0.8	106.1	-19.0
	Feb.	115.1	13.3	150.3	5.1	117.0	-5.3
	Mar.	123.8	14.6	146.5	4.9	111.0	-13.5
	Apr.	119.6	7.1	122.6	14.9	100.8	-16.8
	May	117.7	6.9	88.3	-23.0	125.1	5.2
	Jun.	118.8	7.9	99.3	-18.7	118.1	1.1
	Jul.	120.4	6.4	127.4	8.0	103.2	-7.2
	Aug.	108.2	-0.2	135.4	-16.7	104.2	7.0

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun <i>Year</i>	Tempoh <i>Period</i>	Pembuatan kertas dan produk kertas		Percetakan dan aktiviti perkhidmatan berkaitan percetakan		Pembuatan produk petroleum bertapis	
		<i>Manufacture of paper and paper products</i>	<i>Printing and service activities related to printing</i>	<i>Manufacture of refined petroleum products</i>			
<b>Kod/Codes</b>		<b>170</b>		<b>181</b>		<b>192</b>	
<b>Wajaran/Weight 2015</b>		<b>1.15</b>		<b>0.92</b>		<b>9.36</b>	
<b>2021</b>		133.8	14.9	116.6	3.1	112.9	11.6
<b>2022</b>		143.9	7.5	124.6	6.9	120.0	6.3
<b>2022</b>	<b>Q1</b>	142.0	8.6	121.8	1.9	118.6	4.3
	<b>Q2</b>	132.5	8.7	119.8	11.8	110.7	4.5
	<b>Q3</b>	149.4	11.9	118.7	8.6	128.4	11.1
	<b>Q4</b>	151.5	1.7	138.3	5.9	122.3	5.1
<b>2023</b>	<b>Q1</b>	147.3	3.7	126.2	3.7	128.0	7.9
	<b>Q2</b>	136.9	3.3	127.7	6.6	108.7	-1.8
<b>2022</b>	<b>(Jan.-Aug.)</b>	138.6	9.7	119.2	7.2	118.6	5.7
<b>2023</b>	<b>(Jan.-Aug.)</b>	143.2	3.3	126.4	6.1	118.5	-0.1
<b>2022</b>	<b>Jan.</b>	149.2	14.6	127.7	1.5	111.8	2.0
	<b>Feb.</b>	138.8	6.2	120.9	1.0	114.1	-1.4
	<b>Mar.</b>	138.1	4.9	116.7	3.5	129.9	12.3
	<b>Apr.</b>	132.3	8.0	126.4	8.5	92.4	-1.0
	<b>May</b>	122.6	7.4	120.3	8.6	109.1	2.0
	<b>Jun.</b>	142.6	10.5	112.6	19.6	130.5	11.0
	<b>Jul.</b>	139.9	14.0	108.9	10.3	129.6	5.7
	<b>Aug.</b>	145.6	12.2	119.9	8.4	131.2	12.8
	<b>Sep.</b>	162.6	9.9	127.4	7.3	124.5	15.4
	<b>Oct.</b>	143.4	2.5	126.5	5.4	127.1	10.6
	<b>Nov.</b>	155.2	0.3	136.9	8.8	123.2	1.6
	<b>Dec.</b>	156.0	2.4	151.6	3.8	116.7	3.4
<b>2023</b>	<b>Jan.</b>	152.5	2.2	131.0	2.6	124.2	11.0
	<b>Feb.</b>	146.6	5.6	126.8	4.9	121.5	6.5
	<b>Mar.</b>	142.8	3.4	120.9	3.6	138.2	6.4
	<b>Apr.</b>	134.1	1.4	130.4	3.2	93.8	1.6
	<b>May</b>	131.1	6.9	131.2	9.0	115.7	6.1
	<b>Jun.</b>	145.5	2.1	121.4	7.9	116.4	-10.8
	<b>Jul.</b>	142.3	1.7	117.9	8.3	116.5	-10.1
	<b>Aug.</b>	150.4	3.3	131.8	10.0	121.3	-7.5

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer		Pembuatan produk kimia lain		Pembuatan produk farmaseutikal, kimia perubatan dan botani	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
Kod/Codes		201		202		210	
Wajaran/Weight 2015		4.96		1.38		0.38	
2021		121.4	10.4	113.2	5.6	159.9	15.7
2022		128.3	5.7	110.8	-2.1	169.7	6.1
2022	Q1	129.6	3.9	112.2	5.3	156.2	9.9
	Q2	123.7	9.2	107.6	-3.5	162.7	4.9
	Q3	128.0	6.6	112.9	-4.1	185.6	7.0
	Q4	131.9	3.6	110.6	-5.5	174.3	3.0
2023	Q1	134.5	3.8	110.5	-1.5	165.3	5.8
	Q2	131.0	5.9	108.1	0.4	163.1	0.2
2022	(Jan.-Aug.)	127.0	6.4	109.9	-0.5	165.3	7.8
2023	(Jan.-Aug.)	134.0	5.5	111.4	1.4	166.9	1.0
2022	Jan.	125.9	6.8	114.8	7.8	150.8	20.0
	Feb.	131.2	5.4	106.7	0.9	155.2	5.4
	Mar.	131.6	-0.3	115.1	7.2	162.7	6.0
	Apr.	119.2	13.0	108.2	-0.7	159.9	6.7
	May	114.1	11.1	105.0	-2.0	154.9	3.7
	Jun.	137.8	4.6	109.6	-7.5	173.4	4.4
	Jul.	123.2	5.5	107.0	-1.8	180.8	9.5
	Aug.	132.5	7.6	112.3	-6.2	184.9	8.6
	Sep.	128.2	6.6	119.3	-4.2	191.1	3.4
	Oct.	129.1	2.0	111.4	-6.8	181.9	2.4
	Nov.	129.0	7.0	109.5	-3.3	165.0	1.8
	Dec.	137.8	2.0	110.8	-6.1	175.9	4.9
2023	Jan.	128.5	2.1	110.8	-3.5	155.9	3.4
	Feb.	134.5	2.5	111.0	4.0	169.3	9.0
	Mar.	140.5	6.7	109.9	-4.5	170.8	5.0
	Apr.	123.2	3.3	100.2	-7.4	163.9	2.5
	May	121.1	6.2	111.0	5.7	160.1	3.3
	Jun.	148.7	7.9	112.9	3.0	165.3	-4.6
	Jul.	131.8	7.0	116.3	8.7	174.0	-3.8
	Aug.	143.3	8.2	118.8	5.7	176.2	-4.7

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun Year	Tempoh Period	Pembuatan produk getah		Pembuatan produk plastik		Pembuatan kaca dan produk kaca	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of rubber products</i>		<i>Manufacture of plastics products</i>		<i>Manufacture of glass and glass products</i>	
Kod/Codes		221		222		231	
Wajaran/Weight 2015		2.22		2.26		0.38	
2021		227.2	23.2	130.6	12.1	103.0	-14.8
2022		188.8	-16.9	134.2	2.8	111.1	7.8
2022	Q1	187.7	-21.9	129.5	5.4	111.8	14.0
	Q2	204.7	-22.0	128.0	4.5	103.1	21.5
	Q3	190.3	-12.5	145.7	5.5	113.2	10.4
	Q4	172.6	-8.5	133.7	-3.9	116.3	-8.2
2023	Q1	174.4	-7.0	117.9	-9.0	100.6	-10.0
	Q2	179.7	-12.2	123.6	-3.4	94.7	-8.1
2022	(Jan.-Aug.)	195.9	-20.1	133.3	5.2	109.0	17.2
2023	(Jan.-Aug.)	177.6	-9.3	126.8	-4.9	102.0	-6.4
2022	Jan.	184.0	-19.7	133.4	7.1	110.1	8.3
	Feb.	169.8	-20.6	131.8	5.0	104.6	15.1
	Mar.	209.1	-24.7	123.4	4.1	120.7	18.8
	Apr.	217.6	-19.2	120.7	8.6	104.9	14.4
	May	193.2	-23.0	116.2	2.4	101.3	19.0
	Jun.	203.2	-23.9	147.1	3.1	103.2	32.8
	Jul.	195.9	-17.5	147.6	6.2	112.4	31.2
	Aug.	194.5	-10.6	145.9	5.6	114.8	4.9
	Sep.	180.5	-8.6	143.5	4.9	112.3	-0.2
	Oct.	180.2	-8.4	135.7	1.4	121.9	-6.5
	Nov.	161.8	-9.0	138.8	-3.2	113.6	-9.8
	Dec.	175.7	-8.1	126.6	-9.7	113.2	-8.4
2023	Jan.	167.8	-8.8	117.5	-11.9	99.1	-10.0
	Feb.	159.1	-6.3	120.8	-8.3	100.0	-4.4
	Mar.	196.4	-6.1	115.4	-6.4	102.6	-15.0
	Apr.	181.8	-16.5	109.5	-9.3	96.7	-7.8
	May	174.6	-9.7	120.2	3.5	93.1	-8.1
	Jun.	182.7	-10.1	141.1	-4.1	94.3	-8.5
	Jul.	178.3	-9.0	145.2	-1.6	101.1	-10.0
	Aug.	180.4	-7.3	144.3	-1.1	129.0	12.3

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan pengeluaran galian bukan logam t.t.t.l.		Pembuatan besi dan keluli asas		Pembuatan logam asas berharga dan logam bukan ferus lain	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		<i>Manufacture of non-metallic mineral products n.e.c.</i>		<i>Manufacture of basic iron and steel</i>		<i>Manufacture of basic precious and other non-ferrous metals</i>	
Kod/Codes		<b>239</b>		<b>241</b>		<b>242</b>	
Wajaran/Weight 2015		<b>2.60</b>		<b>1.47</b>		<b>0.71</b>	
2021		104.3	3.8	114.5	1.0	112.7	5.8
2022		114.1	9.3	122.2	6.8	121.0	7.3
2022	Q1	126.2	5.1	121.8	5.9	127.7	9.8
	Q2	98.0	12.7	114.0	10.1	117.3	12.5
	Q3	103.4	20.4	122.5	9.4	117.1	14.9
	Q4	128.6	3.4	130.5	2.5	121.7	-5.2
2023	Q1	132.9	5.3	129.3	6.1	117.8	-7.8
	Q2	102.5	4.6	126.2	10.7	108.6	-7.4
2022	(Jan.-Aug.)	109.1	11.8	118.1	9.5	120.9	13.8
2023	(Jan.-Aug.)	114.1	4.6	125.1	5.9	116.6	-3.6
2022	Jan.	132.9	5.1	124.2	7.3	129.5	5.4
	Feb.	122.1	5.0	116.3	2.4	128.4	9.8
	Mar.	123.5	5.0	125.0	8.0	125.2	14.8
	Apr.	111.6	6.7	122.6	5.6	118.8	6.7
	May	90.2	4.3	110.9	6.3	117.0	10.2
	Jun.	92.2	32.1	108.6	20.2	115.9	21.8
	Jul.	91.3	35.4	110.4	21.7	112.3	30.4
	Aug.	108.5	18.7	126.9	9.0	120.2	17.7
	Sep.	110.4	11.8	130.1	1.1	119.0	1.0
	Oct.	123.7	5.1	131.1	6.3	122.4	-7.0
	Nov.	127.1	1.6	133.9	3.0	123.1	-1.3
	Dec.	135.1	3.7	126.5	-1.7	119.7	-7.1
2023	Jan.	136.2	2.4	120.9	-2.7	115.6	-10.7
	Feb.	129.9	6.4	129.8	11.6	119.5	-6.9
	Mar.	132.5	7.2	137.2	9.7	118.3	-5.6
	Apr.	115.0	3.1	129.8	5.8	115.5	-2.8
	May	95.3	5.6	129.9	17.1	101.4	-13.3
	Jun.	97.3	5.5	118.9	9.5	108.8	-6.1
	Jul.	96.2	5.3	110.2	-0.2	121.3	8.0
	Aug.	110.7	2.0	123.9	-2.3	132.4	10.2

Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	% Perubahan tahun ke tahun/ change year-on-year		% Perubahan tahun ke tahun/ change year-on-year		% Perubahan tahun ke tahun/ change year-on-year	
		Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index
		Pembuatan produk struktur logam, tangki, takungan dan penjana wap; Pembuatan senjata dan peluru		Pembuatan produk lain yang direka daripada logam; aktiviti perkhidmatan kerja logam		Pembuatan komponen dan papan elektronik	
		<i>Manufacture of structural metal products, tanks, reservoirs and steam generators; Manufacture of weapons and ammunition</i>		<i>Manufacture of other fabricated metal products; metal working service activities</i>		<i>Manufacture of electronic components and boards</i>	
Kod/Codes		251 & 252		259		261	
Wajaran/Weight 2015		1.39		2.40		7.68	
2021		115.7	4.5	103.0	7.5	167.0	16.6
2022		54.8	-52.7	109.7	6.4	198.8	19.0
2022	Q1	79.9	-35.5	113.8	3.5	168.2	20.0
	Q2	42.5	-57.5	102.4	7.4	199.9	18.9
	Q3	43.9	-57.7	106.1	12.6	209.5	23.0
	Q4	52.8	-61.0	116.4	3.3	217.5	14.7
2023	Q1	56.2	-29.7	111.8	-1.8	175.1	4.1
	Q2	48.4	13.9	105.4	2.9	188.0	-5.9
2022	(Jan.-Aug.)	56.6	-47.9	105.9	7.6	189.5	20.4
2023	(Jan.-Aug.)	50.1	-11.5	108.7	2.7	182.9	-3.4
2022	Jan.	145.6	13.1	129.2	2.9	174.5	19.0
	Feb.	45.4	-62.7	104.4	9.3	151.2	17.4
	Mar.	48.7	-59.7	107.9	-0.7	178.9	23.4
	Apr.	42.4	-59.5	101.6	-0.5	177.5	14.7
	May	41.8	-59.6	101.7	0.8	186.0	18.5
	Jun.	43.2	-53.0	104.0	25.1	236.2	22.7
	Jul.	41.6	-56.9	97.0	21.4	201.2	23.0
	Aug.	44.0	-56.2	101.6	11.1	210.1	23.3
	Sep.	46.1	-59.8	119.8	7.7	217.2	22.8
	Oct.	48.9	-63.6	122.9	8.0	218.1	16.3
	Nov.	52.7	-62.9	117.0	3.7	222.5	17.1
	Dec.	56.8	-56.2	109.2	-1.9	211.8	10.7
2023	Jan.	59.5	-59.2	122.4	-5.3	191.6	9.8
	Feb.	54.3	19.5	105.1	0.7	155.6	2.9
	Mar.	54.8	12.4	107.9	0.0	178.0	-0.5
	Apr.	48.9	15.2	98.7	-2.9	166.9	-6.0
	May	48.8	16.7	109.7	7.8	180.2	-3.1
	Jun.	47.5	9.9	107.9	3.8	217.0	-8.1
	Jul.	42.9	3.1	105.3	8.6	190.9	-5.1
	Aug.	44.3	0.7	112.8	11.0	183.3	-12.8

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan komputer dan kelengkapan peranti		Pembuatan peralatan komunikasi		Pembuatan peralatan elektronik pengguna	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of computers and peripheral equipment</i>		<i>Manufacture of communication equipment</i>		<i>Manufacture of consumer electronics</i>	
<b>Kod/Codes</b>		<b>262</b>		<b>263</b>		<b>264</b>	
<b>Wajaran/Weight 2015</b>		<b>1.82</b>		<b>0.91</b>		<b>2.43</b>	
<b>2021</b>		118.6	13.9	97.2	-12.6	155.9	24.3
<b>2022</b>		125.4	5.7	95.4	-1.9	183.0	17.4
<b>2022</b>	<b>Q1</b>	115.5	9.9	98.2	-8.6	169.3	22.1
	<b>Q2</b>	135.2	9.4	88.6	9.1	157.2	30.7
	<b>Q3</b>	138.2	10.2	97.6	1.1	202.4	14.2
	<b>Q4</b>	112.8	-6.4	97.2	-6.2	203.0	8.3
<b>2023</b>	<b>Q1</b>	106.3	-8.0	106.5	8.4	183.9	8.6
	<b>Q2</b>	123.2	-8.9	110.7	24.9	173.2	10.2
<b>2022</b>	<b>(Jan.-Aug.)</b>	129.8	9.8	94.9	0.3	168.9	24.3
<b>2023</b>	<b>(Jan.-Aug.)</b>	127.4	-1.9	113.5	19.5	180.4	6.8
<b>2022</b>	<b>Jan.</b>	119.9	13.6	107.9	-16.2	207.0	20.8
	<b>Feb.</b>	105.6	10.2	95.1	-12.9	146.9	16.3
	<b>Mar.</b>	121.0	6.3	91.7	8.5	153.9	30.4
	<b>Apr.</b>	134.1	12.1	83.4	14.3	149.9	35.0
	<b>May</b>	115.0	6.0	90.4	16.2	152.8	35.7
	<b>Jun.</b>	156.4	9.8	92.1	-0.8	168.8	23.2
	<b>Jul.</b>	142.9	8.9	97.7	-9.3	168.0	18.5
	<b>Aug.</b>	143.5	11.8	101.2	20.8	204.1	20.9
	<b>Sep.</b>	128.1	9.8	93.8	-4.3	235.1	6.2
	<b>Oct.</b>	124.6	-7.4	97.4	-11.0	199.6	5.1
	<b>Nov.</b>	108.6	-2.6	87.5	-13.8	208.7	15.9
	<b>Dec.</b>	105.1	-9.0	106.6	6.6	200.9	4.2
<b>2023</b>	<b>Jan.</b>	103.6	-13.6	101.3	-6.1	171.1	-17.4
	<b>Feb.</b>	99.9	-5.4	108.4	13.9	179.1	21.9
	<b>Mar.</b>	115.5	-4.6	109.8	19.7	201.4	30.9
	<b>Apr.</b>	121.8	-9.2	97.9	17.3	172.6	15.2
	<b>May</b>	107.6	-6.4	115.0	27.2	166.9	9.2
	<b>Jun.</b>	140.2	-10.3	119.3	29.6	180.2	6.8
	<b>Jul.</b>	167.4	17.1	127.1	30.2	150.6	-10.3
	<b>Aug.</b>	163.3	13.8	129.0	27.5	221.0	8.3

Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam		Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik		Pembuatan instrumen optikal dan kelengkapan fotografi	
		<i>Manufacture of measuring, testing, navigating and control equipment; watches and clocks</i>		<i>Manufacture of irradiation, electromedical and electrotherapeutic equipment</i>		<i>Manufacture of optical instruments and photographic equipment</i>	
		Kod/Codes	265	266	267		
		Wajaran/Weight 2015	0.55	0.40	0.09		
2021		131.6	12.2	132.6	9.2	84.6	-5.3
2022		151.7	15.3	144.8	9.2	74.4	-12.1
2022	Q1	128.2	6.0	130.4	5.3	77.4	-7.1
	Q2	143.5	14.7	135.0	-3.4	78.4	-3.6
	Q3	163.1	21.7	160.5	21.3	78.0	-16.2
	Q4	171.9	17.6	153.2	14.0	63.7	-21.0
2023	Q1	153.3	19.6	128.8	-1.2	67.4	-13.0
	Q2	149.6	4.2	144.9	7.3	73.0	-6.8
2022	(Jan.-Aug.)	141.9	13.3	139.7	5.2	78.4	-8.6
2023	(Jan.-Aug.)	155.6	9.6	145.1	3.9	72.1	-8.0
2022	Jan.	130.6	23.2	127.9	11.0	76.1	-18.7
	Feb.	124.6	3.5	128.8	8.1	76.2	-11.5
	Mar.	129.5	6.7	134.6	-1.8	80.0	13.7
	Apr.	128.4	17.1	117.8	-11.0	79.2	2.2
	May	137.9	17.2	126.0	-3.6	80.7	-1.3
	Jun.	164.3	11.0	161.2	3.1	75.3	-9.0
	Jul.	149.2	12.6	156.9	14.6	77.8	-13.0
	Aug.	170.9	30.2	164.2	22.4	81.9	-20.5
	Sep.	169.1	22.4	160.4	27.5	74.4	-14.4
	Oct.	157.1	14.3	162.1	12.3	69.8	-15.6
	Nov.	178.2	19.9	158.7	25.7	59.6	-20.1
	Dec.	180.3	18.3	138.7	4.7	61.8	-27.0
2023	Jan.	156.1	19.5	119.4	-6.7	63.6	-16.4
	Feb.	149.5	20.0	122.6	-4.8	66.0	-13.4
	Mar.	154.4	19.3	144.5	7.3	72.5	-9.4
	Apr.	131.1	2.1	108.5	-7.9	67.3	-15.0
	May	142.1	3.1	150.1	19.1	77.9	-3.4
	Jun.	175.5	6.8	176.0	9.2	73.9	-1.9
	Jul.	158.2	6.0	171.5	9.3	85.7	10.3
	Aug.	177.6	3.9	168.0	2.3	69.9	-14.7

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik		Pembuatan pendawaian dan peranti pendawaian		Pembuatan perkakasan domestik	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		<i>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus</i>		<i>Manufacture of wiring and wiring devices</i>		<i>Manufacture of domestic appliances</i>	
		<b>Kod/Codes</b>	<b>271</b>	<b>273</b>	<b>275</b>		
		<b>Wajaran/Weight 2015</b>	<b>0.65</b>	<b>0.50</b>	<b>0.47</b>		
2021		118.6	5.3	143.2	11.7	136.1	7.0
2022		119.9	1.1	161.1	12.5	142.6	4.8
2022	Q1	118.0	6.3	157.6	17.7	136.6	20.6
	Q2	123.4	1.2	161.8	24.4	149.5	17.1
	Q3	113.2	-2.9	171.0	15.4	148.3	-1.7
	Q4	125.1	0.2	154.0	-4.2	136.0	-11.0
2023	Q1	122.2	3.6	157.7	0.1	123.1	-9.9
	Q2	121.9	-1.2	147.9	-8.6	131.5	-12.0
2022	(Jan.-Aug.)	117.6	2.1	161.0	20.2	143.1	12.6
2023	(Jan.-Aug.)	116.5	-0.9	150.9	-6.2	128.7	-10.1
2022	Jan.	121.7	-2.2	157.8	8.4	159.5	23.2
	Feb.	106.1	6.7	152.1	16.2	125.4	15.1
	Mar.	126.2	15.7	163.1	30.0	124.9	23.3
	Apr.	126.8	5.7	169.2	36.8	141.5	23.9
	May	111.8	-4.5	152.6	26.5	148.9	19.9
	Jun.	131.7	2.1	163.5	12.0	158.1	9.3
	Jul.	110.8	-0.7	160.9	14.4	135.9	5.1
	Aug.	106.1	-4.3	168.5	21.7	151.1	-8.2
	Sep.	122.7	55.9	183.4	10.9	157.9	-0.5
	Oct.	130.0	0.8	181.6	4.7	136.3	-8.7
	Nov.	119.2	1.9	144.1	-4.5	129.5	-10.5
	Dec.	126.1	-1.9	136.4	-13.6	142.1	-13.4
2023	Jan.	121.1	-0.5	144.9	-8.2	135.5	-15.1
	Feb.	119.3	12.4	157.4	3.5	119.4	-4.8
	Mar.	126.4	0.2	170.9	4.8	114.4	-8.4
	Apr.	120.9	-4.6	162.8	-3.8	119.3	-15.6
	May	122.8	9.8	126.2	-17.3	143.9	-3.3
	Jun.	122.0	-7.4	154.6	-5.4	131.4	-16.9
	Jul.	106.7	-3.7	142.1	-11.7	115.5	-15.0
	Aug.	93.2	-12.1	148.2	-12.0	150.2	-0.6

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan jentera kegunaan umum		Pembuatan jentera kegunaan khas		Pembuatan kenderaan bermotor	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of general-purpose machinery</i>		<i>Manufacture of special-purpose machinery</i>		<i>Manufacture of motor vehicles</i>	
Kod/Codes		281		282		291	
Wajaran/Weight 2015		1.27		0.87		1.66	
2021		142.5	16.3	129.2	4.9	97.2	-0.6
2022		152.9	7.3	137.8	6.6	135.2	39.2
2022	Q1	132.1	2.2	127.4	7.6	125.5	5.0
	Q2	168.9	2.2	141.4	8.0	154.6	56.2
	Q3	173.3	20.0	138.0	5.6	121.8	215.9
	Q4	137.2	4.6	144.3	5.4	139.1	5.7
2023	Q1	136.7	3.5	132.7	4.1	153.0	21.9
	Q2	173.4	2.6	134.6	-4.9	145.9	-5.6
2022	(Jan.-Aug.)	158.3	6.8	135.5	7.6	135.0	56.4
2023	(Jan.-Aug.)	160.9	1.6	131.8	-2.8	144.1	6.8
2022	Jan.	125.1	1.3	129.7	13.6	126.0	7.7
	Feb.	132.7	4.8	125.7	3.6	121.3	12.8
	Mar.	138.3	0.8	127.0	6.0	129.1	-3.7
	Apr.	165.2	3.2	136.6	3.2	167.1	1.8
	May	153.5	-1.3	147.8	9.0	146.9	12.3
	Jun.	188.0	4.5	139.9	12.0	149.7	8389.5
	Jul.	177.5	20.6	134.1	7.6	109.1	1824.7
	Aug.	186.2	19.5	143.6	6.5	130.5	345.6
	Sep.	156.3	19.9	136.2	2.9	125.9	55.9
	Oct.	127.9	-1.7	138.3	3.3	118.8	-11.2
	Nov.	144.9	7.0	143.1	0.4	147.6	13.2
	Dec.	138.7	8.4	151.4	12.8	150.8	15.4
2023	Jan.	120.8	-3.5	140.1	8.0	153.7	22.0
	Feb.	136.5	2.8	128.3	2.1	143.7	18.4
	Mar.	152.8	10.5	129.8	2.2	161.4	25.0
	Apr.	164.3	-0.6	126.5	-7.4	123.2	-26.3
	May	173.4	12.9	142.0	-3.9	176.4	20.0
	Jun.	182.5	-2.9	135.3	-3.3	138.3	-7.6
	Jul.	173.0	-2.5	125.2	-6.7	122.6	12.3
	Aug.	184.0	-1.2	127.1	-11.5	133.9	2.6

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor		Pembinaan kapal dan bot		Pembuatan kapal angkasa dan udara dan jentera berkaitan	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		<i>Manufacture of parts and accessories for motor vehicles</i>		<i>Building of ships and boats</i>		<i>Manufacture of air and spacecraft and related machinery</i>	
	<b>Kod/Codes</b>	<b>293</b>		<b>301</b>		<b>303</b>	
	<b>Wajaran/Weight 2015</b>	<b>1.42</b>		<b>0.45</b>		<b>0.28</b>	
<b>2021</b>		134.5	1.8	93.2	5.6	101.5	-4.5
<b>2022</b>		154.3	14.7	100.5	7.8	102.9	1.4
<b>2022</b>	<b>Q1</b>	164.9	3.9	98.7	8.6	115.4	-3.4
	<b>Q2</b>	158.6	20.9	84.9	8.3	90.0	1.0
	<b>Q3</b>	154.6	33.6	108.3	3.6	95.5	10.8
	<b>Q4</b>	138.9	4.9	110.2	11.1	110.5	-0.5
<b>2023</b>	<b>Q1</b>	165.3	0.3	104.6	6.0	101.1	-12.4
	<b>Q2</b>	167.8	5.8	100.5	18.4	74.6	-17.2
<b>2022</b>	<b>(Jan.-Aug.)</b>	162.1	17.2	93.3	7.5	98.6	0.3
<b>2023</b>	<b>(Jan.-Aug.)</b>	169.0	4.3	102.8	10.3	85.6	-13.2
<b>2022</b>	<b>Jan.</b>	156.3	2.4	101.5	3.1	123.6	2.0
	<b>Feb.</b>	160.9	7.7	95.1	10.9	111.7	-3.6
	<b>Mar.</b>	177.6	1.9	99.6	12.5	110.9	-8.7
	<b>Apr.</b>	157.8	9.2	80.5	9.6	109.1	0.9
	<b>May</b>	152.9	16.9	84.2	8.3	82.4	4.5
	<b>Jun.</b>	165.1	39.8	90.0	7.1	78.6	-2.2
	<b>Jul.</b>	161.0	36.3	79.1	15.5	68.9	5.2
	<b>Aug.</b>	165.0	39.5	116.0	-1.3	103.5	9.2
	<b>Sep.</b>	137.9	24.5	129.7	1.8	114.0	16.2
	<b>Oct.</b>	132.0	1.5	106.2	23.8	89.7	0.6
	<b>Nov.</b>	141.9	5.7	115.4	4.8	131.9	3.8
	<b>Dec.</b>	142.8	7.4	108.9	7.4	110.0	-6.1
<b>2023</b>	<b>Jan.</b>	160.5	2.7	105.0	3.5	110.7	-10.4
	<b>Feb.</b>	163.2	1.5	104.4	9.8	100.6	-9.9
	<b>Mar.</b>	172.4	-2.9	104.4	4.9	92.0	-17.1
	<b>Apr.</b>	153.7	-2.6	95.9	19.1	79.7	-27.0
	<b>May</b>	171.5	12.2	100.7	19.6	72.7	-11.8
	<b>Jun.</b>	178.2	8.0	105.0	16.6	71.4	-9.2
	<b>Jul.</b>	179.5	11.5	83.8	5.9	64.1	-7.0
	<b>Aug.</b>	172.9	4.8	123.3	6.3	94.0	-9.2

Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	% Perubahan tahun ke tahun/ change year-on-year		% Perubahan tahun ke tahun/ change year-on-year		% Perubahan tahun ke tahun/ change year-on-year	
		Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index
		Pembuatan kelengkapan pengangkutan t.t.t.l.		Pembuatan perabot		Pembaikan pemasangan produk logam, jentera dan kelengkapan	
		<i>Manufacture of transport equipment n.e.c.</i>		<i>Manufacture of furniture</i>		<i>Repair of fabricated metal products, machinery and equipment</i>	
Kod/Codes		309		310		331	
Wajaran/Weight 2015		0.34		1.04		0.69	
2021		92.1	2.0	118.3	-3.7	122.5	0.2
2022		101.6	10.3	129.5	9.5	135.5	10.6
2022	Q1	104.3	1.1	151.7	6.3	134.7	5.7
	Q2	93.2	19.4	129.5	16.6	130.8	13.4
	Q3	100.3	23.0	113.0	32.1	133.3	20.1
	Q4	108.4	2.8	123.7	-7.5	143.2	5.1
2023	Q1	109.6	5.1	134.5	-11.3	142.3	5.7
	Q2	96.9	4.0	120.3	-7.1	140.3	7.3
2022	(Jan.-Aug.)	97.7	13.3	133.7	16.8	132.8	12.1
2023	(Jan.-Aug.)	101.9	4.3	122.8	-8.2	140.9	6.1
2022	Jan.	105.2	4.3	151.9	5.1	134.2	3.5
	Feb.	97.8	0.5	144.6	4.0	125.4	5.4
	Mar.	110.0	-1.4	158.5	9.7	144.4	8.1
	Apr.	95.5	6.1	137.6	16.7	135.6	11.0
	May	91.4	12.0	126.4	9.6	125.6	7.6
	Jun.	92.5	48.2	124.5	24.6	131.1	22.5
	Jul.	85.6	43.4	114.8	52.2	133.3	22.7
	Aug.	103.5	20.3	111.5	40.9	133.1	19.6
	Sep.	111.9	13.2	112.8	10.5	133.5	18.2
	Oct.	109.6	8.4	114.2	-6.7	146.5	6.5
	Nov.	108.6	-0.7	128.9	-7.3	150.9	0.7
	Dec.	107.1	1.2	128.1	-8.3	132.3	9.1
2023	Jan.	107.3	2.0	134.1	-11.7	144.3	7.6
	Feb.	106.7	9.1	133.0	-8.0	137.4	9.6
	Mar.	114.9	4.4	136.5	-13.9	145.1	0.5
	Apr.	98.1	2.7	115.5	-16.1	144.2	6.4
	May	96.0	5.0	126.7	0.2	134.8	7.3
	Jun.	96.6	4.4	118.6	-4.7	141.8	8.1
	Jul.	90.2	5.3	110.3	-3.9	140.1	5.1
	Aug.	105.8	2.2	107.6	-3.5	139.3	4.6

Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	% Perubahan tahun ke tahun/ change year-on-year		% Perubahan tahun ke tahun/ change year-on-year		% Perubahan tahun ke tahun/ change year-on-year		% Perubahan tahun ke tahun/ change year-on-year	
		Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index	Indeks/ Index
		Pemrosesan dan pengawetan daging	Pemrosesan dan pengawetan ikan, krustasea dan moluska	Pemrosesan dan pengawetan buah-buahan dan sayur-sayuran	Pembuatan makanan haiwan tersedia	Pembuatan makanan haiwan tersedia			
		<i>Processing and preserving of meat</i>	<i>Processing and preserving of fish, crustaceans and molluscs</i>	<i>Processing and preserving of fruit and vegetables</i>	<i>Manufacture of prepared animal feeds</i>	<i>Manufacture of prepared animal feeds</i>			
Kod/ Codes		101	102	103	103	103	103	108	108
Wajaran/Weight 2015		0.34	0.20	0.10	0.10	0.10	0.10	0.47	0.47
2021		185.1	23.5	117.2	-11.2	118.1	5.6	188.2	22.5
2022		218.7	18.2	113.2	-3.4	126.3	6.9	218.2	15.9
2022	Q1	177.9	20.6	113.4	-12.5	128.5	6.1	200.7	23.9
	Q2	238.0	23.4	117.5	-2.3	120.6	1.9	206.5	22.1
	Q3	240.0	16.3	112.5	2.5	124.5	8.3	244.3	6.8
	Q4	219.1	13.0	109.5	0.5	131.7	11.4	221.5	14.7
2023	Q1	183.3	3.0	130.9	15.4	120.1	-6.5	216.7	8.0
	Q2	225.9	-5.1	117.4	0.0	110.4	-8.5	255.7	23.8
2022	(Jan.-Aug.)	215.0	20.4	114.6	-5.7	124.5	5.2	213.6	18.4
2023	(Jan.-Aug.)	211.9	-1.4	122.1	6.5	116.0	-6.8	250.3	17.2
2022	Jan.	177.7	17.3	120.7	-11.7	134.3	2.7	217.2	24.8
	Feb.	158.3	19.2	113.4	-17.4	132.3	16.8	187.7	22.2
	Mar.	197.8	25.0	106.2	-7.7	118.8	-0.3	197.0	24.6
	Apr.	258.9	25.3	114.9	-0.7	122.6	2.7	205.6	22.5
	May	236.3	28.8	122.2	-1.2	116.8	5.1	209.0	20.0
	Jun.	218.7	16.1	115.3	-5.0	122.6	-1.6	204.9	23.9
	Jul.	234.9	24.4	105.2	-5.6	118.1	3.6	234.8	12.2
	Aug.	237.5	8.4	119.0	7.2	130.2	13.9	252.9	4.8
	Sep.	247.5	17.4	113.3	6.1	125.4	7.5	245.1	4.0
	Oct.	204.4	13.1	92.5	-7.3	129.3	9.8	197.0	9.8
	Nov.	221.2	18.5	122.8	9.9	129.3	11.0	212.3	15.8
	Dec.	231.7	8.3	113.3	-1.9	136.4	13.4	255.4	18.0
2023	Jan.	217.7	22.5	134.5	11.5	129.1	-3.9	233.0	7.3
	Feb.	176.9	11.8	134.4	18.5	114.8	-13.3	195.9	4.4
	Mar.	155.2	-21.6	123.7	16.5	116.5	-1.9	221.1	12.2
	Apr.	183.5	-29.1	113.9	-0.9	110.5	-9.8	258.8	25.8
	May	256.3	8.5	119.8	-1.9	110.4	-5.4	270.4	29.4
	Jun.	237.8	8.8	118.6	2.8	110.2	-10.1	237.8	16.0
	Jul.	201.1	-14.4	111.7	6.2	114.9	-2.7	277.8	18.3
	Aug.	266.6	12.3	119.9	0.8	121.7	-6.5	307.8	21.7

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun Year	Tempoh Period	Pembuatan tekstil lain		Pembuatan artikel daripada kulit bulu		Pembuatan pakaian yang dikait dan dikrusye	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of other textiles</i>		<i>Manufacture of articles of fur</i>		<i>Manufacture of knitted and crocheted apparel</i>	
Kod/ Codes		139		142		143	
Wajaran/Weight 2015		0.17		0.00		0.01	
2021		119.2	4.8	116.4	-10.7	138.9	12.1
2022		121.9	2.3	139.8	20.1	152.9	10.1
2022	Q1	131.9	9.1	125.7	9.7	147.9	11.4
	Q2	107.9	7.9	137.7	12.0	150.8	7.2
	Q3	116.7	4.4	137.9	39.5	154.6	12.2
	Q4	131.2	-8.8	157.8	22.2	158.1	9.6
2023	Q1	136.4	3.4	133.6	6.3	161.7	9.3
	Q2	119.7	10.9	171.6	24.6	165.7	9.9
2022	(Jan.-Aug.)	117.9	7.1	132.3	17.6	150.4	10.3
2023	(Jan.-Aug.)	127.2	7.9	153.1	15.7	165.0	9.7
2022	Jan.	125.5	6.8	134.4	13.3	146.7	14.0
	Feb.	130.4	12.9	118.5	11.7	147.9	10.6
	Mar.	139.6	7.8	124.1	4.2	149.0	9.7
	Apr.	111.7	14.2	129.6	12.2	149.4	8.1
	May	103.3	9.0	141.7	-4.2	150.7	7.8
	Jun.	108.8	1.1	141.9	34.4	152.3	5.7
	Jul.	108.9	0.1	133.2	35.9	153.1	17.3
	Aug.	114.9	5.1	134.7	51.7	154.1	10.0
	Sep.	126.3	7.6	145.9	32.9	156.8	9.7
	Oct.	125.5	-9.4	134.8	5.3	157.0	9.7
	Nov.	132.0	-17.5	173.5	24.2	158.2	9.6
	Dec.	136.0	2.2	165.0	38.1	159.3	9.5
2023	Jan	124.6	-0.7	146.5	9.0	160.5	9.4
	Feb	141.0	8.1	106.9	-9.8	161.7	9.3
	Mar	143.5	2.8	147.4	18.7	162.9	9.3
	Apr	128.9	15.4	169.3	30.6	164.1	9.9
	May	111.7	8.2	197.1	39.1	165.6	9.9
	Jun	118.6	9.0	148.3	4.5	167.4	9.9
	Jul	116.7	7.1	183.4	37.7	168.3	9.9
	Aug	132.4	15.2	125.5	-6.8	169.5	10.0

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Penerbitan semula media rakaman		Pembuatan serat buatan manusia		Penuangan logam	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Reproduction of recorded media</i>		<i>Manufacture of man-made fibres</i>		<i>Casting of metals</i>	
Kod/ Codes		182		203		243	
Wajaran/Weight 2015		0.00		0.02		0.17	
2021		117.8	2.1	95.4	28.1	117.2	7.0
2022		106.7	-9.4	101.8	6.8	123.4	5.3
2022	Q1	101.4	-21.0	100.1	8.1	126.1	6.9
	Q2	110.7	-7.9	101.1	7.2	117.8	9.8
	Q3	106.7	-5.8	102.5	3.2	120.5	3.9
	Q4	108.1	-1.1	103.6	8.7	129.0	1.3
2023	Q1	108.4	6.9	104.7	4.6	132.6	5.1
	Q2	98.8	-10.7	105.8	4.7	126.5	7.4
2022	(Jan.-Aug.)	106.5	-12.2	101.1	5.8	121.6	7.0
2023	(Jan.-Aug.)	101.9	-4.3	105.8	4.7	124.9	2.8
2022	Jan.	103.6	-22.2	99.5	20.0	123.0	3.7
	Feb.	101.4	-28.2	100.1	4.3	125.3	10.5
	Mar.	99.3	-10.5	100.7	1.8	130.1	6.5
	Apr.	122.6	2.2	100.7	21.1	122.0	19.2
	May	106.5	-6.6	102.6	5.1	116.0	11.9
	Jun.	103.2	-18.5	100.0	-2.1	115.5	-0.5
	Jul.	109.7	-3.7	101.6	2.5	119.0	-1.5
	Aug.	105.7	-4.8	103.6	-0.9	121.6	8.7
	Sep.	104.7	-8.7	102.4	8.3	121.0	5.0
	Oct.	107.9	-5.5	103.2	6.0	139.4	2.0
	Nov.	108.2	0.2	103.5	15.5	121.4	-1.7
	Dec.	108.3	2.4	104.0	5.2	126.3	3.4
2023	Jan	108.6	4.8	104.4	4.9	128.3	4.3
	Feb	108.7	7.2	104.7	4.6	131.0	4.5
	Mar	108.0	8.7	105.0	4.3	138.4	6.4
	Apr	109.1	-11.0	105.4	4.7	124.1	1.7
	May	94.7	-11.0	107.4	4.7	129.0	11.2
	Jun	92.7	-10.2	104.6	4.7	126.4	9.4
	Jul	98.5	-10.2	106.3	4.7	119.1	0.1
	Aug	94.9	-10.2	108.7	4.9	102.9	-15.4

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun <i>Year</i>	Tempoh <i>Period</i>	Pembuatan media magnetik dan optikal		Pembuatan bateri dan akumulator		Pembuatan kelengkapan pencahayaan elektrik	
		<i>Manufacture of magnetic and optical media</i>	<i>Manufacture of batteries and accumulators</i>	<i>Manufacture of electric lighting equipment</i>			
<i>Kod/Codes</i>		<b>268</b>		<b>272</b>		<b>274</b>	
<i>Wajaran/Weight 2015</i>		<b>0.01</b>		<b>0.18</b>		<b>0.06</b>	
2021		130.5	38.4	147.2	22.9	94.6	-2.3
2022		143.5	10.0	156.3	6.2	70.2	-25.8
2022	Q1	141.1	16.8	163.3	25.1	82.1	-32.6
	Q2	142.1	8.7	161.7	22.5	88.3	-15.6
	Q3	144.4	5.7	136.7	-7.1	53.7	-31.6
	Q4	146.5	9.5	163.5	-8.7	56.6	-22.9
2023	Q1	149.0	5.6	233.2	42.8	62.5	-23.9
	Q2	152.0	7.0	200.1	23.7	82.2	-6.9
2022	(Jan.-Aug.)	142.3	10.1	155.1	16.6	77.3	-25.7
2023	(Jan.-Aug.)	149.0	4.8	196.3	26.6	66.2	-14.3
2022	Jan.	139.7	19.2	163.3	23.7	76.3	-29.4
	Feb.	141.1	14.8	166.1	20.2	87.1	-35.2
	Mar.	142.4	16.5	160.6	32.1	82.9	-32.5
	Apr.	141.1	11.2	172.6	29.7	91.5	-7.1
	May	143.5	11.9	140.5	8.4	91.2	-13.0
	Jun.	141.5	3.3	172.0	29.1	82.2	-25.7
	Jul.	143.1	3.8	140.6	13.2	50.1	-30.9
	Aug.	145.6	3.0	124.9	-17.7	56.8	-29.1
	Sep.	144.6	10.5	144.7	-12.6	54.2	-34.6
	Oct.	145.5	2.4	149.4	-16.8	58.5	-31.4
	Nov.	146.1	14.4	144.1	-16.8	55.6	-19.8
	Dec.	148.0	12.3	197.0	6.9	55.8	-15.0
2023	Jan	148.9	6.6	204.5	25.3	56.9	-25.5
	Feb	148.7	5.4	245.8	48.0	67.1	-22.9
	Mar	149.4	4.9	249.1	55.1	63.4	-23.5
	Apr	150.3	6.5	228.1	32.1	76.1	-16.8
	May	154.0	7.3	196.4	39.8	103.5	13.5
	Jun	151.6	7.1	175.8	2.2	67.0	-18.5
	Jul	153.7	7.4	150.6	7.1	48.3	-3.7
	Aug	135.7	-6.8	119.8	-4.1	47.4	-16.5

Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan kelengkapan elektrik lain		Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler		Pembuatan lokomotif keretapi dan rolling stock, Pembuatan kenderaan tempur ketenteraan	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on-year
		<i>Manufacture of other electrical equipment</i>		<i>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers</i>		<i>Manufacture of railway locomotives and rolling stock, Manufacture of military fighting vehicles</i>	
Kod/ Codes		279		292		302&304	
Wajaran/Weight 2015		0.34		0.09		0.13	
2021		155.6	29.8	63.4	6.5	122.1	12.3
2022		203.1	30.5	66.3	4.6	56.1	-54.0
2022	Q1	174.1	28.7	60.8	10.9	75.3	-39.3
	Q2	204.8	-2.1	62.8	26.0	47.7	-56.5
	Q3	226.6	53.3	66.8	-5.0	50.9	-60.0
	Q4	206.9	58.8	74.7	-4.8	50.6	-60.4
2023	Q1	148.7	-14.6	68.3	12.2	54.2	-28.1
	Q2	240.2	17.3	60.0	-4.6	53.8	12.9
2022	(Jan.-Aug.)	197.3	18.7	63.0	26.1	58.8	-49.9
2023	(Jan.-Aug.)	217.5	10.2	66.5	5.5	55.1	-6.3
2022	Jan.	154.1	21.5	58.7	11.8	129.1	-7.2
	Feb.	169.1	40.5	57.5	1.0	46.6	-59.8
	Mar.	199.1	25.5	66.3	20.2	50.2	-57.1
	Apr.	176.0	-19.9	58.2	21.1	47.7	-56.9
	May	186.3	0.3	63.0	19.4	46.1	-56.0
	Jun.	251.9	13.6	67.3	37.9	49.2	-56.5
	Jul.	224.4	29.4	65.3	63.4	49.8	-50.1
	Aug.	217.8	76.0	67.8	49.2	51.9	-62.9
	Sep.	237.6	62.5	67.5	-46.4	50.9	-64.1
	Oct.	225.4	45.1	72.4	-18.6	50.7	-60.8
	Nov.	198.4	66.0	70.3	-8.1	50.1	-60.2
	Dec.	197.0	69.6	81.5	16.1	51.0	-60.1
2023	Jan	164.1	6.5	70.2	19.6	52.8	-59.1
	Feb	121.1	-28.4	66.8	16.1	53.3	14.3
	Mar	160.8	-19.2	67.8	2.3	56.4	12.3
	Apr	151.1	-14.2	58.4	0.4	52.4	10.0
	May	250.5	34.5	61.3	-2.6	53.4	15.8
	Jun	319.0	26.6	60.1	-10.7	55.5	12.9
	Jul	290.6	29.5	74.0	13.4	57.9	16.2
	Aug	282.9	29.9	73.2	8.1	59.1	13.8

**Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)**

*Table 4: Manufacturing Indices at Division Level (2015=100)*

Tahun <i>Year</i>	Tempoh <i>Period</i>	Pembuatan barang kemas, bijouterie dan artikel berkaitan		Pembuatan instrumen muzik		Pembuatan barangan sukan	
		<i>Manufacture of jewellery, bijouterie and related articles</i>	<i>Manufacture of musical instruments</i>	<i>Manufacture of sports goods</i>			
Kod/ <i>Codes</i>		321		322		323	
Wajaran/ <i>Weight 2015</i>		0.22		0.00		0.02	
2021		146.0	16.8	90.4	-8.8	107.3	2.3
2022		158.4	8.5	74.0	-18.1	88.8	-17.2
2022	Q1	156.5	4.7	68.5	-34.3	91.5	-14.5
	Q2	165.1	15.5	78.5	-16.5	93.6	-2.3
	Q3	126.7	11.6	73.7	-9.8	84.2	-25.1
	Q4	185.4	4.1	75.2	-7.7	86.0	-24.6
2023	Q1	161.9	3.4	75.4	10.1	93.3	2.0
	Q2	168.8	2.3	66.1	-15.8	79.5	-15.1
2022	(Jan.-Aug.)	149.6	12.9	73.8	-21.8	91.4	-11.2
2023	(Jan.-Aug.)	152.1	1.6	69.2	-6.3	85.9	-6.0
2022	Jan.	167.9	6.0	71.4	-31.2	102.3	-5.2
	Feb.	153.9	7.9	68.4	-34.2	82.5	-25.3
	Mar.	147.8	0.1	65.7	-37.5	89.7	-12.7
	Apr.	153.5	-13.6	90.2	-15.0	102.0	3.3
	May	187.1	19.4	71.3	-33.3	87.0	-5.8
	Jun.	154.6	63.7	73.9	7.0	91.9	-4.7
	Jul.	138.7	55.5	78.1	-5.4	94.0	-5.6
	Aug.	93.6	-0.4	71.6	-7.9	81.8	-29.0
	Sep.	147.9	-6.0	71.3	-15.8	76.7	-37.2
	Oct.	193.3	2.9	75.0	-19.2	80.7	-30.8
	Nov.	189.2	5.5	75.3	-2.4	91.8	-17.4
	Dec.	173.6	4.1	75.3	1.2	85.4	-25.3
2023	Jan	174.6	4.0	75.5	5.8	98.8	-3.4
	Feb	159.5	3.6	75.8	10.8	88.1	6.7
	Mar	151.7	2.6	75.0	14.1	93.0	3.7
	Apr	160.2	4.3	76.0	-15.8	84.2	-17.4
	May	193.3	3.3	60.0	-15.8	82.8	-4.9
	Jun	153.0	-1.0	62.3	-15.8	71.4	-22.3
	Jul	136.6	-1.5	65.8	-15.8	87.7	-6.7
	Aug	87.7	-6.3	63.4	-11.4	81.3	-0.7

Jadual 4: Indeks Pembuatan Peringkat Kumpulan (2015=100)

Table 4: Manufacturing Indices at Division Level (2015=100)

Tahun Year	Tempoh Period	Pembuatan permainan dan mainan		Pembuatan bekalan dan instrumen pergigian dan perubatan		Pembuatan lain t.t.t.l.		Pemasangan jentera perindustrian dan kelengkapan	
		Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year	Indeks/ Index	% Perubahan tahun ke tahun/ change year-on- year
		<i>Manufacture of games and toys</i>		<i>Manufacture of medical and dental instruments and supplies</i>		<i>Other manufacturing n.e.c.</i>		<i>Installation of industrial machinery and equipment</i>	
	<b>Kod/ Codes</b>	<b>324</b>		<b>325</b>		<b>329</b>		<b>332</b>	
	<b>Wajaran/Weight 2015</b>	<b>0.07</b>		<b>0.13</b>		<b>0.31</b>		<b>0.08</b>	
<b>2021</b>		82.3	-4.9	113.4	-0.7	83.6	-7.6	96.6	-3.9
<b>2022</b>		74.6	-9.4	133.8	18.0	94.9	13.5	101.6	5.2
<b>2022</b>	<b>Q1</b>	73.9	-26.0	139.9	29.5	97.7	-0.1	102.6	32.9
	<b>Q2</b>	76.2	-4.9	118.2	27.1	89.0	16.1	104.2	10.9
	<b>Q3</b>	75.5	9.3	142.2	20.8	97.9	36.9	94.8	-13.7
	<b>Q4</b>	73.0	-9.2	135.0	0.1	94.9	7.5	105.0	-0.5
<b>2023</b>	<b>Q1</b>	75.1	1.7	136.5	-2.5	101.6	3.9	103.7	1.0
	<b>Q2</b>	70.2	-7.8	137.5	16.3	89.9	1.0	88.4	-15.2
<b>2022</b>	<b>(Jan.-Aug.)</b>	74.5	-12.0	132.7	31.7	92.9	14.7	101.1	12.5
<b>2023</b>	<b>(Jan.-Aug.)</b>	70.8	-4.9	143.2	7.9	94.4	1.6	99.2	-1.8
<b>2022</b>	<b>Jan.</b>	78.9	-12.0	138.2	24.8	97.5	-10.0	108.6	47.7
	<b>Feb.</b>	70.1	-33.4	137.6	35.7	95.2	5.1	86.9	28.3
	<b>Mar.</b>	72.5	-30.7	144.0	28.6	100.6	6.2	112.3	24.3
	<b>Apr.</b>	79.3	-6.2	103.2	23.9	97.0	19.2	108.1	19.8
	<b>May</b>	72.1	-15.1	123.2	15.3	87.5	4.1	101.5	10.8
	<b>Jun.</b>	77.2	8.9	128.2	44.3	82.5	28.0	103.0	3.0
	<b>Jul.</b>	75.6	7.5	142.3	57.2	89.5	46.5	102.1	-3.6
	<b>Aug.</b>	70.3	5.0	145.0	29.0	93.4	47.7	86.3	-13.2
	<b>Sep.</b>	80.4	15.3	139.2	-7.2	110.9	22.8	95.9	-22.8
	<b>Oct.</b>	67.1	-15.9	133.9	-1.3	97.7	3.6	119.7	0.3
	<b>Nov.</b>	77.8	-8.0	140.0	-0.5	97.9	14.4	108.6	5.9
	<b>Dec.</b>	74.2	-3.6	131.2	2.1	89.2	5.0	86.5	-8.6
<b>2023</b>	<b>Jan</b>	74.6	-5.5	129.4	-6.3	100.7	3.4	95.7	-11.9
	<b>Feb</b>	73.0	4.2	139.2	1.1	103.7	9.0	92.9	6.9
	<b>Mar</b>	77.8	7.3	140.9	-2.2	100.3	-0.3	122.5	9.1
	<b>Apr</b>	64.4	-18.7	117.5	13.8	92.0	-5.2	93.6	-13.4
	<b>May</b>	75.3	4.4	160.9	30.6	91.5	4.6	87.9	-13.4
	<b>Jun</b>	71.0	-8.0	134.2	4.7	86.3	4.5	83.7	-18.7
	<b>Jul</b>	69.6	-8.0	158.6	11.5	88.6	-0.9	112.8	10.5
	<b>Aug</b>	60.9	-13.4	165.3	14.0	92.3	-1.2	104.8	21.5

Jadual 5: Indeks Pembuatan Peringkat Bahagian (2015=100)  
Table 5: Manufacturing Indices at Division Level (2015=100)

Bil./ No.	Wajaran/ Weights 2015	Kod/ Codes	Keterangan/Tempoh	Description/Period																
				Jan.- 2022	Jul. 2022	Aug. 2022	Jun. 2023	Jul. 2023	Aug. 2023	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Jan.- Aug. 2022	Jan.- Aug. 2023	
		<b>68.25</b>	<b>C PEMBUATAN</b>		<b>145.2</b>	<b>136.9</b>	<b>144.5</b>	<b>142.8</b>	<b>136.6</b>	<b>143.6</b>	<b>137.9</b>	<b>133.2</b>	<b>134.8</b>	<b>143.5</b>	<b>137.7</b>	<b>134.9</b>	<b>123.8</b>	<b>135.7</b>	<b>137.3</b>	<b>MANUFACTURING</b>
1.	8.55		Makanan, Minuman dan Tembaku	126.1	128.1	136.8	129.7	133.1	142.1	127.9	117.3	125.5	132.1	126.0	129.4	115.9	124.2	130.2	130.2	Food, Beverages and Tobacco
	7.39	10	Pembuatan produk makanan	128.0	132.0	141.5	130.8	136.6	146.9	127.6	115.9	125.9	133.2	124.8	128.7	119.3	124.9	130.5	130.5	Manufacture of food products
	1.2	0.65	Pembuatan minuman	132.7	132.8	137.8	134.9	135.3	138.2	137.7	125.1	137.7	140.7	123.2	140.4	111.7	132.4	133.0	133.0	Manufacture of beverages
	1.3	0.52	Pembuatan produk tembaku	90.0	67.8	69.5	107.9	79.4	77.9	121.1	127.6	104.2	105.4	147.4	125.2	72.6	104.1	121.9	121.9	Manufacture of tobacco products
2.	1.33		Produk Tekstil, Pakaian, Kulit dan Kasut	110.6	109.1	116.1	114.1	111.0	116.1	137.9	134.7	110.1	137.3	135.7	114.3	111.0	120.0	122.1	122.1	Textiles, Wearing Apparel, Leather Products and Footwear
	2.1	0.58	Pembuatan tekstil	116.0	110.9	114.0	109.1	103.9	108.2	125.9	129.5	109.5	124.4	125.0	105.7	110.6	117.7	113.0	113.0	Manufacture of textiles
	2.2	0.60	Pembuatan pakaian	96.5	100.4	111.0	109.1	108.6	115.3	153.7	137.7	100.5	148.4	141.4	109.9	109.9	115.7	122.2	122.2	Manufacture of wearing apparel
	2.3	0.15	Pembuatan produk kulit dan barangan berkaitan	147.0	137.1	145.4	153.6	148.0	149.9	120.0	143.1	151.6	142.0	153.9	165.9	117.0	145.8	157.2	157.2	Manufacture of leather and related products
3.	4.56		Produk Kayu, Perabot, Keluaran Kertas, Percetakan	124.6	119.3	122.3	124.4	119.5	124.6	136.4	136.4	124.6	132.8	131.2	123.3	114.4	128.1	126.0	126.0	Wood Products, Furniture, Paper Products, Printing
	3.1	1.44	Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artefak jerami dan bahan-bahan anyaman	118.1	112.8	113.1	113.6	109.0	111.8	131.9	130.3	117.9	120.8	119.0	111.9	106.7	121.3	114.2	114.2	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
	3.2	1.15	Pembuatan kertas dan produk kertas	142.6	139.9	145.6	145.5	142.3	150.4	149.0	142.0	132.5	151.5	147.3	136.9	126.3	138.6	143.2	143.2	Manufacture of paper and paper products
	3.3	0.93	Percetakan dan penerbitan semua media rakaman	112.5	108.9	119.8	121.3	117.8	131.7	130.5	121.7	119.7	138.2	126.2	127.6	111.2	119.1	126.3	126.3	Printing and reproduction of recorded media
	3.4	1.04	Pembuatan perabot	124.5	114.8	111.5	118.6	110.3	107.6	133.7	151.7	129.5	123.7	134.5	120.3	114.5	133.7	122.8	122.8	Manufacture of furniture
4.	20.60		Produk Petroleum, Kimia, Getah dan Plastik	141.3	136.6	139.6	134.7	131.1	136.3	130.3	130.2	126.6	131.5	132.9	124.3	130.5	130.8	129.9	129.9	Petroleum, Chemical, Rubber and Plastic Products
	4.1	9.36	Pembuatan kok dan produk petroleum bertapis	130.5	129.6	131.2	116.4	116.5	121.3	116.3	118.6	110.7	122.3	128.0	108.7	112.2	118.6	118.5	118.5	Manufacture of coke and refined petroleum products
	4.2	6.37	Pembuatan kimia dan produk kimia	131.6	119.6	128.0	140.8	128.4	137.9	125.0	125.7	120.1	127.2	129.2	125.9	117.2	123.1	128.9	128.9	Manufacture of chemicals and chemical products
	4.3	0.38	Pembuatan produk farmasutikal asas, kimia perubahan dan botani	173.4	180.8	184.9	165.3	174.0	176.2	169.1	156.2	162.7	174.3	165.3	163.1	153.4	165.3	166.9	166.9	Manufacture of basic pharmaceuticals, medicinal chemical and botanical products
	4.4	4.49	Pembuatan produk getah dan plastik	174.9	171.5	170.0	161.7	161.6	162.2	163.6	158.3	166.0	152.9	145.9	151.4	185.4	164.3	152.0	152.0	Manufacture of rubber and plastics products
5.	9.11		Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka	104.0	101.7	112.2	109.4	106.2	116.8	123.9	122.6	105.9	126.5	126.8	111.8	101.9	112.4	117.3	117.3	Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products
	5.1	2.97	Pembuatan produk galian bukan logam lain	93.6	94.0	109.3	96.9	96.8	113.0	124.7	124.4	98.7	127.1	128.8	101.5	96.9	109.0	112.6	112.6	Manufacture of basic metals
	5.2	2.35	Pembuatan logam asas	111.3	111.6	124.5	116.4	114.2	125.0	127.7	123.9	115.3	127.8	126.0	120.9	107.8	119.2	122.5	122.5	Manufacture of fabricated metal products, except machinery and equipment
	5.3	3.79	Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan	107.7	101.6	107.0	114.9	108.6	114.7	121.0	120.3	105.9	125.2	125.8	114.1	102.1	110.9	117.9	117.9	Machinery and equipment
6.	18.23		Produk Peralatan Elektrik dan Elektronik	190.8	171.1	182.0	184.0	168.3	175.6	162.8	149.5	167.8	178.0	155.0	165.3	140.3	163.1	163.1	163.1	Electrical and Electronics Products
	6.1	13.89	Pembuatan komputer, produk elektronik dan optikal	198.4	176.9	189.5	190.4	174.1	182.3	170.6	153.7	171.8	188.7	160.2	168.4	141.9	167.8	167.8	167.8	Manufacture of computer, electronics and optical products
	6.2	2.20	Pembuatan kelengkapan elektrik	164.8	145.6	147.2	146.6	147.8	142.8	142.2	152.3	147.6	141.8	153.1	130.9	147.0	147.4	147.4	147.4	Manufacture of electrical equipment
	6.3	2.14	Pembuatan jentera dan peralatan t.t.t.l.	168.4	159.8	168.9	163.3	153.5	160.8	133.4	130.2	157.7	140.0	135.1	157.6	139.2	149.1	149.0	149.0	Manufacture of machinery and equipment n.e.c.
7.	5.87		Kelengkapan Pengangkutan dan Pembuatan Lain	132.8	118.9	130.1	135.1	129.1	134.6	125.0	130.4	133.1	131.0	140.2	135.2	105.2	129.9	136.2	136.2	Transport Equipment and Other Manufactures
	7.1	3.17	Pembuatan kenderaan bermotor, treler dan semi treler	154.1	131.1	144.1	153.8	146.6	149.6	130.4	141.2	153.7	137.1	156.0	153.2	108.5	145.0	153.0	153.0	Manufacture of motor vehicles, trailers and semi-trailers
	7.2	1.19	Pembuatan kelengkapan pengangkutan lain	92.3	83.8	112.6	98.6	87.1	115.1	106.8	107.3	92.8	112.7	110.1	97.3	92.6	99.6	103.0	103.0	Manufacture of other transport equipment
	7.3	0.74	Pembuatan lain	111.3	112.0	100.2	112.3	113.2	100.7	122.5	119.9	115.2	126.0	122.6	119.1	100.4	114.7	117.4	117.4	Other manufacturing
7.4	0.76	33	Membalut dan pemasangan jentera dan kelengkapan	128.3	130.2	128.4	135.9	137.4	135.8	133.2	131.4	128.1	139.4	138.4	135.1	115.6	129.7	136.7	136.7	Repair and installation of machinery and equipment

Jadual 5.1: Peratus Perubahan Indeks Pembuatan Peringkat Bahagian  
Table 5.1: Percentage Change of Manufacturing Indices at Division Level

Bil. / No.	Wajaran/ Weights 2015	Kod/ Codes	Keterangan/ Tempoh	% Perubahan tahun ke tahun/ Change year-on-year												% Perubahan bulan ke bulan/ Change month-on-month				% Perubahan suku tahun ke suku tahun/ Change quarter-on-quarter				Description/ Period
				Jul. 2022	Aug. 2022	Jul. 2023	Aug. 2023	Q1 2022	Q2 2022	Q1 2023	Q2 2023	Jan.- Aug. 2022	Jan.- Aug. 2023	Jul. 2022	Aug. 2022	Jul. 2023	Aug. 2023	Q1 2022	Q2 2022	Q1 2023	Q2 2023			
		<b>68.25</b>	<b>C PEMBUATAN</b>	14.9	15.2	-0.2	-0.6	6.3	9.3	3.4	0.1	9.6	1.2	9.5	8.2	-5.7	5.6	-4.3	5.1	-3.4	1.2	-4.0	-2.1	<b>MANUFACTURING</b>
1.	8.55		Makanan, Minuman dan Tembakau	11.2	11.4	3.9	3.8	5.7	5.6	7.4	3.1	7.1	4.8	1.7	5.9	1.6	6.8	2.6	6.8	-8.3	6.9	-4.6	2.7	Food, Beverages and Tobacco
	1.1	7.39	Pembuatan produk makanan	5.2	7.6	3.5	3.9	5.7	2.4	7.6	2.2	4.6	4.5	1.8	4.5	3.1	7.2	4.5	7.5	-9.1	8.6	-6.3	3.2	Manufacture of food products
	1.2	0.65	Pembuatan minuman	50.9	14.9	1.9	0.2	7.6	22.5	-1.5	2.0	18.5	0.5	9.9	13.3	0.0	3.8	0.3	2.1	-9.0	10.0	-12.5	14.0	Manufacture of beverages
	1.3	0.52	Pembuatan produk tembakau	2699.2	2813.6	17.2	12.1	4.1	49.8	15.5	20.2	43.3	17.1	-12.4	22.1	-24.7	2.5	-26.4	-2.0	5.4	-18.4	39.9	-15.0	Manufacture of tobacco products
2.	1.33		Produk Tekstil, Pakaian, Kulit dan Kasut	17.9	12.9	1.7	0.0	5.0	7.3	0.7	3.9	8.1	1.8	7.3	5.6	-1.4	6.5	-2.7	4.6	-2.3	-18.3	-1.2	-15.7	Textiles, Wearing Apparel, Leather Products and Footwear
	2.1	0.58	Pembuatan tekstil	10.7	9.7	-6.3	-5.1	6.6	3.8	-3.5	-3.5	6.4	-4.0	13.3	4.3	4.4	2.8	-4.8	4.1	2.8	-15.4	0.4	-15.4	Manufacture of textiles
	2.2	0.60	Pembuatan pakaian	9.8	2.5	8.2	3.9	4.4	6.4	2.7	9.4	5.3	5.6	1.6	2.1	4.1	10.5	-0.5	6.2	-10.4	-27.1	-4.7	-22.3	Manufacture of wearing apparel
	2.3	0.15	Pembuatan produk kulit dan barangan berkaitan	104.7	90.7	7.9	3.2	2.4	21.6	7.6	9.5	24.6	7.8	11.5	25.6	-6.7	6.0	-3.7	1.3	19.3	5.9	8.4	7.8	Manufacture of leather and related products
3.	4.56		Produk Kayu, Perabot, Keluaran Kertas, Percetakan	27.8	16.6	0.2	1.9	6.9	11.9	-3.8	-1.0	12.0	-1.7	6.2	7.6	-4.3	2.5	-3.9	4.3	0.0	-8.6	-1.2	-6.0	Wood Products, Furniture, Paper Products, Printing
	3.1	1.44	Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman	42.4	13.1	-3.3	-1.2	9.3	11.5	-8.6	-5.1	13.7	-5.8	9.2	6.7	-4.5	0.3	-4.0	2.5	-1.2	-9.5	-1.4	-6.0	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
	3.2	1.15	Pembuatan kertas dan produk kertas	14.0	12.2	1.7	3.3	8.6	8.7	3.7	3.3	9.7	3.3	14.9	7.5	-1.8	4.1	-2.2	5.7	-4.7	-6.7	-2.8	-7.0	Manufacture of paper and paper products
	3.3	0.93	Percetakan dan penerbitan semula media rakaman	10.2	8.4	8.2	9.9	1.8	11.7	3.7	6.6	7.1	6.1	3.1	6.8	-3.2	10.1	-2.9	11.7	-6.8	-1.6	-8.7	1.1	Printing and reproduction of recorded media
	3.4	1.04	Pembuatan perabot	52.2	40.9	-3.9	-3.5	6.3	16.6	-11.3	-7.1	16.8	-8.2	-3.7	9.5	-7.8	-2.9	-7.0	-2.5	13.4	-14.6	8.7	-10.6	Manufacture of furniture
4.	20.60		Produk Petroleum, Kimia, Getah dan Plastik	1.0	5.4	-4.1	-2.4	-0.7	-0.8	2.1	-1.8	0.2	-0.7	13.1	0.9	-3.3	2.2	-2.7	4.0	-0.1	-2.7	1.1	-6.5	Petroleum, Chemical, Rubber and Plastic Products
	4.1	9.36	Pembuatan kok dan produk petroleum bertapis	5.7	12.8	-10.1	-7.5	4.3	4.5	7.9	-1.8	5.7	-0.1	11.6	6.3	-0.7	1.2	0.0	4.1	2.0	-6.7	4.6	-15.1	Manufacture of coke and refined petroleum products
	4.2	6.37	Pembuatan kimia dan produk kimia	4.0	4.6	7.3	7.7	4.2	6.5	2.8	4.8	5.0	4.7	9.4	4.1	-9.1	7.0	-8.8	7.4	0.5	-4.4	1.6	-2.5	Manufacture of chemicals and chemical products
	4.3	0.38	Pembuatan produk farmaseutikal asas, kimia perubatan dan botani	9.5	8.6	-3.8	-4.7	9.9	4.9	5.8	0.2	7.8	1.0	15.7	6.1	4.3	2.2	5.2	1.3	-7.6	4.1	-5.1	-1.4	Manufacture of basic pharmaceuticals, medicinal chemical and botanical products
	4.4	4.49	Pembuatan produk getah dan plastik	-8.6	-4.2	-5.8	-4.6	-12.5	-13.5	-7.8	-8.8	-11.4	-7.5	18.8	-9.6	-1.9	-0.9	-0.1	0.3	-3.2	4.8	-4.6	3.7	Manufacture of rubber and plastics products
5.	9.11		Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka	23.9	13.6	4.4	4.0	5.7	10.9	3.5	5.5	10.3	4.4	3.7	7.6	-2.2	10.4	-2.9	10.0	-1.1	-13.6	0.3	-11.9	Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products
	5.1	2.97	Pembuatan produk galian bukan logam lain	34.7	16.7	3.0	3.4	6.0	13.8	3.5	2.9	12.5	3.2	1.0	9.1	0.4	16.3	-0.1	16.7	-0.2	-20.7	1.3	-21.1	Manufacture of other non-metallic mineral products
	5.2	2.35	Pembuatan logam asas	22.0	11.4	2.3	0.4	7.2	10.8	1.7	4.9	10.6	2.8	2.8	6.8	0.3	11.5	-1.9	9.4	-2.9	-7.0	-1.3	-4.1	Manufacture of basic metals
	5.3	3.79	Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan	18.2	13.0	6.9	7.2	4.6	9.0	4.5	7.8	8.6	6.3	6.3	7.1	-5.7	5.3	-5.5	5.5	-0.5	-12.0	0.5	-9.3	Manufacture of fabricated metal products, except machinery and equipment
6.	18.23		Produk Peralatan Elektrik dan Elektronik	17.3	19.6	-1.6	-3.5	15.3	15.7	3.7	-1.5	16.3	0.0	14.7	14.3	-10.3	6.4	-8.5	4.3	-8.2	12.2	-12.9	6.6	Electrical and Electronics Products
	6.1	13.89	Pembuatan komputer, produk elektronik dan optikal	18.4	21.5	-1.6	-3.8	16.8	18.4	4.3	-2.0	18.3	0.0	15.6	16.0	-10.9	7.1	-8.6	4.7	-9.9	11.8	-15.1	5.1	Manufacture of computer, electronics and optical products
	6.2	2.20	Pembuatan kelengkapan elektrik	10.9	10.6	0.7	0.4	16.3	9.8	-0.3	0.5	12.3	0.2	12.2	9.7	-11.6	1.1	-10.7	0.8	-4.0	7.1	-4.0	8.0	Manufacture of electrical equipment
	6.3	2.14	Pembuatan jentera dan peralatan t.t.t.l.	15.8	14.6	-3.9	-4.8	4.3	4.3	3.8	-0.1	7.1	0.0	11.6	7.0	-5.1	5.6	-6.0	4.7	-2.4	21.2	-3.6	16.7	Manufacture of machinery and equipment n.e.c.
7.	5.87		Kelengkapan Pengangkutan dan Pembuatan Lain	73.6	55.2	8.5	3.5	4.5	26.9	7.5	1.5	23.6	4.8	1.3	18.1	-10.4	9.4	-4.4	4.3	4.3	2.1	7.0	-3.6	Transport Equipment and Other Manufactures
	7.1	3.17	Pembuatan kenderaan bermotor, treler dan semi treler	129.9	107.1	11.9	3.8	4.5	37.3	10.5	-0.3	33.6	5.5	0.8	25.6	-15.0	9.9	-4.7	2.0	8.3	8.8	13.8	-1.8	Manufacture of motor vehicles, trailers and semi-trailers
	7.2	1.19	Pembuatan kelengkapan pengangkutan lain	22.1	6.5	3.9	2.2	2.6	10.3	2.5	4.8	7.6	3.4	2.8	7.0	-9.2	34.3	-11.7	32.2	0.5	-13.5	-2.3	-11.6	Manufacture of other transport equipment
	7.3	0.74	Pembuatan lain	46.7	21.3	1.1	0.5	4.1	15.6	2.2	3.5	14.2	2.4	2.6	9.9	0.6	-10.5	0.7	-11.0	-2.2	-3.9	-2.7	-2.8	Other manufacturing
	7.4	0.76	Membaiki dan pemasangan jentera dan kelengkapan	20.1	16.6	5.6	5.8	7.5	13.2	5.3	5.4	12.1	5.4	-0.1	10.2	1.4	-1.3	1.1	-1.2	-1.3	-2.5	-0.7	-2.4	Repair and installation of machinery and equipment

Jadual 6: Indeks Pembuatan mengikut Industri Berorientasikan Eksport dan Domestik (2015=100)  
Table 6: Manufacturing indices by Exports and Domestic Oriented Industries (2015=100)

Bil./ No.	Wajaran/ Weights 2015	Kod/ Codes	Keterangan/Tempoh	Description/ Period																
				Jan- 2022	Jan- 2023	Feb- 2023	Mar- 2023	Apr- 2023	May- 2023	Jun- 2023	Jul- 2023	Aug- 2023	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Jan- 2022	Jan- 2023		
1.	68.25	C	PEMBUATAN	145.2	136.9	144.5	142.8	136.6	143.6	137.9	133.2	134.8	143.5	137.7	134.9	123.8	135.7	137.3	MANUFACTURING	
	45.82		Industri Berorientasikan Eksport	155.1	144.8	151.2	149.1	140.9	147.2	141.4	134.4	139.0	147.4	138.0	136.7	129.6	139.5	139.0	Export Oriented Industries	
	1.1	3.71	104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	97.0	98.6	106.6	93.4	96.4	107.5	106.6	83.1	90.8	108.5	94.5	91.4	93.8	90.8	95.2	Manufacture of vegetable and animal oils and fats
	1.2	0.58	13	Pembuatan tekstil	116.0	110.9	114.0	109.1	103.9	108.2	125.9	129.5	109.5	124.4	125.0	105.7	110.6	117.7	113.0	Manufacture of textiles
	1.3	0.60	14	Pembuatan pakaian	96.5	100.4	111.0	109.1	108.6	115.3	153.7	137.7	100.5	148.4	141.4	109.9	109.9	115.7	122.2	Manufacture of wearing apparel
	1.4	1.44	16	Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman	118.1	112.8	113.1	113.6	109.0	111.8	131.9	130.3	117.9	120.8	119.0	111.9	106.7	121.3	114.2	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
	1.5	9.36	19	Pembuatan kok dan produk petroleum bertapis	130.5	129.6	131.2	116.4	116.5	121.3	116.3	118.6	110.7	122.3	128.0	108.7	112.2	118.6	118.5	Manufacture of coke and refined petroleum products
	1.6	6.37	20	Pembuatan kimia dan produk kimia	131.6	119.6	128.0	140.8	128.4	137.9	125.0	125.7	120.1	127.2	129.2	125.9	117.2	123.1	128.9	Manufacture of chemicals and chemical products
	1.7	2.22	221	Pembuatan produk getah	203.2	195.9	194.5	182.7	178.3	180.4	188.6	187.7	204.7	172.6	174.4	179.7	245.4	195.9	177.6	Manufacture of rubber products
	1.8	2.26	222	Pembuatan produk plastik	147.1	147.6	145.9	141.1	145.2	144.3	139.1	129.5	128.0	133.7	117.9	123.6	126.7	133.3	126.8	Manufacture of plastics products
	1.9	13.89	26	Pembuatan komputer, produk elektronik dan optikal	198.4	176.9	189.5	190.4	174.1	182.3	170.6	153.7	171.8	188.7	160.2	168.4	141.9	167.8	167.8	Manufacture of computer, electronics and optical products
	1.10	2.20	27	Pembuatan kelengkapan elektrik	164.8	145.6	147.2	164.2	146.6	147.8	142.8	142.2	152.3	147.6	141.8	153.1	130.9	147.0	147.4	Manufacture of electrical equipment
	1.11	2.14	28	Pembuatan jentera dan peralatan t.t.t.l.	168.4	159.8	168.9	163.3	153.5	160.8	133.4	130.2	157.7	140.0	135.1	157.6	139.2	149.1	149.0	Manufacture of machinery and equipment n.e.c.
	1.12	1.04	31	Pembuatan perabot	124.5	114.8	111.5	118.6	110.3	107.6	133.7	129.5	123.7	134.5	120.3	114.5	133.7	122.8	122.8	Manufacture of furniture
	2.	22.44		Industri Berorientasikan Domestik	124.9	120.7	130.7	130.1	127.8	136.2	130.9	130.8	126.2	135.5	137.2	131.2	112.1	127.8	133.6	Domestic Oriented Industries
	2.1	3.68	10 (kecuali 104)	Pembuatan produk proses makanan	159.3	165.6	176.7	168.5	177.3	186.7	148.7	149.1	161.4	158.2	155.3	166.4	145.1	159.2	166.1	Manufacture of food processing products
2.2	0.65	11	Pembuatan minuman	132.7	132.8	137.8	134.9	135.3	138.2	137.5	125.1	137.7	140.7	123.2	140.4	111.7	132.4	133.0	Manufacture of beverages	
2.3	0.52	12	Pembuatan produk tembakau	90.0	67.8	69.5	107.9	79.4	77.9	121.1	127.6	104.2	105.4	147.4	125.2	72.6	104.1	121.9	Manufacture of tobacco products	
2.4	0.15	15	Pembuatan produk kulit dan barangan berkaitan	147.0	137.1	145.4	153.6	148.0	149.9	120.0	143.1	151.6	142.0	153.9	165.9	117.0	145.8	157.2	Manufacture of leather and related products	
2.5	1.15	17	Pembuatan kertas dan produk kertas	142.6	139.9	145.6	145.5	142.3	150.4	149.0	142.0	132.5	151.5	147.3	136.9	126.3	138.6	143.2	Manufacture of paper and paper products	
2.6	0.93	18	Percetakan dan penerbitan semula media rakaman	112.5	108.9	119.8	121.3	117.8	131.7	130.5	121.7	119.7	138.2	126.2	127.6	111.2	119.1	126.3	Printing and reproduction of recorded media	
2.7	0.38	21	Pembuatan produk farmaseutikal asas, kimia perubatan dan botani	173.4	180.8	184.9	165.3	174.0	176.2	169.1	156.2	162.7	174.3	165.3	163.1	153.4	165.3	166.9	Manufacture of basic pharmaceuticals, medicinal chemical and botanical products	
2.8	2.97	23	Pembuatan produk galian bukan logam lain	93.6	94.0	109.3	96.9	96.8	113.0	124.7	124.4	98.7	127.1	128.8	101.5	96.9	109.0	112.6	Manufacture of other non-metallic mineral products	
2.9	2.35	24	Pembuatan logam asas	111.3	111.6	124.5	116.4	114.2	125.0	127.7	123.9	115.3	127.8	126.0	120.9	107.8	119.2	122.5	Manufacture of basic metals	
2.10	3.79	25	Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan	107.7	101.6	107.0	114.9	108.6	114.7	121.0	120.3	105.9	125.2	125.8	114.1	102.1	110.9	117.9	Manufacture of fabricated metal products, except machinery and equipment	
2.11	3.17	29	Pembuatan kenderaan bermotor, treler dan semi treler	154.1	131.1	144.1	153.8	146.6	149.6	130.4	141.2	153.7	137.1	156.0	153.2	108.5	145.0	153.0	Manufacture of motor vehicles, trailers and semi-trailers	
2.12	1.19	30	Pembuatan kelengkapan pengangkutan lain	92.3	83.8	112.6	98.6	87.1	115.1	106.8	107.3	92.8	112.7	110.1	97.3	92.6	99.6	103.0	Manufacture of other transport equipment	
2.13	0.74	32	Pembuatan lain	111.3	112.0	100.2	112.3	113.2	100.7	122.5	119.9	115.2	126.0	122.6	119.1	100.4	114.7	117.4	Other manufacturing	
1.13	0.76	33	Membalut dan pemasangan jentera dan kelengkapan	128.3	130.2	128.4	135.9	137.4	135.8	133.2	131.4	128.1	139.4	138.4	135.1	115.6	129.7	136.7	Repair and installation of machinery and equipment	

Jadual 6.1: Peratus Perubahan Indeks Pembuatan mengikut Industri Berorientasikan Eksport dan Domestik  
Table 6.1: Percentage Change of Manufacturing Indices by Exports and Domestic Oriented Industries

Bil./ No.	Wejiran/ Weights 2015	Kod/ Codes	Keterangan/Temph	% Perubahan tahun ke tahun/ Change year-on-year				% Perubahan bulan ke bulan/ Change month-on-month				% Perubahan suku tahun ke suku tahun/ Change quarter-on-quarter				Description/ Period							
				Jul. 2022	Aug. 2022	Jul. 2023	Aug. 2023	Jan.- Aug. 2022	Jan.- Aug. 2023	Jul. 2022	Aug. 2022	Jul. 2023	Aug. 2023	Q1 2022	Q2 2022		Q1 2023	Q2 2023					
1.	68.25	C	<b>PEMBUATAN</b>	14.9	15.2	-0.2	-0.6	6.3	9.3	3.4	0.1	9.6	1.2	-5.7	5.6	-4.3	5.1	-3.4	1.2	-4.0	-2.1	<b>MANUFACTURING</b>	
	45.82		<b>Industri Berorientasikan Eksport</b>	9.5	12.4	-2.7	-2.6	6.5	6.7	2.6	-1.6	7.7	-0.4	-6.6	4.4	-5.5	4.5	-4.9	3.4	-6.4	-0.9	<b>Export Oriented Industries</b>	
1.1	3.71	104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	-2.3	5.0	-2.3	0.9	0.4	-9.2	13.8	0.7	-3.2	4.8	1.7	8.1	3.1	11.6	-22.1	9.2	-12.9	-3.3	Manufacture of vegetable and animal oils and fats	
1.2	0.58	13	Pembuatan tekstil	10.7	9.7	-6.3	-5.1	6.6	3.8	-3.5	-4.0	-4.4	2.8	-4.8	4.1	2.8	-4.8	4.1	2.8	-15.4	0.4	-15.4	Manufacture of textiles
1.3	0.60	14	Pembuatan pakaian	9.8	2.5	8.2	3.9	4.4	6.4	2.7	9.4	5.3	5.6	4.1	10.5	-0.5	6.2	-10.4	-27.1	-4.7	-22.3	Manufacture of wearing apparel	
1.4	1.44	16	Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman	42.4	13.1	-3.3	-1.2	9.3	11.5	-8.6	-5.1	13.7	-5.8	-4.5	0.3	-4.0	2.5	-1.2	-9.5	-1.4	-6.0	Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	
1.5	9.36	19	Pembuatan kok dan produk petroleum bertapis	5.7	12.8	-10.1	-7.5	4.3	4.5	7.9	-1.8	5.7	-0.1	-0.7	1.2	0.0	4.1	2.0	-6.7	4.6	-15.1	Manufacture of coke and refined petroleum products	
1.6	6.37	20	Pembuatan kimia dan produk kimia	4.0	4.6	7.3	7.7	4.2	6.5	2.8	4.8	5.0	4.7	-9.1	7.0	-8.8	7.4	0.5	-4.4	1.6	-2.5	Manufacture of chemicals and chemical products	
1.7	2.22	221	Pembuatan produk getah	-17.5	-10.6	-9.0	-7.3	-21.9	-22.0	-7.0	-12.2	-20.1	-9.3	-3.6	-0.7	-2.4	1.2	-0.5	9.1	1.1	3.0	Manufacture of rubber products	
1.8	2.26	222	Pembuatan produk plastik	6.2	5.6	-1.6	-1.1	5.4	4.5	-9.0	-3.4	5.2	-4.9	0.3	-1.1	2.9	-0.7	-6.9	-1.2	-11.8	4.8	Manufacture of plastic products	
1.9	13.89	26	Pembuatan komputer, produk elektronik dan optikal	18.4	21.5	-1.6	-3.8	16.8	18.4	4.3	-2.0	18.3	0.0	-10.9	7.1	-8.6	4.7	-9.9	11.8	-15.1	5.1	Manufacture of computer, electronics and optical products	
1.10	2.20	27	Pembuatan kelengkapan elektrik	10.9	10.6	0.7	0.4	16.3	9.8	-0.3	0.5	12.3	0.2	-11.6	1.1	-10.7	0.8	-0.4	7.1	-4.0	8.0	Manufacture of electrical equipment	
1.11	2.14	28	Pembuatan jentera dan peralatan t.t.t.l.	15.8	14.6	-3.9	-4.8	4.3	4.3	3.8	-0.1	7.1	0.0	-5.1	5.6	-6.0	4.7	-2.4	21.2	-3.6	16.7	Manufacture of machinery and equipment n.e.c.	
1.12	1.04	31	Pembuatan perabot	52.2	40.9	-3.9	-3.5	6.3	16.6	-11.3	-7.1	16.8	-8.2	-7.8	-2.9	-7.0	-2.5	13.4	-14.6	8.7	-10.6	Manufacture of furniture	
2.	22.44		<b>Industri Berorientasikan Domestik</b>	30.9	22.5	6.0	4.2	6.1	15.6	4.9	3.9	14.1	4.6	-3.4	8.3	-1.7	6.5	0.0	-3.5	1.3	-4.4	<b>Domestic Oriented Industries</b>	
2.1	3.68	10	Pembuatan produk proses makanan	10.2	9.2	7.0	5.7	8.9	10.5	4.2	3.1	9.7	4.4	4.0	6.7	5.2	5.3	0.3	8.2	-1.8	7.1	Manufacture of food processing products	
2.2	0.65	11	Pembuatan minuman	50.9	14.9	1.9	0.2	7.6	22.5	-1.5	2.0	18.5	0.5	0.01	3.8	0.3	2.1	-9.0	10.0	-12.5	14.0	Manufacture of beverages	
2.3	0.52	12	Pembuatan produk tembakau	2699.2	2813.6	17.2	12.1	4.1	49.8	15.5	20.2	43.3	17.1	-24.7	2.5	-26.4	-2.0	5.4	-18.4	39.9	-15.0	Manufacture of tobacco products	
2.4	0.15	15	Pembuatan produk kulit dan barangan berkaitan	104.7	90.7	7.9	3.2	2.4	21.6	7.6	9.5	24.6	7.8	-6.7	6.0	-3.7	1.3	19.3	5.9	8.4	7.8	Manufacture of leather and related products	
2.5	1.15	17	Pembuatan kertas dan produk kertas	14.0	12.2	1.7	3.3	8.6	8.7	3.7	3.3	9.7	3.3	-1.8	4.1	-2.2	5.7	-4.7	-6.7	-2.8	-7.0	Manufacture of paper and paper products	
2.6	0.93	18	Percetakan dan penerbitan semula media rakanan	10.2	8.4	8.2	9.9	1.8	11.7	3.7	6.6	7.1	6.1	-3.2	10.1	-2.9	11.7	-6.8	-1.6	-8.7	1.1	Printing and reproduction of recorded media	
2.7	0.38	21	Pembuatan produk farmaseutikal asas, kimia perubatan dan botani	9.5	8.6	-3.8	-4.7	9.9	4.9	5.8	0.2	7.8	1.0	4.3	2.2	5.2	1.3	-7.6	4.1	-5.1	-1.4	Manufacture of basic pharmaceuticals, medicinal chemical and botanical products	
2.8	2.97	23	Pembuatan produk galian bukan logam lain	34.7	16.7	3.0	3.4	6.0	13.8	3.5	2.9	12.5	3.2	0.4	16.3	-0.1	16.7	-0.2	-20.7	1.3	-21.1	Manufacture of other non-metallic mineral products	
2.9	2.35	24	Pembuatan logam asas	22.0	11.4	2.3	0.4	7.2	10.8	1.7	4.9	10.6	2.8	0.3	11.5	-1.9	9.4	-2.9	-7.0	-1.3	-4.1	Manufacture of basic metals	
2.10	3.79	25	Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan	18.2	13.0	6.9	7.2	4.6	9.0	4.5	7.8	8.6	6.3	-5.7	5.3	-5.5	5.5	-0.5	-12.0	0.5	-9.3	Manufacture of fabricated metal products, except machinery and equipment	
2.11	3.17	29	Pembuatan kenderaan bermotor, treler dan semi treler	129.9	107.1	11.9	3.8	4.5	37.3	10.5	-0.3	33.6	5.5	-15.0	9.9	-4.7	2.0	8.3	8.8	13.8	-1.8	Manufacture of motor vehicles, trailers and semi-trailers	
2.12	1.19	30	Pembuatan kelengkapan pengangkutan lain	22.1	6.5	3.9	2.2	2.6	10.3	2.5	4.8	7.6	3.4	-9.2	34.3	-11.7	32.2	0.5	-13.5	-2.3	-11.6	Manufacture of other transport equipment	
2.13	0.74	32	Pembuatan lain	46.7	21.3	1.1	0.5	4.1	15.6	2.2	3.5	14.2	2.4	0.6	-10.5	0.7	-11.0	-2.2	-3.9	-2.7	-2.8	Other manufacturing	
1.13	0.76	33	Membaiki dan pemasangan jentera dan kelengkapan	20.1	16.6	5.6	5.8	7.5	13.2	5.3	5.4	12.1	5.4	1.4	-1.3	1.1	-1.2	-1.3	-2.5	-0.7	-2.4	Repair and installation of machinery and equipment	



**NOTA TEKNIKAL**

*TECHNICAL NOTES*





## INDEKS PENGELUARAN PERINDUSTRIAN MALAYSIA (2015=100)

- 1. Pengenalan**

Penerbitan bulan rujukan Januari 2018 adalah keluaran pertama yang menggunakan 2015 sebagai tahun asas dalam pembentukan Indeks Pengeluaran Perindustrian (IPP), Malaysia. Tahun asas 2015 ini menggantikan tahun asas 2010 yang telah digunakan sebelum ini. Pengasasan semula tahun asas ini merupakan kali kesembilan dilaksanakan oleh Jabatan Perangkaan Malaysia.

IPP merangkumi tiga sektor utama iaitu Perlombongan, Pembuatan dan Elektrik. Liputan ini adalah selaras dengan definisi sektor perindustrian dalam **International Recommendations for the Index of Industrial Production (IRIIP) 2010** yang dikeluarkan oleh United Nations.
- 2. Objektif**

Objektif utama IPP adalah untuk mengukur kadar perubahan sebenar pengeluaran komoditi perindustrian bagi satu tempoh masa. Maklumat daripada indikator jangka pendek ini dapat digunakan untuk membantu pengguna dalam merangka dasar serta membuat keputusan.
- 3. Tujuan Pengasasan Semula**

Pengasasan semula adalah penting bagi memenuhi keperluan permintaan untuk mendapatkan pengukuran yang lebih tepat dan boleh dipercayai. Pengasasan semula dan perubahan wajaran dilakukan bagi memastikan:

  - i. skop dan liputan indeks memenuhi keperluan pengguna;
  - ii. struktur indeks menggambarkan keadaan aktiviti industri terkini; dan
  - iii. wajaran yang digunakan mencerminkan kepentingan industri yang terlibat.
- 4. Sumber Data Pengasasan Semula**

Data daripada Banci Ekonomi bagi Industri Perlombongan dan Pengkuarian dan Banci Ekonomi bagi sektor Pembuatan tahun rujukan 2015 telah digunakan untuk mengasas semula indeks bagi kedua-dua sektor ini. Manakala data daripada Tenaga Nasional Berhad (TNB) termasuk pengeluar tenaga bebas, Sabah Electricity Sdn Bhd (SESB) dan Sarawak Energy Berhad (SEB) bagi tahun yang sama telah digunakan untuk mengemaskini wajaran sektor elektrik.
- 5. Skop dan Liputan**

Sektor **Perlombongan** meliputi pengeluaran minyak mentah dan gas asli yang mana kesemuanya menyumbang sebanyak 83.1% kepada nilai output kasar dan 89.6% kepada nilai ditambah banci sektor Perlombongan pada tahun 2015.

Sektor **Pembuatan** meliputi pengeluaran **245** Industri daripada sejumlah **259** industri. Sejumlah **245** industri terpilih ini meliputi **70** kumpulan industri. Pemilihan industri dan kumpulan ini berdasarkan sumbangan masing-masing kepada **Nilai Ditambah banci** bagi sektor Pembuatan pada tahun 2015. Industri-industri terpilih ini telah menyumbang **99.97%** Nilai Ditambah banci dan **99.98%** nilai Output Kasar bagi sektor Pembuatan pada tahun 2015.

Industri-industri ini pula diwakili oleh pengeluaran **879 produk** yang menyumbang **91.70%** dari segi jumlah Nilai Jualan dalam sektor Pembuatan. Ciri utama pemilihan produk bagi industri-industri ini telah dipilih berdasarkan sumbangan produk berkeaan kepada **jumlah nilai jualan** bagi industri tersebut.

Sektor **Elektrik** pula meliputi penjanaan tenaga elektrik oleh loji yang dilesenkan untuk menjana dan menjual tenaga elektrik. Loji seumpama ini menyumbang **98.1%** kepada jumlah tenaga elektrik yang dijanakan pada tahun 2015.

## INDEKS PENGELUARAN PERINDUSTRIAN MALAYSIA (2015=100)

6. **Wajaran** Wajaran untuk pengiraan IPP telah diperoleh seperti berikut:
- i. **Peringkat Sektor**  
Wajaran mengikut peratus sumbangan dari segi Keluaran Dalam Negeri Kasar (KDNK) pada harga semasa 2015 bagi Malaysia dalam sektor Perlombongan, Pembuatan dan Elektrik; dan
  - ii. **Peringkat Kumpulan dan Industri**  
Wajaran berdasarkan peratus kepada jumlah Nilai Ditambah Banci bagi Kumpulan dan Industri terpilih pada tahun 2015. Dalam sesebuah industri, wajaran bagi produk telah ditentukan berdasarkan peratus sumbangan nilai jualan terhadap industri berkenaan.
7. **Sumber Data Bulanan** Data bulanan pengeluaran minyak mentah dan gas asli diperoleh daripada PETRONAS.
- Data pengeluaran bagi **245** industri terpilih dalam sektor Pembuatan diperoleh melalui Survei Pembuatan Bulanan yang mana pertubuhan yang memberi sumbangan yang signifikan dari segi nilai jualan diliputi. Data pengeluaran bagi tiga industri lagi, iaitu minyak kelapa sawit mentah, minyak kelapa sawit bertapis dan minyak isi rong kelapa sawit diperoleh daripada Lembaga Minyak Sawit Malaysia (MPOB).
- Data bulanan penjanaan tenaga elektrik diperoleh daripada Tenaga Nasional Berhad (TNB), Sabah Electricity Sdn Bhd (SESB) dan Sarawak Energy Berhad (SEB).
8. **Konsep dan Definisi** Konsep dan definisi yang digunakan dalam penerbitan ini adalah berdasarkan Klasifikasi Standard Perindustrian Malaysia 2008 Ver. 1.0 yang mana selaras dengan '*International Standard Industrial Classification Of All Economic Activities (ISIC) Rev.4*'.
- Perlombongan**  
Perlombongan merupakan sebahagian daripada Kategori "Perlombongan dan Pengkuarian". Ia ditakrifkan sebagai "pengekstrakan, pembersihan, mengeluarkan galian yang terjadi secara semulajadi sebagai pepejal seperti batu arang dan bijih, cecair seperti minyak mentah atau gas seperti gas asli. Pengekstrakan galian dijalankan melalui proses seperti perlombongan bawah tanah atau dedah, kapal korek, pengkuarian, pengoperasian telaga atau dulang sejatan atau melalui pengambilan semula daripada bijih buangan atau amang. Semua aktiviti tambahan yang bertujuan untuk penyediaan bahan mentah untuk pemasaran yang dijalankan berhampiran dengan tapak lombong seperti pengilangan, pembersihan dan mengeluarkan bijih, penapisan, pembersihan dan pengapungan juga termasuk".
- Pembuatan**  
Pembuatan ditakrifkan sebagai "penukaran secara mekanikal atau kimia bagi bahan bukan organik atau organik kepada produk baru sama ada pekerjaan itu dilakukan oleh jentera yang digerakkan oleh kuasa atau tangan, sama ada dilakukan di kilang atau di rumah pekerja, dan sama ada produk dijual secara borong atau runcit." Pemasangan bahagian komponen produk dianggap sebagai pembuatan kecuali dalam kes yang mana kegiatan itu sesuai dikelaskan di bawah 'Pembinaan'. Pertubuhan yang kegiatan utamanya ialah kerja pembaikan turut dimasukkan dan dikelaskan mengikut jenis produk yang diperbaiki.

### Elektrik

Elektrik merujuk kepada "penjanaan, pengumpulan, pemancaran atau pengagihan tenaga elektrik untuk jualan kepada pengguna isi rumah, perindustrian atau komersil".

### Industri Berorientasikan Eksport dan Domestik Sektor Pembuatan

Pengelasan penentuan industri berorientasikan eksport adalah berdasarkan kepada threshold nilai eksport melebihi 50 peratus daripada nilai jualan di peringkat agregat MSIC 3-digit dan 2-digit manakala industri dengan nilai eksport di bawah threshold berkenaan dikelaskan sebagai industri berorientasikan domestik. Penentuan pengelasan tersebut dibuat menggunakan data daripada Banci Ekonomi 2011, Banci Ekonomi 2016, Survei Ekonomi Tahunan 2018 dan Statistik Perdagangan Luar Negeri Bulanan.

### 9. Unit Melapor

Unit melapor bagi survei ini ialah **pertubuhan**. Sesebuah pertubuhan ditakrifkan sebagai "satu unit ekonomi yang bergiat di bawah satu hak milik atau penguasaan tunggal, iaitu di bawah satu entiti yang sah. Ia menjalankan satu jenis aktiviti ekonomi utama di satu tempat / lokasi fizikal". Setiap pertubuhan diberikan klasifikasi industri berdasarkan aktiviti utamanya. Bagi pertubuhan yang menjalankan pelbagai aktiviti, unit yang bergiat dalam aktiviti yang berasingan dalam satu lokasi yang sama adalah terdiri daripada entiti pertubuhan yang berbeza. Oleh itu, setiap cawangan daripada organisasi yang mempunyai pelbagai cawangan di lokasi yang berbeza dari segi konsep dianggap sebagai pertubuhan yang berlainan. Pertubuhan berkenaan diminta memberikan penyata yang berasingan bagi setiap kegiatannya dari segi nilai. Walau bagaimanapun, dari segi praktisnya akaun biasanya disediakan secara berpusat kerana kesukaran untuk memperoleh data yang berasingan bagi setiap unit atau cawangan. Entiti atau enterpris ini akan dianggap sebagai satu unit pelapor dan dibenarkan mengemukakan soal selidik yang menggabungkan semua unit atau cawangannya.

### 10. Prosedur Pengiraan

Secara amnya, prosedur berikut telah digunakan untuk memperoleh IPP:

- i. mengira relatif produk berdasarkan data pengeluaran;
- ii. mengira indeks industri berdasarkan purata aritmetik berwajaran relatif kuantiti; dan
- iii. mengira indeks untuk kumpulan dan sektor berdasarkan kepada indeks industri yang berkenaan.

IPP yang disusun ialah satu purata aritmetik berwajaran tahun asas bagi relatif kuantiti yang dikira mengikut formula Laspeyres:

$$I_i = \frac{\sum R_i W_i}{\sum W_i}$$

Di mana:

**I<sub>i</sub>** ialah indeks untuk item 'i'

**R<sub>i</sub>** ialah relatif produk untuk item 'i' bagi bulan berkenaan

**W<sub>i</sub>** ialah wajaran tahun asas bagi item 'i'

## INDEKS PENGELUARAN PERINDUSTRIAN MALAYSIA (2015=100)

IPP disusun pada peringkat sektor (1-digit), industri (peringkat 5-digit) dan komoditi (peringkat 10-digit) bagi sektor Perlombongan; sektor (1-digit), bahagian (peringkat 2-digit), kumpulan (peringkat 3-digit) dan industri (peringkat 5-digit) bagi sektor Pembuatan; dan pada peringkat sektor (1-digit) bagi sektor Elektrik. Di samping itu, indeks keseluruhan bagi ketiga-tiga sektor yang disatukan juga ditunjukkan.

### 11. Pelarasan Musim

Data siri masa adalah amat berguna untuk ahli ekonomi, pembuat dasar & keputusan serta penganalisis siri masa untuk mengenal pasti ciri-ciri penting siri ekonomi seperti arah aliran, turning point dan konsistensi antara penunjuk ekonomi yang lain. Kadangkala ciri ini sukar untuk diperhatikan kerana pergerakan bermusim. Oleh itu, sekiranya kesan bermusim boleh disingkirkan, arah aliran data siri ini dapat dilihat dengan lebih baik. Anggaran dan penyingkiran kesan bermusim dipanggil **pelarasan bermusim**.

Pelarasan bermusim adalah satu proses untuk mengenal pasti dan menyingkirkan bentuk pola bermusim yang biasa berlaku dalam tempoh satu tahun, yang mungkin juga merangkumi pengaruh dari kesan cuti yang bergerak dan hari bekerja/berdagang bagi suatu tempoh. Objektif utama proses ini adalah untuk menyerlahkan arah aliran dan pergerakan-pergerakan jangka pendek dalam siri ini.

Di Malaysia, kebanyakan data siri masa dipengaruhi oleh kesan bermusim. Oleh itu, untuk menghapus dan melaraskan kesan bermusim data siri masa ekonomi Malaysia, pakej standard pelarasan bermusim, X-12 ARIMA telah digunakan oleh Jabatan Perangkaan, Malaysia. Data siri masa ekonomi Malaysia juga kerap dipengaruhi oleh perayaan agama utama seperti Hari Raya Aidilfitri bagi umat Islam, Tahun Baru Cina untuk kaum Cina dan Deepavali untuk kaum India. Tarikh perayaan-perayaan ini tetap mengikut tahun lunar tetapi berbeza-beza mengikut kalendar *Gregorian*. Oleh itu, untuk mengangkar dan menyingkirkan kesan cuti yang bergerak dari data siri masa, satu prosedur telah dibangunkan iaitu *Seasonal Adjustment For Malaysia (SEAM)*.

### 12. Menghubungkan siri lama kepada tahun asas baru

Data siri tahun asas yang lama dihubungkan dengan tahun asas yang baru untuk memastikan terdapat siri yang berterusan bagi tujuan analisis. Metodologi ini membolehkan perbandingan dari segi tahun ke atas tahun dan bulan ke atas bulan dilaksanakan berdasarkan tahun asas yang baru. Siri yang lama dihubungkan dengan tahun asas yang baru menggunakan formula berikut:

$$\text{Linked indeks (tahun asas 2015)} = \text{indeks (tahun asas 2010)} \times \text{faktor}$$

Di mana:

$$\text{faktor} = \frac{\text{indeks tahunan (tahun asas 2015)}}{\text{indeks tahunan (tahun asas 2010)}}$$

### 13. Frekuensi Penyusunan

IPP disusun bagi setiap bulan takwim manakala indeks suku tahunan dan tahunan pula disusun berasaskan data siri bulanan.

### 14. Keperluan Kerahsiaan

Data yang digunakan bagi penyusunan IPP telah dipungut di bawah peruntukan **Akta Perangkaan 1965 (pindaan-1989)**. Akta ini mensyaratkan bahawa kandungan penyata individu adalah **sulit**. Selaras dengan peruntukan dalam Akta tersebut, hanya angka agregat diterbitkan.

## INDEKS PENGELUARAN PERINDUSTRIAN MALAYSIA (2015=100)

- 14. Pindaan** Pindaan akan dibuat ke atas angka yang telah diterbitkan berdasarkan data terkini yang diperoleh.
- 15. Simbol dan Singkatan**
- tanda negatif
  - t.t.t.l tidak terkelas di tempat lain
  - n.a tidak tersedia

## INDUSTRIAL PRODUCTION INDEX, MALAYSIA (2015=100)

- 1. Introduction**

*The publication for reference month January 2018 is the first release using 2015 as the base year in the compilation of Industrial Production Index (IPI), Malaysia. The base year 2015 replaced the base year 2010 which has been used before. It is the ninth time rebasing of IPI has been done by the Department of Statistics, Malaysia.*

*The IPI covers three major sectors namely Mining, Manufacturing and Electricity. This coverage is in line with the industrial sector definition in the International Recommendations for the Index of Industrial Production (IRIIP) 2010 issued by the United Nations.*
- 2. Objective**

*The main objective of the IPI is to measure the rate of change in the production of industrial commodities in real terms over time. Information from this short term indicators can be used to assist users in policy formulation and decision making.*
- 3. The Purpose of Rebasing**

*Rebasing is important to meet the demand needs for more accurate and reliable measurements. The rebasing and reweighting are conducted to ensure that:*

  - i. the scope and coverage of the index meet the needs of users;*
  - ii. the structure of the indices reflects the current activities of the industry; and*
  - iii. the weight used reflect the interests of the industry involved.*
- 4. Data Sources for Rebasing**

*Data from the Census of Mining and Quarrying and Census of Manufacturing Industries for reference year 2015 are used to rebase the IPI for the two sectors, while data from Tenaga Nasional Berhad (TNB) (including Independent Power Producers), Sabah Electricity Sdn. Bhd. (SESB) and Sarawak Energy Berhad (SEB) for the same reference year are used to update the IPI weights for the electricity sector.*
- 5. Scope and Coverage**

*The Mining sector covers the production of crude oil and natural gas which together accounted for 83.1% of the value of gross output and 89.6% of the census value added of the Mining sector in 2015.*

*The Manufacturing sector covers the production of 245 industries of a total of 259 industries. These 245 selected industries covered 70 groups of industry. The selection of the industries and groups is based on their contributions to the Census value added of the Manufacturing sector in 2015. These selected industries accounted for 99.97% of the Census value added and 99.98% of the Value of gross output of the Manufacturing sector in 2015. They were in turn represented by the production of 879 products which accounted for 91.70% in terms of the total sales value of the Manufacturing sector. The main characteristic for selection of products for these industries are based on of their contributions to the total sales value of that particular industry.*

*The electricity sector covers the generation of electricity by licensed plants to generate as well as to sell electricity. These plants accounted for 98.1% of the total electricity generated in 2015.*

## INDUSTRIAL PRODUCTION INDEX, MALAYSIA (2015=100)

6. **Weights** *The weights used for the computation of the IPI have been derived as follows:*
- i. **Sector Level**  
*The weights are in proportion to the Mining, Manufacturing and Electricity sectors' respective contribution to the Gross Domestic Product (GDP) of Malaysia at current prices 2015; and*
  - ii. **Group and Industry Level**  
*The weights are based on their proportion to the total census value added of the selected Groups and Industries in 2015. Within an industry, the weights of products have been determined on the basis of their proportion to the total sales value of that industry.*
7. **Sources of Monthly Data** *Monthly data on the production of crude oil and natural gas are obtained from PETRONAS.*
- Production data for 245 selected Industries in the Manufacturing sector are canvassed through the Monthly Manufacturing Survey where establishments with significant sales value are covered. Establishments with significant sales value are also covered purposively. Production data for the remaining three industries, namely crude palm oil, refined palm kernel oil and palm kernel oil are obtained from the Malaysian Palm Oil Board (MPOB).*
- Monthly data on the generation of electricity are obtained from Tenaga Nasional Berhad (TNB), Sabah Electricity Sdn. Bhd. (SESB) and Sarawak Energy Berhad (SEB).*
8. **Concepts and Definitions** *The concepts and definitions used in this publication are defined in the Malaysia Standard Industrial Classification (MSIC) 2008 which adhere to that of the International Standard Industrial Classification Of All Economic Activities (ISIC), Rev. 4.*
- Mining**  
*Mining is part of the Category "Mining and Quarrying". It is defined as "extraction, dressing and beneficiating of minerals occurring naturally as solids such as coal and ores, liquids such as crude oil or gases such as natural gas. Extraction of minerals is undertaken by such processes as underground or open casting (open pit) mining, dredging, quarrying, the operation of wells or evaporation pans, or by recovery from ore dumps or tailings. All supplementary activities aimed at preparing the crude materials for marketing, done generally near or at the mine site as crushing, screening, washing, clearing, grading, milling, flotation, melting, pelleting, topping are also included".*
- Manufacturing**  
*Manufacturing is defined as "the mechanical or chemical transformation of inorganic or organic substances into new products whether the work is performed by power driven machines or by hand, whether it is done by the factory or in the worker's home, and whether the products are sold at wholesale or retail". Assembly of the component parts of manufactured products is considered as manufacturing except in cases where the activity is appropriately classified under 'Construction'. Establishments primarily engaged in repair work are included and classified according to the type of product repaired.*

### **Electricity**

*Electricity refers to "the generation, collection, transmission or distribution of electric energy for sale to household, industrial or commercial users".*

### **Exports and Domestic Oriented Industries of Manufacturing Sector**

*The classification of export-oriented industry was determined using the threshold of value of exports exceeding 50 per cent of the sales value at aggregated of MSIC 3-digit and 2-digit while the industries which value of exports below the threshold are classified as domestic-oriented industry. The determination of classification was conducted using data from the Economic Census 2011, Economic Census 2016, Annual Economic Survey 2018 and Monthly External Trade statistics.*

- 9. Reporting Unit** *The reporting unit used in the survey was the establishment. An establishment is defined as "an economic unit engaged in one activity, under a single legal entity and operating in a single physical location". Each establishment was assigned an industry classification based on its principal activity. In the case of a multi-activity entity, units engaged in separate activities in the same location constituted distinct establishments. Thus, each branch of a multi-branch organization at a different location was conceptually treated as a different establishment. The establishment was requested to give separate returns for each activity in terms of value. However in practice, the accounts were centrally kept such that it was not possible to obtain separate data for each individual unit or branch. The entity or enterprise was treated as a single reporting unit and allowed to submit a consolidated questionnaire covering all the units or branches.*
- 10. Computational procedure** *In general, the procedure used to derive the IPI is as follows:*
- i. computing the product relatives based on production data;*
  - ii. computing industry indices based on the weighted arithmetic average of quantity relatives; and*
  - iii. computing the indices for groups and for sectors based on the individual industry indices.*

*The IPI compiled is a base year weighted arithmetic average of quantity relatives computed by the Laspeyres formula:*

$$I_i = \frac{\sum R_i W_i}{\sum W_i}$$

*Where:*

*I<sub>i</sub> is the index for item 'i'*

*R<sub>i</sub> is the product relative for item 'i' for the reference month*

*W<sub>i</sub> is the base year weight for item 'i'*

*The IPI is compiled at the sector (1-digit), industry (5-digit levels) and commodity (10-digit levels) for the Mining sector; sector (1-digit), division (2-digit levels), group (3-digit levels) and industry (5-digit) for the Manufacturing sector; and sector (1-digit) or the Electricity sector. In addition, an overall index for all the three sectors combined is also shown.*

## INDUSTRIAL PRODUCTION INDEX, MALAYSIA (2015=100)

- 11. Seasonal Adjustment** *Time-series data are very useful for economists, policy & decision makers and time-series analysts to identify the important features of economic series such as direction, turning point and consistency between other economic indicators. Sometimes this feature is difficult to observe because of seasonal movements. Thus, if the seasonal effect can be removed, the behaviour of the series would be better viewed. The estimation and removal of the seasonal effects is called seasonal adjustment.*  
*Seasonal adjustment is a process to identify and to remove the regular within a year seasonal pattern, which may also include the influences of moving holidays and working/trading days effect in each period. The ultimate objective of the process is to highlight the underlying trends and short-term movements in the series.*  
*In Malaysia, most of the time series data are affected by seasonal effects. Hence, to eliminate the seasonal effect as well as to seasonally adjust the Malaysian economic time series data, a standard seasonal adjustment package, X-12 ARIMA was used by Department of Statistics, Malaysia. Malaysian economic time series data also often affected by major religious festivals such as Eid-al Fitr for Muslims, Chinese New Year to the Chinese and the Indian Deepavali. These festivals' dates are fixed according to the lunar year but vary according to the Gregorian calendar. Therefore, to estimate and remove moving holiday effect from time-series data, a procedure was developed, namely Seasonal Adjustment for Malaysia (SEAM).*
- 12. Linking Historical to the New Base year** *The historical IPI are linked to the new base year to ensure there is a continuous time series for analysis purposes. This methodology has the advantageous that it preserves the year on year as well as the month on month growth rates for the newly linked series. The series are linked to the new series by normalizing them to the new base year using the formula:*
- $$\text{Linked index (based 2015)} = \text{index (based 2010)} \times \text{factor}$$
- Where:*
- $$\text{factor} = \frac{\text{annual index (based 2015)}}{\text{annual index (based 2010)}}$$
- 13. Fequency of Compilation** *The IPI is compiled for each calendar month while the quarterly and annual indices are computed from the monthly series.*
- 14. Confidentiality requirements** *The data used for the compilation of IPI have been collected under the provisions of the Statistics Act 1965 (Revised-1989). The Act stipulates that the contents of individual return are confidential. In conformity with the stipulations of this Act, only aggregated figures are published.*
- 15. Revision** *Revisions will be made to the published figures based on the latest data available.*
- 16. Symbols and abbreviations**
- negative sign
  - n.e.c not elsewhere classified
  - n.a not available





**LAMPIRAN**

*APPENDIX*





# LAMPIRAN

## APPENDIX

### Senarai Kumpulan, Industri dan Keterangan bagi Indeks Pembuatan (2010=100) berdasarkan Piawai Klasifikasi Industri Malaysia 2008, ver. 1.0

*List of Group, Industry and Description of Manufacturing Index (2010=100) based on the Malaysia Standard Industrial Classification 2008, ver. 1.0*

<b>Kumpulan Group</b>	<b>Kod MSIC 2008 MSIC Code 2008</b>	<b>Keterangan Description</b>
104	10401	Pembuatan minyak sawit mentah <i>Manufacture of crude palm oil</i>
	10402	Pembuatan minyak sawit bertapis <i>Manufacture of refined palm oil</i>
	10403	Pembuatan minyak isirong <i>Manufacture of palm kernel oil</i>
	10404	Pembuatan minyak sayuran mentah dan bertapis <i>Manufacture of crude and refined vegetable oil</i>
	10406	Pembuatan sebatian lemak masakan <i>Manufacture of compound cooking fats</i>
	105	10501
10502		Pembuatan susu pekat, tepung dan sejat <i>Manufacture of condensed, powdered and evaporated milk</i>
106	10611	Pengilangan beras <i>Rice milling</i>
	10613	Pengilangan tepung <i>Flour milling</i>
107	10711	Pembuatan biskut dan cookies <i>Manufacture of biscuits and cookies</i>
	10712	Pembuatan roti, kek dan produk bakeri lain <i>Manufacture of bread, cakes and other bakery products</i>
	10713	Pembuatan produk snek <i>Manufacture of snack products</i>
	10721	Pembuatan gula <i>Manufacture of sugar</i>
	10731	Pembuatan produk koko <i>Manufacture of cocoa products</i>
	10732	Pembuatan coklat dan produk coklat <i>Manufacture of chocolate and chocolate products</i>
	10733	Pembuatan konfeksi gula <i>Manufacture of sugar confectionery</i>
	10741	Pembuatan bihun, mi dan produk lain yang berkaitan <i>Manufacture of meehoon, noodles and other related product</i>
	10750	Pembuatan makanan dan hidangan tersedia <i>Manufacture of prepared meals and dishes</i>
	10791	Pembuatan kopi <i>Manufacture of coffee</i>
10793	Pembuatan sos dan bahan perasa <i>Manufacture of sauces and condiments</i>	

## LAMPIRAN APPENDIX

Kumpulan Group	Kod MSIC 2008 MSIC Code 2008	Keterangan Description
	10794	Pembuatan rempah ratus dan serbuk kari <i>Manufacture of spices and curry powder</i>
	10799	Pembuatan produk makanan lain t.t.t.l. <i>Manufacture of other food products n.e.c.</i>
110	11030	Pembuatan minuman keras malt dan malt <i>Manufacture of malt liquors and malt</i>
	11041	Pembuatan minuman ringan <i>Manufacture of soft drinks</i>
	11042	Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan <i>Production of natural mineral waters and other bottled waters</i>
120	12000	Pembuatan produk tembakau <i>Manufacture of tobacco products</i>
131	13110	Penyediaan dan pemintalan gentian tekstil <i>Preparation and spinning of textile fibres</i>
	13120	Penenunan tekstil <i>Weaving of textiles</i>
	13132	Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabric <i>Dyeing, bleaching, printing and finishing of yarns and fabrics</i>
141	14102	Pembuatan pakaian <i>Manufacture of clothings</i>
151	15120	Pembuatan bagasi, beg tangan dan seumpamanya, pelana dan abah-abah <i>Manufacture of luggage, handbags and the like, saddlery and harness</i>
152	15201	Pembuatan kasut kulit <i>Manufacture of leather footwear</i>
	15203	Pembuatan kasut getah <i>Manufacture of rubber footwear</i>
161	16100	Pengilangan dan pengetaman kayu <i>Sawmilling and planning of wood</i>
162	16211	Pembuatan kepingan venier dan papan lapis <i>Manufacture of veneer sheets and plywood</i>
	16212	Pembuatan papan partikel dan papan gentian <i>Manufacture of particle board and fibreboard</i>
	16221	Pertukangan kayu untuk jurubina <i>Manufacture of builders' carpentry</i>
	16230	Pembuatan bekas kayu <i>Manufacture of wooden containers</i>
170	17010	Pembuatan pulpa, kertas dan kertas tebal <i>Manufacture of pulp, paper and paperboard</i>
	17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal <i>Manufacture of corrugated paper and paperboard and of containers of paper and paperboard</i>
	17091	Pembuatan sampul surat dan kad surat <i>Manufacture of envelopes and letter-card</i>

# LAMPIRAN

## APPENDIX

Kumpulan Group	Kod MSIC 2008 MSIC Code 2008	Keterangan Description
	17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi <i>Manufacture of household and personal hygiene paper</i>
	17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding <i>Manufacture of gummed or adhesive paper in strips or rolls and labels and wallpaper</i>
181	18110	Percetakan <i>Printing</i>
	18120	Aktiviti perkhidmatan berkaitan percetakan <i>Service activities related to printing</i>
192	19201	Pembuatan produk petroleum bertapis <i>Manufacture of refined petroleum products</i>
201	20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat <i>Manufacture of liquefied or compressed inorganic industrial or medical gases</i>
	20112	Pembuatan kimia organik asas <i>Manufacture of basic organic chemicals</i>
	20113	Pembuatan sebatian bukan organik <i>Manufacture of inorganic compounds</i>
	20121	Pembuatan baja <i>Manufacture of fertilizers</i>
	20131	Pembuatan plastik dalam bentuk primer <i>Manufacture of plastics in primary forms</i>
202	20210	Pembuatan racun perosak dan produk agrokimia lain <i>Manufacture of pesticides and other agrochemical products</i>
	20221	Pembuatan cat, varnis dan penyadur dan mastic <i>Manufacture of paints, varnishes and similar coatings ink and mastics</i>
	20222	Pembuatan dakwat cetak <i>Manufacture of printing ink</i>
	20231	Pembuatan sabun dan bahan pencuci, penyediaan membersih dan mengilat <i>Manufacture of soap and detergents, cleaning and polishing preparations</i>
	20232	Pembuatan pewangi dan penyediaan dandanan diri <i>Manufacture of perfumes and toilet preparations</i>
	20291	Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials <i>Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials</i>
	20299	Pembuatan produk kimia lain t.t.t.l. <i>Manufacture of other chemical products n.e.c.</i>
210	21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan <i>Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments</i>

## LAMPIRAN APPENDIX

Kumpulan Group	Kod MSIC 2008 MSIC Code 2008	Keterangan Description
221	22111	Pembuatan tayar getah untuk kenderaan <i>Manufacture of rubber tyres for vehicles</i>
	22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup <i>Manufacture of interchangeable tyre treads and retreading rubber tyres</i>
	22192	Pembuatan sarung tangan getah <i>Manufacture of rubber gloves</i>
	22193	Pengilangan semula getah dan prosesan susu getah <i>Rubber remilling and latex processing</i>
	22199	Pembuatan produk getah lain yang t.t.t.l. <i>Manufacture of other rubber products n.e.c.</i>
222	22201	Pembuatan produk plastik separa siap <i>Manufacture of semi-manufactures of plastic products</i>
	22202	Pembuatan produk plastik siap <i>Manufacture of finished plastic products</i>
	22203	Pembuatan artikel plastik untuk pembungkusan barangan <i>Manufacture of plastic articles for the packing of goods</i>
	22204	Pembuatan barangan plastik jurubina <i>Manufacture of builders' plastics ware</i>
	22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastic <i>Manufacture of plastic tableware, kitchenware and toilet articles</i>
	22209	Pembuatan pelbagai produk plastik t.t.t.l. <i>Manufacture of diverse plastic products n.e.c.</i>
231	23101	Pembuatan kaca leper, termasuk kaca leper berdawai, berwarna atau sedikit berwarna <i>Manufacture of flat glass, including wired, coloured or tinted flat glass</i>
	23109	Pembuatan produk kaca lain t.t.t.l. <i>Manufacture of other glass products n.e.c.</i>
239	23921	Pembuatan seramik bukan refraktori <i>Manufacture of non-refractory ceramic</i>
	23930	Pembuatan produk porselin dan seramik lain <i>Manufacture of other porcelain and ceramic products</i>
	23941	Pembuatan simen hidraulik <i>Manufacture of hydraulic cement</i>
	23942	Pembuatan kapur dan plaster <i>Manufacture of lime and plaster</i>
	23951	Pembuatan konkrit dan mortar siap bancuh dan bancuhan kering <i>Manufacture of ready-mix and dry-mix concrete and mortars</i>
	23952	Pembuatan konkrit pratuangan, simen atau artikel batu buatan yang digunakan dalam pembinaan <i>Manufacture of precast concrete, cement or artificial stone articles for use in construction</i>
	23953	Pembuatan komponen struktur pasang siap untuk bangunan atau kejuruteraan awam dari simen, batu atau konkrit buatan <i>Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone</i>

# LAMPIRAN

## APPENDIX

Kumpulan Group	Kod MSIC 2008 MSIC Code 2008	Keterangan Description
	23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l. <i>Manufacture of other articles of concrete, cement and plaster n.e.c.</i>
	23990	Pembuatan produk mineral bukan logam lain t.t.t.l. <i>Manufacture of other non-metallic mineral products n.e.c.</i>
241	24101	Pengeluaran jongkong besi dan spiegeleisen dalam bentuk jongkong, blok atau dalam bentuk asal lain <i>Production of pig iron and spiegeleisen in pigs, blocks or other primary forms</i>
	24102	Pembuatan batang dan rod keluli tahan karat atau keluli aloi lain <i>Production of bars and rods of stainless steel or other alloy steel</i>
	24103	Pembuatan tiub tidak berkelim, dengan penggelekan, picitan atau tempaan panas, atau dengan tempaan atau penggelekan sejuk <i>Manufacture of seamless tubes, by hot rolling, hot extrusion or hot drawing, or by cold drawing or cold rolling</i>
	24109	Pembuatan produk besi asas dan keluli lain t.t.t.l. <i>Manufacture of other basic iron and steel products n.e.c.</i>
242	24201	Peleburan timah <i>Tin smelting</i>
	24202	Pengeluaran aluminium daripada alumina <i>Production of aluminium from alumina</i>
	24209	Pembuatan logam asas berharga dan logam bukan ferus lain t.t.t.l. <i>Manufacture of other basic precious and other non-ferrous metals n.e.c.</i>
251	25113	Pembuatan pintu, tingkap dan bingkai, penutup tingkap dan pintu pagar daripada logam <i>Manufacture of metal doors, windows and their frames, shutters and gates</i>
	25119	Pembuatan produk struktur logam lain <i>Manufacture of other structural metal products</i>
	25120	Pembuatan tangki, takungan dan kontena daripada logam <i>Manufacture of tanks, reservoirs and containers of metal</i>
259	25910	Tempaan, tekanan, hentakan dan bentuk gelekan logam; serbuk metalurgi <i>Forging, pressing, stamping and roll-forming of metal; powder metallurgy</i>
	25920	Rawatan dan penyalutan logam; menggunakan mesin <i>Treatment and coating of metals; machining</i>
	25991	Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat <i>Manufacture of tins and cans for food products, collapsible tubes and boxes</i>
	25992	Pembuatan kabel, plaited bands (jalur/pita berpintal) dan artikel seumpamanya daripada logam <i>Manufacture of metal cable, plaited bands and similar articles</i>
	25993	Pembuatan bolt, skru, nat dan produk uliran seumpamanya <i>Manufacture of bolts, screws, nuts and similar threaded products</i>
	25999	Pembuatan produk lain yang direka daripada logam t.t.t.l. <i>Manufacture of any other fabricated metal products n.e.c.</i>
261	26101	Pembuatan diod, transistor dan alatan semikonduktor yang seumpamanya <i>Manufacture of diodes, transistors and similar semiconductor devices</i>

# LAMPIRAN APPENDIX

Kumpulan Group	Kod MSIC 2008 MSIC Code 2008	Keterangan Description
	26102	Pembuatan litar elektronik bersepadu dengan pemasangan mikro <i>Manufacture of electronic integrated circuits micro assemblies</i>
	26103	Pembuatan kapasitor dan perintang elektrik <i>Manufacture of electrical capacitors and resistors</i>
	26104	Pembuatan papan litar bercetak <i>Manufacture of printed circuit boards</i>
	26105	Pembuatan komponen paparan <i>Manufacture of display components</i>
	26109	Pembuatan komponen lain untuk aplikasi elektronik <i>Manufacture of other components for electronic applications</i>
262	26201	Pembuatan computer <i>Manufacture of computers</i>
	26202	Pembuatan kelengkapan peranti <i>Manufacture of peripheral equipment</i>
263	26300	Pembuatan peralatan komunikasi <i>Manufacture of communication equipment</i>
264	26400	Pembuatan elektronik pengguna <i>Manufacture of consumer electronics</i>
265	26511	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan <i>Manufacture of measuring, testing, navigating and control equipment</i>
	26520	Pembuatan jam tangan dan jam dan bahagiannya <i>Manufacture of watches and clocks and parts</i>
266	26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik <i>Manufacture of irradiation, electro medical and electrotherapeutic equipment</i>
267	26701	Pembuatan instrumen dan kelengkapan optikal <i>Manufacture of optical instruments and equipment</i>
	26702	Pembuatan peralatan fotografi <i>Manufacture of photographic equipment</i>
271	27101	Pembuatan motor elektrik, penjana dan transformer <i>Manufacture of electric motors, generators and transformers</i>
	27102	Pembuatan perkakasan pengagihan dan pengawalan elektrik <i>Manufacture of electricity distribution and control apparatus</i>
273	27310	Pembuatan kabel gentian optikal <i>Manufacture of fibre optic cables</i>
	27320	Pembuatan wayar dan kabel elektronik dan elektrik lain <i>Manufacture of other electronic and electric wires and cables</i>
275	27500	Pembuatan perkakasan domestic <i>Manufacture of domestic appliances</i>
281	28120	Pembuatan alat-alat kuasa bendalir <i>Manufacture of fluid power equipment</i>
	28130	Pembuatan pam, pemampat, kepala paip dan injap lain <i>Manufacture of other pumps, compressors, taps and valves</i>
	28140	Pembuatan penggalas, gear, elemen gear dan pemanduan <i>Manufacture of bearings, gears, gearing and driving elements</i>

# LAMPIRAN

## APPENDIX

Kumpulan Group	Kod MSIC 2008 MSIC Code 2008	Keterangan Description
	28160	Pembuatan kelengkapan mengangkat dan mengendali <i>Manufacture of lifting and handling equipment</i>
	28180	Pembuatan alatan tangan yang menggunakan kuasa dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatic <i>Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives</i>
	28192	Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor <i>Manufacture of air-conditioning machines, including for motor vehicles</i>
282	28220	Pembuatan jentera pembentukan logam dan alatan mesin <i>Manufacture of metal-forming machinery and machine tools</i>
	28290	Pembuatan lain-lain mesin bertujuan khas t.t.t.l. <i>Manufacture of other special-purpose machinery n.e.c.</i>
291	29101	Pembuatan kereta penumpang <i>Manufacture of passenger cars</i>
293	29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor <i>Manufacture of parts and accessories for motor vehicles</i>
301	30110	Pembinaan kapal dan struktur terapung <i>Building of ships and floating structures</i>
303	30300	Pembuatan pesawat dan kapal angkasa dan jentera berkaitan <i>Manufacture of air and spacecraft and related machinery</i>
309	30910	Pembuatan motosikal <i>Manufacture of motorcycles</i>
310	31001	Pembuatan perabot kayu dan rotan <i>Manufacture of wooden and cane furniture</i>
331	33150	Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal <i>Repair and maintenance of transport equipment except motorcycles and bicycles</i>