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**2023**  
**SUKU KETIGA**  
THIRD QUARTER

**STATISTIK**  
**KAPASITI PENGGUNAAN**  
**INDUSTRI PEMBUATAN**  
MANUFACTURING INDUSTRY  
CAPACITY UTILISATION STATISTICS

JABATAN PERANGKAAAN MALAYSIA  
DEPARTMENT OF STATISTICS MALAYSIA





KEMENTERIAN EKONOMI  
JABATAN PERANGKAAN MALAYSIA

# STATISTIK KAPASITI PENGGUNAAN INDUSTRI PEMBUATAN MANUFACTURING INDUSTRY CAPACITY UTILISATION STATISTICS

**SUKU KETIGA** **2023**  
*THIRD QUARTER*

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## Pemakluman

Jabatan Perangkaan Malaysia (DOSM) telah melancarkan OpenDOSM NextGen sebagai medium yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai data dan boleh diakses melalui portal <https://open.dosm.gov.my>.

DOSM akan menjalankan Banci Pertanian pada tahun 2024. Mohon layari <https://www.myagricensus.gov.my> untuk maklumat lanjut. Tema adalah "Banci Pertanian, Kunci Kemajuan Pertanian".

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

## Announcement

*The Department of Statistics Malaysia (DOSM) has launched OpenDOSM NextGen as a medium that provides a catalog of data and visualisations to facilitate users' analysis of various data and can be accessed through <https://open.dosm.gov.my>.*

*DOSM will conduct the Agricultural Census in 2024. Please visit <https://www.myagricensus.gov.my> for more information. The theme is "Agriculture Census, Key to Agricultural Development."*

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

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## KATA PENGANTAR

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Penerbitan Statistik Kapasiti Penggunaan Industri Pembuatan diterbitkan oleh Jabatan Perangkaan Malaysia (DOSM). Penerbitan ini memaparkan statistik kapasiti penggunaan bagi sektor Pembuatan di Malaysia yang diterbitkan secara suku tahunan mulai Suku Pertama 2023. Statistik ini disusun mulai Januari 2015 sehingga September 2023 yang memberikan indikator tambahan kepada pengguna dalam menilai prestasi sektor Pembuatan di Malaysia.

Konsep yang digunakan dalam penerbitan ini adalah berpandukan kepada *International Recommendations for Industrial Statistics 2008, United Nations Statistics Division* manakala definisi Pembuatan adalah konsisten dengan Piawaian Klasifikasi Industri Malaysia (MSIC) 2008 Ver. 1.0. Statistik ini juga boleh digunakan sebagai sumber rujukan oleh kerajaan, ahli ekonomi, ahli akademik, pihak swasta serta individu bagi tujuan perancangan dan penggubalan dasar, analisis ekonomi, unjuran dan membantu dalam perancangan pembangunan perniagaan.

Penerbitan ini mengandungi tiga bahagian. Bahagian pertama memaparkan infografik dan ringkasan penemuan. Bahagian kedua memuatkan jadual terperinci manakala bahagian ketiga menerangkan aspek teknikal seperti skop & liputan dan konsep & definisi yang digunakan bagi memudahkan pengguna memahami statistik yang diterbitkan.

Jabatan Perangkaan Malaysia merakamkan setinggi-tinggi penghargaan atas kerjasama dan sumbangan yang diberikan oleh semua pihak dalam membekalkan data yang diperlukan dan menyumbang kepada kejayaan penerbitan ini. Setiap maklum balas dan cadangan untuk penambahbaikan penerbitan ini pada masa akan datang amatlah dihargai.

**DATO' SRI DR. MOHD UZIR MAHIDIN**  
Ketua Perangkawan Malaysia

**November 2023**



## **PREFACE**

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*The Manufacturing Industry Capacity Utilisation Statistics is a publication published by the Department of Statistics Malaysia (DOSM). The publication presents capacity utilisation statistics for the Manufacturing sector in Malaysia which published on quarterly basis since First Quarter 2023. The statistics was compiled from January 2015 until September 2023 which provide additional indicators for the users in assessing the performance of the Manufacturing sector in Malaysia.*

*The concept used in this compilation is guided by the International Recommendations for Industrial Statistics 2008, United Nations Statistics Division while the definition of Manufacturing is consistent with Malaysia Standard Industrial Classification (MSIC) 2008 Ver. 1.0. These statistics can be used by government agencies, economists, academicians, private sectors and individuals for planning and formulating policies, economic analysis, projections and assisting in business development planning.*

*This publication is divided into three main parts. The first part displays the infographic and summary of findings. The second part shows the detailed statistical tables meanwhile the third part explains technical aspects such as scope & coverage and concepts & definitions used to assist users to understand the published statistics.*

*Department of Statistics Malaysia (DOSM) gratefully acknowledges the co-operation and contribution of all parties who have provided the required data and contributed to the success of this publication. Every feedback and suggestion towards improving future publications is highly appreciated.*

**DATO' SRI DR. MOHD UZIR MAHIDIN**  
*Chief Statistician Malaysia*

**November 2023**



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# Ringkasan Penemuan

## *Summary of Findings*



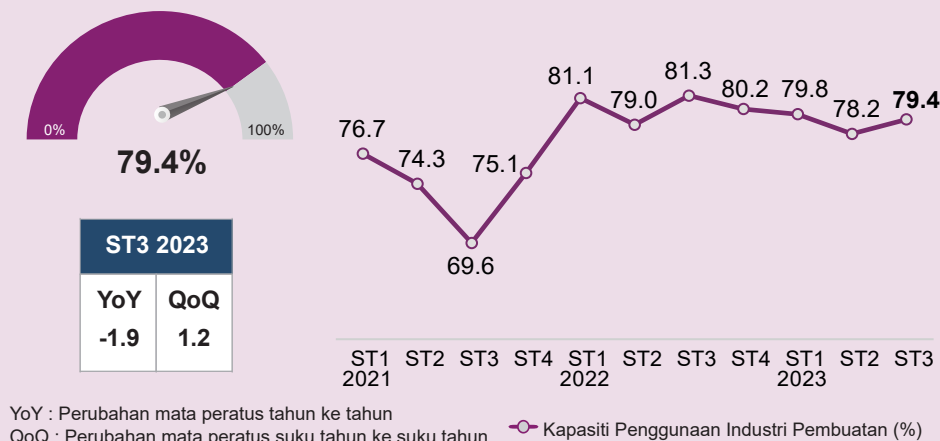
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## STATISTIK KAPASITI PENGGUNAAN INDUSTRI PEMBUATAN SUKU KETIGA 2023

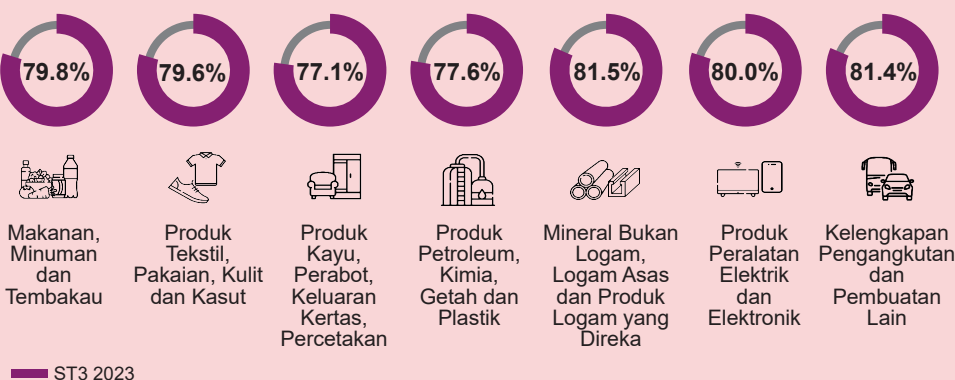
Industri Pembuatan beroperasi pada kapasiti penggunaan 79.4 peratus pada suku ketiga 2023

### Kapasiti Penggunaan Industri Pembuatan, ST1 2021 - ST3 2023

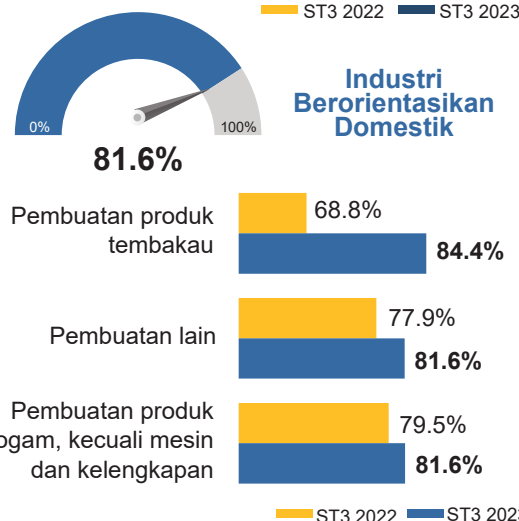
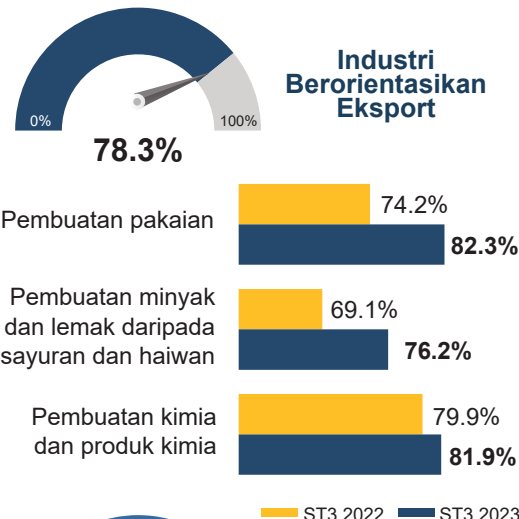


### Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor

Kadar kapasiti penggunaan tertinggi pada suku ketiga 2023 dicatatkan oleh subsektor **Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka** dengan **81.5 peratus**

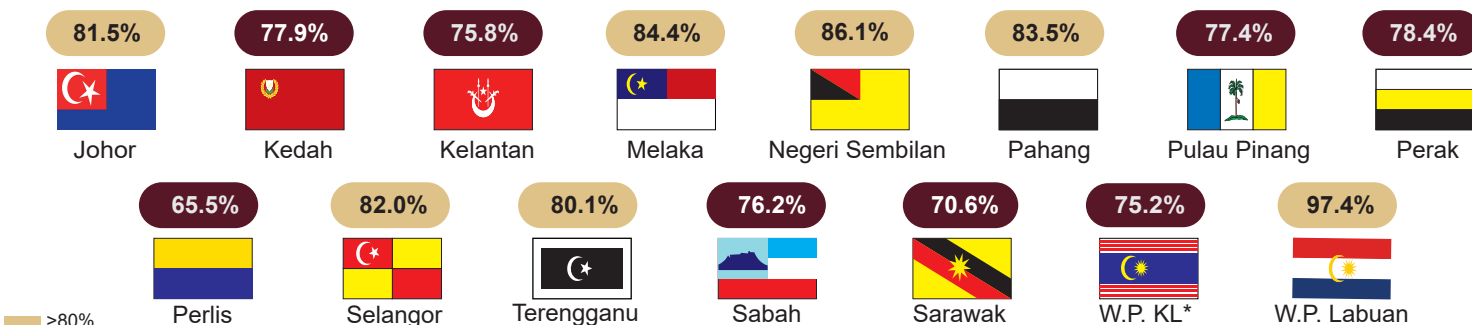


Peningkatan tiga tertinggi dalam industri berorientasikan eksport dan domestik pada ST3 2023



### Kapasiti Penggunaan Industri Pembuatan mengikut Negeri

Industri Pembuatan di tujuh negeri beroperasi pada kapasiti lebih 80 peratus pada suku ketiga 2023 iaitu **W.P. Labuan (97.4%)**, **Negeri Sembilan (86.1%)**, **Melaka (84.4%)**, **Pahang (83.5%)**, **Selangor (82.0%)**, **Johor (81.5%)** dan **Terengganu (80.1%)**



**Apakah yang dimaksudkan dengan Kapasiti Penggunaan Industri Pembuatan?**

Kapasiti penggunaan merujuk kepada nisbah output sebenar yang dihasilkan berbanding pengeluaran output pada kapasiti penuh melalui gabungan optimum mesin, bahan mentah dan buruh

**Kapasiti Penggunaan**

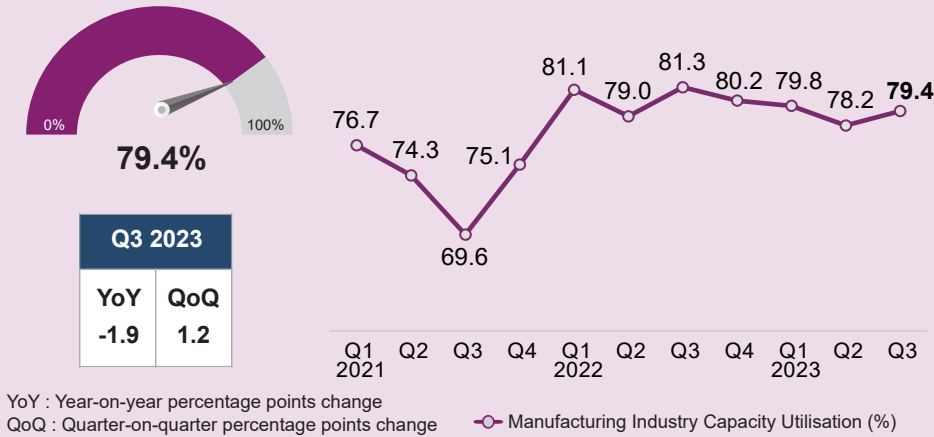
$$= \frac{\text{Nilai Pengeluaran Sebenar}}{\text{Nilai Pengeluaran Penuh}} \times 100$$



# MANUFACTURING INDUSTRY CAPACITY UTILISATION STATISTICS THIRD QUARTER 2023

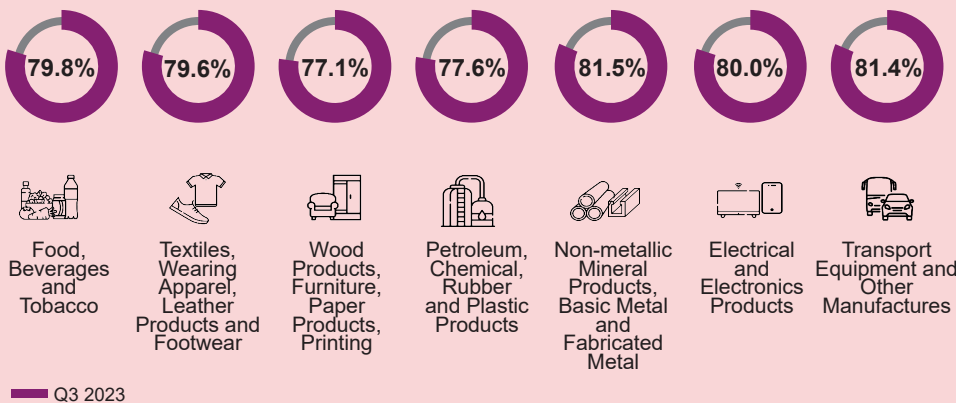
The Manufacturing industry operated at 79.4 per cent capacity utilisation in the third quarter of 2023

## Manufacturing Industry Capacity Utilisation, Q1 2021 - Q3 2023

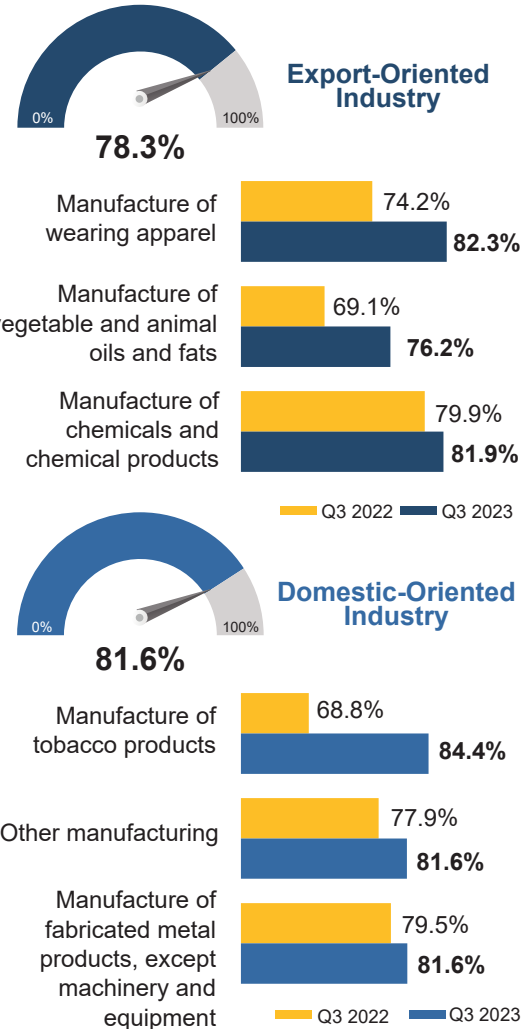


## Manufacturing Industry Capacity Utilisation by Sub-sector

The highest capacity utilisation rate in the third quarter of 2023 was recorded by the sub-sector of **Non-metallic Mineral Products, Basic Metal and Fabricated Metal** with **81.5 per cent**

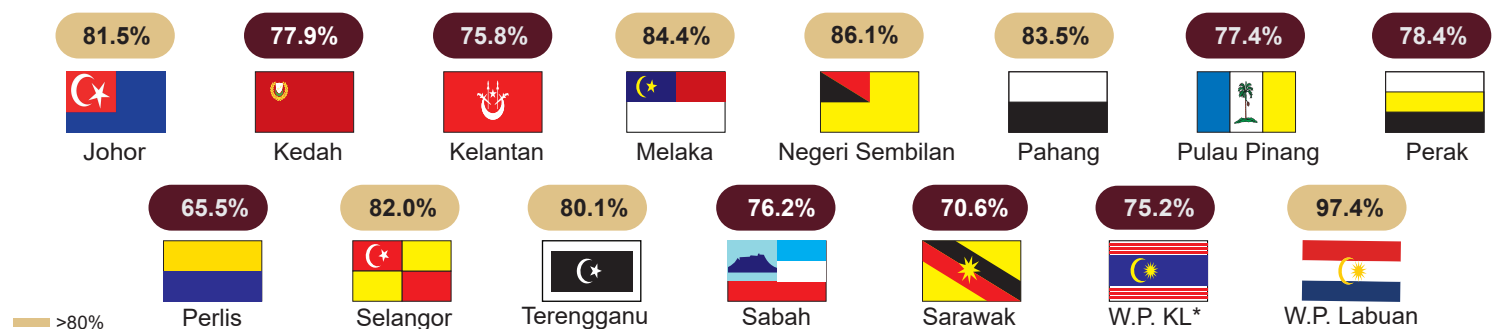


## Top three increments in exports-oriented and domestic-oriented industries in Q3 2023



## Manufacturing Industry Capacity Utilisation by State

The Manufacturing industry in seven states operated at a capacity exceed 80 per cent in the third quarter of 2023 namely **W.P. Labuan (97.4%)**, **Negeri Sembilan (86.1%)**, **Melaka (84.4%)**, **Pahang (83.5%)**, **Selangor (82.0%)**, **Johor (81.5%)** and **Terengganu (80.1%)**



## What is meant by Manufacturing Industry Capacity Utilisation?

Capacity utilisation refers to a ratio of actual output produced to the production of output at full capacity through an optimal combination of machinery, raw materials and labour

## Capacity Utilisation

$$= \frac{\text{Actual Level of Output}}{\text{Full Level of Output}} \times 100$$



## 1.0 Pengenalan

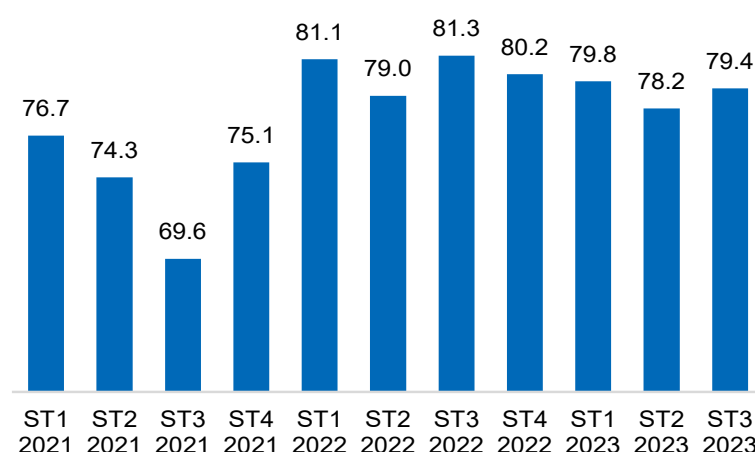
Penerbitan ini memaparkan statistik kapasiti penggunaan bagi industri Pembuatan yang diperoleh daripada Survei Pembuatan Bulanan yang dijalankan oleh Jabatan Perangkaan Malaysia. Statistik yang dilaporkan dalam penerbitan ini adalah dari tempoh suku pertama 2015 hingga suku ketiga 2023 di peringkat nasional dan negeri. Sebagai tambahan, data tahunan dan bulanan juga dilaporkan dalam penerbitan ini.

Kapasiti penggunaan merujuk kepada nisbah output sebenar yang dihasilkan berbanding pengeluaran output pada kapasiti penuh melalui gabungan optimum mesin, bahan mentah dan buruh. Konsep yang digunakan dalam penerbitan ini adalah berpandukan kepada *International Recommendations for Industrial Statistics 2008, United Nations Statistics Division* manakala definisi Pembuatan adalah konsisten dengan Piawaian Klasifikasi Industri Malaysia (MSIC) 2008 Ver. 1.0.

## 2.0 Prestasi Kapasiti Penggunaan Industri Pembuatan di Malaysia, Suku Ketiga 2023

Industri Pembuatan beroperasi dengan kapasiti penggunaan 79.4 peratus pada suku ketiga 2023, berkurang 1.9 mata peratus berbanding setahun yang lalu (ST3 2022: 81.3%). Penurunan dicatatkan dalam hampir kesemua subsektor kecuali Pembuatan makanan, minuman & tembakau (+1.9 mata peratus) dan Pembuatan produk mineral bukan logam, logam asas & produk logam yang direka (+1.6 mata peratus). Berbanding suku tahun sebelumnya, kapasiti penggunaan industri Pembuatan terus menaik kepada 1.2 mata peratus (ST2 2023: 78.2%; -0.8 mata peratus) (**Paparan 1**).

**Paparan 1: Kapasiti Penggunaan Industri Pembuatan, ST1 2021 - ST3 2023**



Bagi asas bulanan, kadar penggunaan industri Pembuatan menaik pada September 2023 dengan mencapai 80.0 peratus selepas dua bulan beroperasi pada 78.6 peratus (Julai 2023) dan 79.6 peratus (Ogos 2023) (Jadual 1c). Faktor utama yang menyumbang kepada kapasiti pengeluaran yang lebih rendah adalah permintaan yang rendah, bekalan bahan yang tidak mencukupi serta pembaikan & penyelenggaraan mesin & peralatan.

## 3.0 Kapasiti Penggunaan mengikut Subsektor Pembuatan, Suku Ketiga 2023

Subsektor Pembuatan produk mineral bukan logam, logam asas & produk logam yang direka menunjukkan kadar kapasiti penggunaan yang tertinggi pada suku ketiga 2023 dengan 81.5 peratus sebanyak 1.6 mata peratus tahun ke tahun; diikuti oleh Pembuatan kelengkapan pengangkutan & pembuatan lain (81.4%; -2.8 mata peratus) dan Pembuatan produk elektrik & elektronik (80.0%; -2.2 mata peratus). Sementara itu, kadar kapasiti penggunaan bagi subsektor yang lain adalah di bawah 80.0 peratus dengan yang paling rendah direkodkan oleh subsektor Pembuatan kayu, perabot, produk kertas & percetakan pada 77.1 peratus (ST3 2022: 78.9%; -1.8 mata peratus).

Berbanding suku tahun sebelum, hampir kesemua subsektor menunjukkan peningkatan pada suku ketiga 2023, kecuali subsektor Pembuatan tekstil, pakaian, kulit & kasut jatuh kepada negatif 0.4 mata peratus. Pembuatan produk makanan, minuman & tembakau menunjukkan peningkatan tertinggi dengan 3.3 mata peratus kepada 79.8 peratus berbanding suku kedua 2023 (ST2 2023: 76.5%; -5.4 mata peratus) (**Paparan 2**).

**Paparan 2: Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor, ST3 2023**

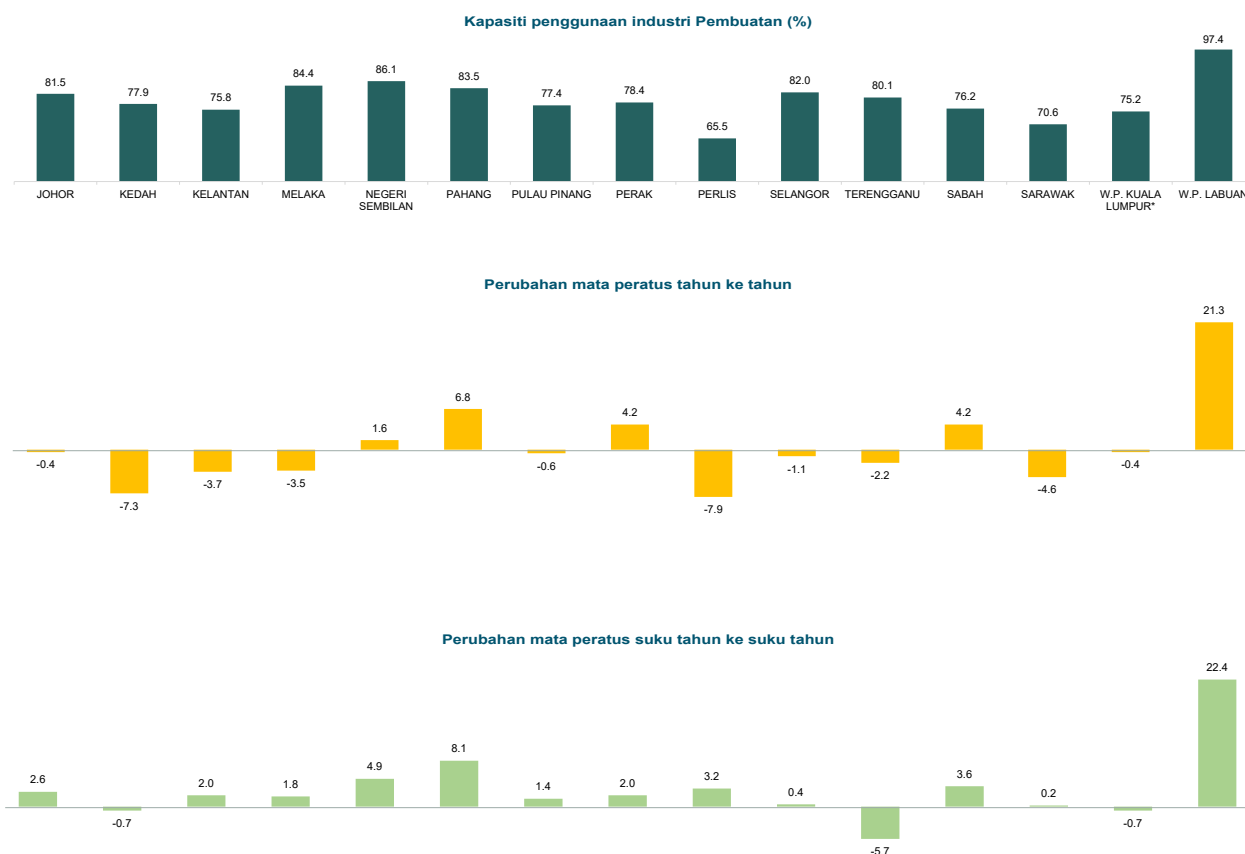
|                                                                                                                                                         | Kapasiti penggunaan Industri Pembuatan (%) | Perubahan mata peratus tahun ke tahun | Perubahan mata peratus suku tahun ke suku tahun |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|-------------------------------------------------|
|  Makanan, minuman dan tembakau                                        | 79.8                                       | 1.9                                   | 3.3                                             |
|  Tekstil, pakaian, kulit dan kasut                                   | 79.6                                       | -2.8                                  | -0.4                                            |
|  Produk kayu, perabot, keluaran kertas, percetakan                   | 77.1                                       | -1.8                                  | 0.8                                             |
|  Petroleum, kimia, getah dan plastik                                 | 77.6                                       | -3.1                                  | 0.5                                             |
|  Produk mineral bukan logam, logam asas dan produk logam yang direka | 81.5                                       | 1.6                                   | 2.2                                             |
|  Produk elektrik dan elektronik                                      | 80.0                                       | -2.2                                  | 0.6                                             |
|  Kelengkapan pengangkutan dan pembuatan lain                         | 81.4                                       | -2.8                                  | 0.7                                             |

## 4.0 Kapasiti Penggunaan Industri Pembuatan mengikut Negeri

Secara keseluruhan, pada suku ketiga 2023, kapasiti penggunaan di tujuh negeri melepasi paras kadar nasional iaitu WP Labuan (97.4%), Negeri Sembilan (86.1%), Melaka (84.4%), Pahang (83.5%), Selangor (82.0%), Johor (81.5%) and Terengganu (80.1%). Sementara itu, negeri lain merekodkan kadar kapasiti yang lebih rendah dari paras purata nasional, dengan Perlis terus merekodkan kadar terendah pada 65.5 peratus.

Berbanding setahun yang lalu, WP Labuan merekodkan peningkatan tertinggi dengan kenaikan 21.3 mata peratus, diikuti oleh Pahang yang meningkat 6.8 mata peratus. Secara suku tahunan, Selangor yang merupakan salah satu penyumbang terbesar kepada industri Pembuatan mencatatkan kenaikan 0.4 mata peratus dalam kadar kapasiti penggunaan (**Paparan 3**).

## Paparan 3: Kapasiti Penggunaan Industri Pembuatan mengikut Negeri, ST3 2023



\*Termasuk W.P. Putrajaya

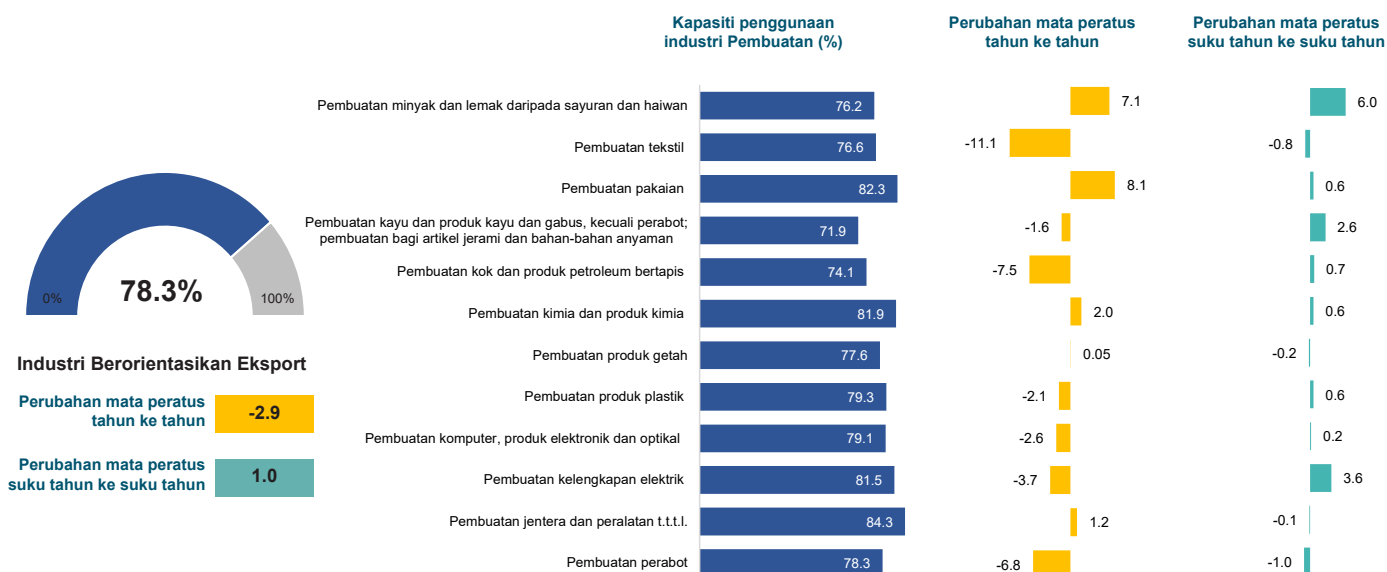
## 5.0 Kapasiti Penggunaan dalam Industri Berorientasikan Eksport dan Domestik

Kapasiti penggunaan bagi industri berorientasikan eksport merosot 2.9 mata peratus kepada 78.3 peratus pada suku ketiga 2023 (**Paparan 4**). Hampir kesemua industri dalam segmen ini mencatatkan kemerosotan kecuali Pembuatan pakaian yang menunjukkan peningkatan 8.1 mata peratus kepada 82.3 peratus; dan Pembuatan minyak dan lemak daripada sayuran dan haiwan yang naik 7.1 mata peratus kepada 76.2 peratus. Tambahan lagi, Pembuatan kimia dan produk kimia serta Pembuatan jentera dan peralatan t.t.t.l masing-masing turut mengalami peningkatan 2.0 mata peratus dan 1.2 mata peratus.

Namun begitu, kadar kapasiti penggunaan bagi industri berorientasikan domestik tumbuh sederhana 0.2 mata peratus, mencapai 81.6 peratus (**Paparan 5**). Tiga kenaikan tertinggi direkodkan oleh Pembuatan produk tembakau (84.4%; +15.6 mata peratus); Pembuatan lain (81.6%; +3.7 mata peratus); dan Pembuatan produk logam, kecuali mesin dan kelengkapan (81.6%; +2.1 mata peratus).

Bagi perbandingan dengan suku tahun sebelum, kedua-dua industri berorientasikan eksport dan domestik masing-masing merekodkan kenaikan 1.0 mata peratus dan 1.4 mata peratus.

## Paparan 4: Kapasiti Penggunaan Industri Pembuatan Berorientasikan Eksport



## Paparan 5: Kapasiti Penggunaan Industri Pembuatan Berorientasikan Domestik



## 6.0 Prestasi Indeks Pengeluaran Perindustrian (IPP), Suku Ketiga 2023

Pada suku ketiga 2023, IPP mencatatkan penurunan marginal 0.04 peratus tahun ke tahun berbanding pertumbuhan negatif 0.3 peratus yang direkodkan pada suku kedua 2023. Pada tempoh tersebut, sektor Perlombongan merosot 0.4 peratus, manakala sektor Pembuatan menurun sedikit sebanyak 0.1 peratus. Sementara itu, penjanaan Elektrik menunjukkan peningkatan sebanyak 2.0 peratus. Berbanding suku tahun sebelum, IPP berkembang sebanyak 4.2 peratus.

Pertumbuhan marginal negatif 0.1 peratus dalam output sektor Pembuatan (ST2 2023: 0.1%) turut dicerminkan melalui peningkatan kapasiti penggunaan industri pembuatan pada suku ketiga 2023 ini. Perbandingan suku tahun ke suku tahun, sektor Pembuatan berkembang 5.5 peratus berbanding negatif 2.1 peratus direkodkan pada suku kedua 2023.



## 1.0 Introduction

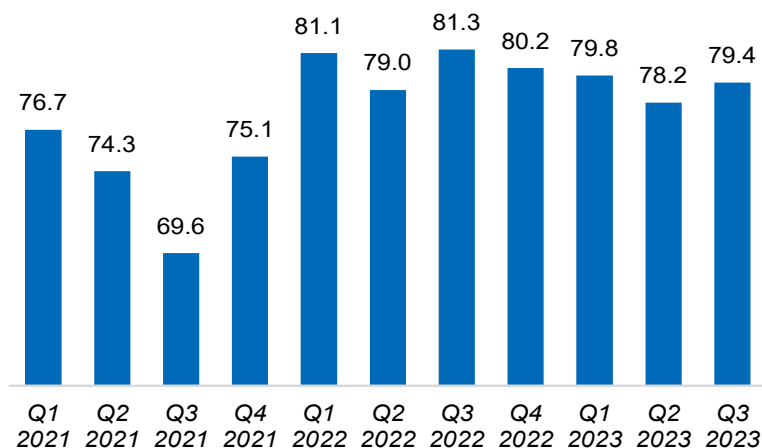
This publication presents statistics on capacity utilisation for Manufacturing industries acquired from the Monthly Manufacturing Survey conducted by the Department of Statistics, Malaysia. The statistics reported in this publication is for the period of the first quarter of 2015 until the third quarter of 2023 at the national and state level. In addition, annual and monthly data are also reported in this publication.

Capacity utilisation refers to a ratio of actual output produced to the production of output at full capacity through an optimal combination of machinery, raw materials and labour. The concept used in this compilation is guided by the International Recommendations for Industrial Statistics 2008, United Nations Statistics Division while the definition of Manufacturing is consistent with Malaysia Standard Industrial Classification (MSIC) 2008 Ver. 1.0.

## 2.0 Performance of Manufacturing Industry Capacity Utilisation in Malaysia, Third Quarter of 2023

Manufacturing industry operated with capacity utilisation of 79.4 per cent in the third quarter 2023, lowered by 1.9 percentage points as compared to a year ago (Q3 2022: 81.3%). The decline was recorded in almost all sub-sectors except for the Manufacture of food, beverages & tobacco (+1.9 percentage points) and Other non-metallic mineral products, basic metals & fabricated metal products (+1.6 percentage points). As compared to the previous quarter, the capacity utilisation of the manufacturing industry increased by 1.2 percentage points (Q2 2023: 78.2%; -0.8 percentage points). (Figure 1)

**Figure 1: Manufacturing Industry Capacity Utilisation, Q1 2021 – Q3 2023**



In monthly basis, the utilisation rate of Manufacturing industry picked up in the September 2023, reaching 80.0 per cent after two months operating at 78.6 per cent (July 2023) and 79.6 per cent (August 2023) (Table 1c). Several factors contributed to the increment production capacity in the third quarter of 2023, including lower demand, limited supply of materials, and repair and maintenance of machinery and equipment.

### 3.0 Capacity Utilisation by Manufacturing Sub-sector, Third Quarter of 2023

Manufacture of non-metallic mineral products, basic metal & fabricated metal sub-sector posted the highest capacity utilisation rate in the third quarter of 2023 with 81.5 per cent by 1.6 percentage points year-on-year; followed by the Manufacture of transport equipment & other manufactures products (81.4%; -2.8 percentage points) and Manufactures of electrical and electronic products (80.0%; -2.2 percentage points). Meanwhile, the utilisation rate for the remaining sub-sectors was below 80.0 per cent with the lowest recorded by the Manufacture of wood, furniture, paper products & printing sub-sector at 77.1 per cent (Q3 2022: 78.9%; -1.8 percentage points).

In comparison with the previous quarter, almost all sub-sectors showed an increment in the third quarter 2023, except the Manufacture of textiles, wearing apparel, leather and footwear sub-sectors turned downward to a negative 0.4 percentage points. The Manufacture of food, beverages and tobacco product indicated the highest increment by 3.3 percentage points to 79.8 per cent as compared to the second quarter of 2023 (Q2 2023: 76.5%; -5.4 percentage points) (**Figure 2**).

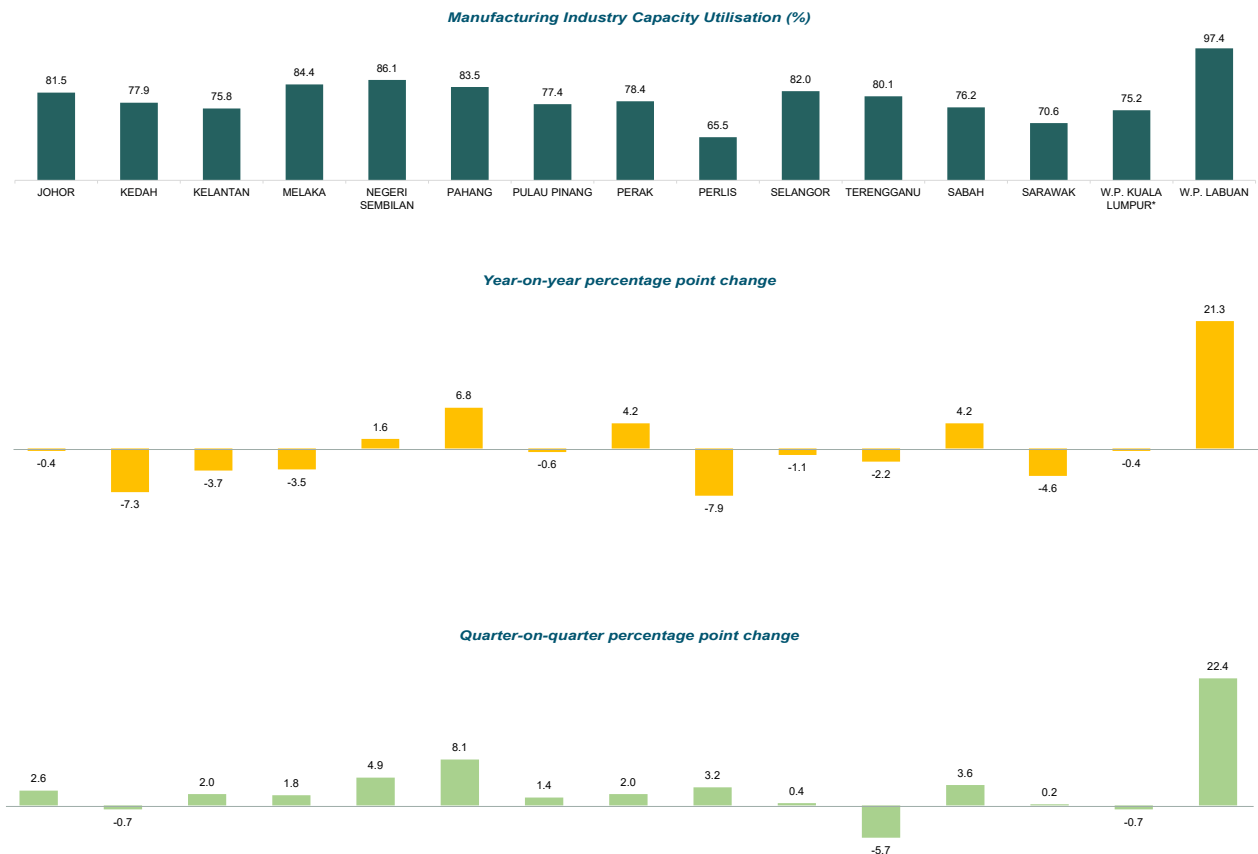
**Figure 2: Manufacturing Industry Capacity Utilisation by Sub-sector, Q3 2023**

|                                                                                                                                                     | Manufacturing industry capacity utilisation (%) | Year-on-year percentage point change | Quarter-on-quarter percentage point change |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------|--------------------------------------------|
|  Food, beverages and tobacco                                     | 79.8                                            | 1.9                                  | 3.3                                        |
|  Textiles, wearing apparel, leather and footwear                 | 79.6                                            | -2.8                                 | -0.4                                       |
|  Wood products, furniture, paper products and printing           | 77.1                                            | -1.8                                 | 0.8                                        |
|  Petroleum, chemical, rubber and plastic                         | 77.6                                            | -3.1                                 | 0.5                                        |
|  Non-metallic mineral products, basic metal and fabricated metal | 81.5                                            | 1.6                                  | 2.2                                        |
|  Electrical and electronic products                              | 80.0                                            | -2.2                                 | 0.6                                        |
|  Transport equipment and other manufactures                      | 81.4                                            | -2.8                                 | 0.7                                        |

### 4.0 Manufacturing Industry Capacity Utilisation by State

Overall, in the third quarter of 2023, the capacity utilisation of seven states surpassed the national rate, specifically WP Labuan (97.4%), Negeri Sembilan (86.1%), Melaka (84.4%), Pahang (83.5%), Selangor (82.0%), Johor (81.5%) and Terengganu (80.1%). Meanwhile, other states recorded lower capacity rates than the national average, with Perlis continuing to record the lowest at 65.5 per cent.

In comparison with a year ago, WP Labuan posted the highest increase with the addition of 21.3 percentage points, followed by Pahang which increased by 6.8 percentage points. On quarterly basis, Selangor which was one of the largest contributors to the Manufacturing industry posted an increase of 0.4 percentage points in capacity utilisation rate (**Figure 3**).

**Figure 3: Manufacturing Industry Capacity Utilisation by State, Q3 2023**

\*includes W.P. Putrajaya

## 5.0 Capacity Utilisation in Export-Oriented and Domestic-Oriented Industries

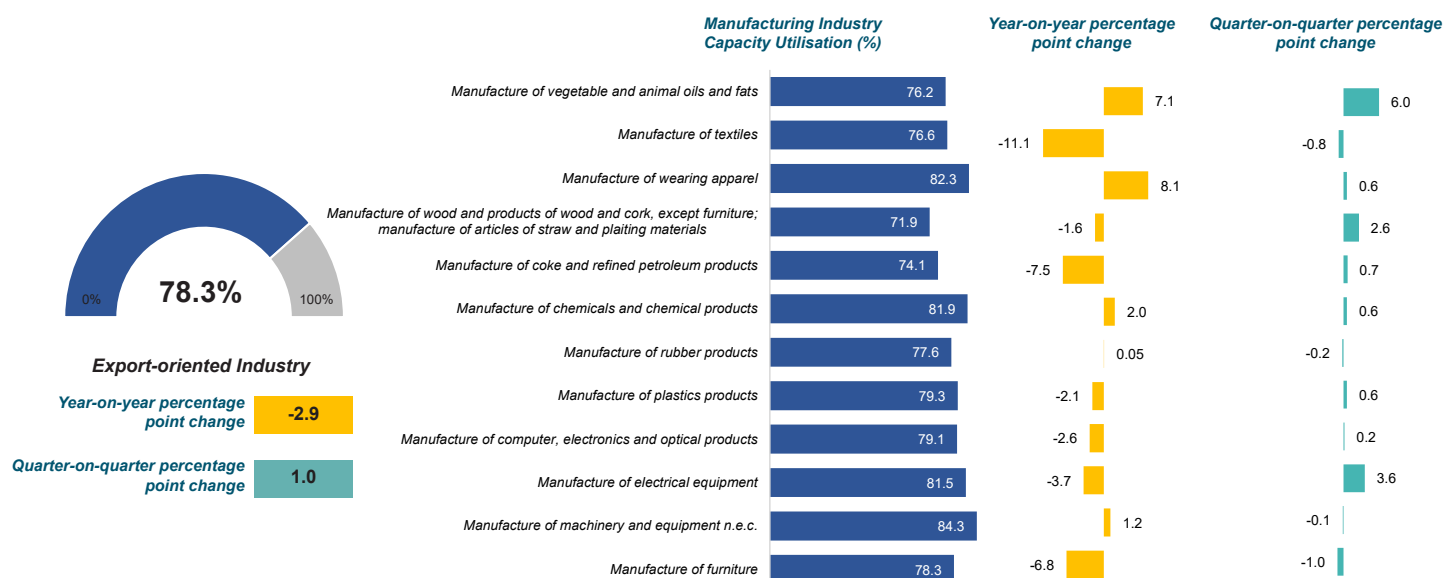
The capacity utilisation in export-oriented industry declined by 2.9 percentage points to 78.3 per cent during third quarter of 2023 (**Figure 4**). Almost all industries in this segment registered a decrease except for the Manufacture of wearing apparel which posted an increase of 8.1 percentage points to reach 82.3 per cent; and the Manufacture of vegetable and animal oils and fats which rose by 7.1 percentage points to record 76.2 per cent. Additionally, the Manufacture of chemicals and chemical products and Manufacture of machinery and equipment n.e.c. also experienced an increase of 2.0 percentage points and 1.2 percentage points, respectively.

Nonetheless, the capacity utilisation rate in domestic-oriented industry grew modestly by 0.2 percentage points, reaching 81.6 per cent (**Figure 5**). The top three increments were recorded by the Manufacture of tobacco products (84.4%; +15.6 percentage points); Other Manufacturing (81.6%; +3.7 percentage points); and Manufacture of fabricated metal products, except machinery and equipment (81.6%; +2.1 percentage points).

In comparison with the previous quarter, both export-oriented and domestic-oriented industries registered an increment of 1.0 percentage points and 1.4 percentage points, respectively.

## SUMMARY OF FINDINGS

**Figure 4: Manufacturing Industry Capacity Utilisation by Export-Oriented Industry, Q3 2023**



**Figure 5: Manufacturing Industry Capacity Utilisation by Domestic-Oriented Industry, Q3 2023**



### 6.0 Performance of Industrial Production Index (IPI), Third Quarter of 2023

In the third quarter 2023, IPI registered a marginal decline of 0.04 per cent year-on-year as compared to the negative 0.3 per cent growth recorded in the second quarter of 2023. During the period, the Mining sector decreased by 0.4 per cent, while the Manufacturing sector declined slightly by 0.1 per cent. Meanwhile, Electricity generation showed an increments by 2.0 per cent. As compared to the previous quarter, IPI grew by 4.2 percent.

The marginal growth of negative 0.1 percent in the Manufacturing sector output (Q2 2023: 0.1%) is also reflected through the rising in manufacturing industry capacity utilisation in the third quarter of 2023. Quarter-on-quarter comparison, the Manufacturing sector increased by 5.5 per cent as compared to negative 2.1 per cent recorded in the second quarter of 2023.

# Jadual Statistik

## *Statistical Table*



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**1a Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor - Tahunan**  
*Manufacturing Industry Capacity Utilisation by Sub-sector - Yearly*

| Keterangan Subsektor<br><i>Sub-sector Description</i>                                                                                                                                                                                                             |  | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>1. Makanan, minuman dan tembakau</b><br><b><i>Food, beverages and tobacco</i></b>                                                                                                                                                                              |  | <b>74.8</b> | <b>75.6</b> | <b>70.5</b> | <b>71.1</b> | <b>73.3</b> | <b>66.7</b> | <b>67.3</b> | <b>81.2</b> |
| 10 Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                                |  | 75.2        | 75.2        | 76.3        | 76.5        | 73.7        | 73.9        | 75.1        | 76.4        |
| 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                           |  | 75.4        | 76.7        | 67.3        | 71.9        | 71.4        | 65.3        | 67.3        | 81.5        |
| 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                            |  | 73.3        | 73.5        | 73.0        | 65.3        | 76.9        | 59.7        | 61.4        | 84.2        |
| <b>2. Tekstil, pakaian, kulit dan kasut</b><br><b><i>Textiles, wearing apparel, leather and footwear</i></b>                                                                                                                                                      |  | <b>84.7</b> | <b>87.6</b> | <b>77.8</b> | <b>78.1</b> | <b>77.8</b> | <b>68.4</b> | <b>74.5</b> | <b>81.0</b> |
| 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                            |  | 80.6        | 86.9        | 71.3        | 69.1        | 69.1        | 65.7        | 73.7        | 85.5        |
| 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                                     |  | 90.0        | 89.4        | 84.2        | 87.4        | 87.0        | 70.9        | 76.2        | 74.1        |
| 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                            |  | 82.1        | 83.2        | 81.0        | 81.8        | 79.2        | 70.6        | 71.2        | 89.9        |
| <b>3. Produk kayu, perabot, keluaran kertas dan percetakan</b><br><b><i>Wood products, furniture, paper products and printing</i></b>                                                                                                                             |  | <b>77.4</b> | <b>77.0</b> | <b>77.5</b> | <b>78.0</b> | <b>77.0</b> | <b>69.9</b> | <b>70.9</b> | <b>78.1</b> |
| 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot;<br>pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture;<br/>manufacture of articles of straw and plaiting materials</i> |  | 77.0        | 74.2        | 75.1        | 75.4        | 73.9        | 67.6        | 68.9        | 72.6        |
| 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                           |  | 77.3        | 79.9        | 78.2        | 81.0        | 79.1        | 73.9        | 74.2        | 79.3        |
| 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                           |  | 78.2        | 76.6        | 77.0        | 76.4        | 77.1        | 69.8        | 70.9        | 82.0        |
| 31 Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                           |  | 78.0        | 79.4        | 81.4        | 80.0        | 79.9        | 68.8        | 70.2        | 83.8        |
| <b>4. Petroleum, kimia, getah dan plastik</b><br><b><i>Petroleum, chemical, rubber and plastic</i></b>                                                                                                                                                            |  | <b>82.8</b> | <b>83.6</b> | <b>82.8</b> | <b>82.4</b> | <b>80.1</b> | <b>70.5</b> | <b>75.0</b> | <b>80.8</b> |
| 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                       |  | 85.5        | 86.1        | 86.9        | 84.4        | 80.3        | 63.0        | 70.8        | 81.6        |
| 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                                      |  | 81.8        | 83.5        | 78.6        | 82.3        | 81.1        | 76.3        | 80.2        | 80.1        |
| 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                      |  | 72.3        | 74.7        | 72.4        | 74.6        | 73.3        | 73.7        | 72.4        | 80.0        |
| 22 Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                                       |  | 78.7        | 78.9        | 80.1        | 78.9        | 78.5        | 78.3        | 76.7        | 79.9        |
| <b>5. Produk mineral bukan logam, logam asas dan produk logam yang direka</b><br><b><i>Non-metallic mineral products, basic metal and fabricated metal products</i></b>                                                                                           |  | <b>76.0</b> | <b>76.1</b> | <b>74.6</b> | <b>75.8</b> | <b>74.6</b> | <b>68.0</b> | <b>69.4</b> | <b>79.2</b> |
| 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                          |  | 74.0        | 75.7        | 72.4        | 72.7        | 72.1        | 64.1        | 67.9        | 80.1        |
| 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                                     |  | 76.2        | 76.6        | 77.8        | 77.1        | 75.7        | 68.0        | 68.7        | 77.2        |
| 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                       |  | 77.4        | 76.0        | 73.8        | 77.1        | 75.8        | 70.8        | 71.1        | 80.1        |
| <b>6. Produk elektrik dan elektronik</b><br><b><i>Electrical and electronic products</i></b>                                                                                                                                                                      |  | <b>80.7</b> | <b>80.7</b> | <b>80.3</b> | <b>78.9</b> | <b>77.3</b> | <b>70.8</b> | <b>76.7</b> | <b>80.5</b> |
| 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                          |  | 81.2        | 81.6        | 80.7        | 78.9        | 77.1        | 70.5        | 76.9        | 80.1        |
| 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                                   |  | 77.9        | 76.7        | 80.9        | 80.6        | 80.3        | 71.8        | 77.1        | 82.8        |
| 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                               |  | 78.5        | 76.8        | 76.0        | 76.4        | 75.5        | 71.9        | 74.3        | 81.7        |
| <b>7. Kelengkapan pengangkutan dan pembuatan lain</b><br><b><i>Transport equipment and other manufactures</i></b>                                                                                                                                                 |  | <b>76.6</b> | <b>73.5</b> | <b>73.2</b> | <b>76.7</b> | <b>78.1</b> | <b>67.3</b> | <b>70.1</b> | <b>81.6</b> |
| 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                       |  | 77.6        | 72.8        | 70.6        | 77.9        | 78.9        | 64.9        | 69.0        | 83.0        |
| 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                                     |  | 75.2        | 74.6        | 77.7        | 74.8        | 78.5        | 69.6        | 72.0        | 81.3        |
| 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                                   |  | 76.4        | 75.9        | 76.6        | 73.9        | 76.3        | 72.6        | 71.9        | 76.9        |
| 33 Pembaikan dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                                  |  | 67.9        | 76.1        | 77.9        | 75.8        | 74.3        | 72.7        | 72.2        | 78.6        |
| <b>Malaysia</b>                                                                                                                                                                                                                                                   |  | <b>80.1</b> | <b>80.2</b> | <b>79.2</b> | <b>79.1</b> | <b>77.8</b> | <b>69.8</b> | <b>73.9</b> | <b>80.4</b> |

**1b Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor - Suku Tahunan**  
*Manufacturing Industry Capacity Utilisation by Sub-sector -Quarterly*

| Keterangan Subsektor<br><i>Sub-sector Description</i>                                                                                                                                                                                                      | 2017        |             |             |             | 2018        |             |             |             | 2019        |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                                                                                                                                                                                                            | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          |
| <b>1. Makanan, minuman dan tembakau</b><br><i>Food, beverages and tobacco</i>                                                                                                                                                                              | <b>70.3</b> | <b>73.3</b> | <b>74.5</b> | <b>63.8</b> | <b>65.8</b> | <b>71.7</b> | <b>74.1</b> | <b>72.6</b> | <b>71.5</b> | <b>72.9</b> |
| 10 Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                         | 73.8        | 78.0        | 76.7        | 76.9        | 76.0        | 75.5        | 75.5        | 79.0        | 74.4        | 74.9        |
| 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                    | 64.6        | 69.2        | 72.6        | 62.7        | 63.9        | 73.0        | 77.0        | 73.5        | 67.6        | 70.1        |
| 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                     | 80.0        | 78.5        | 77.2        | 56.2        | 62.4        | 66.3        | 66.6        | 66.0        | 78.1        | 77.4        |
| <b>2. Tekstil, pakaian, kulit dan kasut</b><br><i>Textiles, wearing apparel, leather and footwear</i>                                                                                                                                                      | <b>78.8</b> | <b>73.8</b> | <b>79.0</b> | <b>79.4</b> | <b>75.6</b> | <b>81.4</b> | <b>77.8</b> | <b>77.5</b> | <b>76.8</b> | <b>77.5</b> |
| 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                     | 73.9        | 65.7        | 73.3        | 72.4        | 64.3        | 75.6        | 68.3        | 68.3        | 69.3        | 68.6        |
| 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                              | 83.0        | 81.2        | 85.3        | 87.4        | 87.4        | 87.5        | 87.4        | 87.5        | 85.3        | 87.0        |
| 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                     | 83.7        | 81.3        | 79.7        | 79.3        | 80.6        | 83.9        | 83.5        | 79.4        | 75.9        | 79.2        |
| <b>3. Produk kayu, perabot, keluaran kertas dan percetakan</b><br><i>Wood products, furniture, paper products and printing</i>                                                                                                                             | <b>77.1</b> | <b>77.1</b> | <b>77.6</b> | <b>78.1</b> | <b>77.4</b> | <b>78.2</b> | <b>78.6</b> | <b>77.7</b> | <b>76.9</b> | <b>77.1</b> |
| 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 75.1        | 73.9        | 74.5        | 76.7        | 74.4        | 74.7        | 76.1        | 76.2        | 74.8        | 74.4        |
| 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                    | 77.7        | 78.1        | 78.1        | 78.8        | 81.2        | 80.7        | 81.2        | 80.7        | 78.2        | 79.1        |
| 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                    | 74.6        | 79.0        | 79.1        | 75.4        | 74.9        | 79.2        | 78.7        | 72.8        | 75.5        | 78.6        |
| 31 Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                    | 82.1        | 80.3        | 81.3        | 82.2        | 79.9        | 80.2        | 79.7        | 80.2        | 80.1        | 78.3        |
| <b>4. Petroleum, kimia, getah dan plastik</b><br><i>Petroleum, chemical, rubber and plastic</i>                                                                                                                                                            | <b>83.2</b> | <b>80.3</b> | <b>83.6</b> | <b>83.9</b> | <b>83.8</b> | <b>82.7</b> | <b>81.3</b> | <b>81.9</b> | <b>76.7</b> | <b>80.2</b> |
| 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                | 88.6        | 82.8        | 87.8        | 88.4        | 85.8        | 85.9        | 81.8        | 83.9        | 74.4        | 79.8        |
| 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                               | 78.2        | 77.4        | 79.4        | 79.5        | 84.0        | 81.0        | 82.2        | 82.0        | 79.8        | 82.2        |
| 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                               | 69.3        | 71.2        | 72.5        | 76.5        | 74.8        | 72.9        | 76.0        | 74.6        | 72.9        | 75.0        |
| 22 Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                                | 79.5        | 79.3        | 80.9        | 80.7        | 79.6        | 78.5        | 79.3        | 78.3        | 77.6        | 78.6        |
| <b>5. Produk mineral bukan logam, logam asas dan produk logam yang direka</b><br><i>Non-metallic mineral products, basic metal and fabricated metal products</i>                                                                                           | <b>74.9</b> | <b>73.3</b> | <b>74.4</b> | <b>75.7</b> | <b>75.9</b> | <b>75.4</b> | <b>76.3</b> | <b>75.6</b> | <b>74.0</b> | <b>74.5</b> |
| 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                   | 73.5        | 71.6        | 71.3        | 73.1        | 72.7        | 72.4        | 73.8        | 72.1        | 71.8        | 71.6        |
| 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                              | 78.3        | 75.0        | 79.0        | 79.0        | 77.4        | 76.6        | 77.6        | 76.8        | 73.3        | 75.6        |
| 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                | 73.3        | 73.3        | 73.3        | 75.3        | 77.1        | 76.7        | 77.2        | 77.3        | 76.2        | 75.8        |
| <b>6. Produk elektrik dan elektronik</b><br><i>Electrical and electronic products</i>                                                                                                                                                                      | <b>79.4</b> | <b>78.9</b> | <b>82.0</b> | <b>81.0</b> | <b>79.5</b> | <b>79.1</b> | <b>80.1</b> | <b>76.8</b> | <b>75.9</b> | <b>77.0</b> |
| 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                   | 79.5        | 79.0        | 82.8        | 81.5        | 79.2        | 79.0        | 80.6        | 76.6        | 75.3        | 76.8        |
| 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                            | 79.7        | 80.4        | 82.5        | 81.2        | 81.3        | 82.0        | 79.5        | 79.8        | 80.9        | 79.6        |
| 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                        | 77.9        | 76.2        | 74.4        | 75.5        | 79.2        | 76.4        | 75.6        | 74.4        | 74.6        | 75.6        |
| <b>7. Kelengkapan pengangkutan dan pembuatan lain</b><br><i>Transport equipment and other manufactures</i>                                                                                                                                                 | <b>73.3</b> | <b>72.7</b> | <b>72.3</b> | <b>74.5</b> | <b>77.1</b> | <b>78.0</b> | <b>74.4</b> | <b>77.3</b> | <b>78.8</b> | <b>77.5</b> |
| 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                | 70.1        | 70.8        | 69.0        | 72.4        | 77.9        | 80.6        | 74.7        | 78.3        | 80.1        | 77.6        |
| 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                              | 79.8        | 74.1        | 77.8        | 79.1        | 75.2        | 73.0        | 73.1        | 77.9        | 79.8        | 79.6        |
| 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                            | 77.6        | 76.2        | 77.5        | 75.0        | 74.3        | 73.7        | 73.0        | 74.6        | 75.1        | 77.4        |
| 33 Pembaikan dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                           | 76.2        | 78.3        | 78.1        | 79.0        | 78.9        | 75.4        | 76.6        | 72.3        | 71.5        | 72.4        |
| <b>Malaysia</b>                                                                                                                                                                                                                                            | <b>79.1</b> | <b>77.7</b> | <b>80.1</b> | <b>80.0</b> | <b>79.7</b> | <b>79.4</b> | <b>79.1</b> | <b>78.3</b> | <b>76.1</b> | <b>77.7</b> |

| 2020 |      |      |      | 2021 |      |      |      | 2022 |      |      |      | 2023 |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   |
| 73.5 | 75.1 | 69.3 | 60.9 | 69.6 | 66.8 | 71.9 | 63.2 | 58.5 | 75.5 | 85.3 | 82.2 | 77.9 | 79.5 | 81.9 | 76.5 | 79.8 |
| 73.8 | 71.5 | 73.1 | 75.2 | 74.9 | 72.3 | 75.1 | 76.2 | 77.1 | 71.8 | 74.2 | 74.4 | 78.9 | 78.0 | 77.6 | 75.3 | 79.5 |
| 71.6 | 76.4 | 68.0 | 54.5 | 67.5 | 71.2 | 66.9 | 62.7 | 64.1 | 75.5 | 83.2 | 80.5 | 81.8 | 80.7 | 77.9 | 80.3 | 80.3 |
| 77.2 | 74.8 | 66.8 | 47.9 | 70.4 | 53.6 | 80.3 | 55.1 | 32.1 | 77.9 | 98.2 | 91.7 | 68.8 | 77.8 | 93.6 | 89.5 | 84.4 |
| 78.1 | 78.7 | 73.6 | 57.7 | 70.4 | 72.0 | 77.9 | 75.6 | 69.2 | 75.4 | 80.9 | 81.4 | 82.4 | 79.3 | 78.0 | 80.0 | 79.6 |
| 69.1 | 69.4 | 71.7 | 54.1 | 68.3 | 68.7 | 78.4 | 75.7 | 68.2 | 72.4 | 86.6 | 83.0 | 87.7 | 84.6 | 74.9 | 77.4 | 76.6 |
| 87.6 | 88.3 | 75.8 | 60.8 | 72.1 | 74.8 | 78.5 | 76.4 | 70.8 | 79.2 | 73.3 | 78.4 | 74.2 | 70.6 | 78.5 | 81.7 | 82.3 |
| 79.8 | 82.1 | 72.4 | 61.5 | 72.8 | 75.7 | 73.2 | 71.4 | 66.9 | 73.4 | 87.7 | 86.9 | 92.4 | 92.8 | 86.1 | 84.0 | 79.9 |
| 76.8 | 77.1 | 72.0 | 62.0 | 72.6 | 73.1 | 73.2 | 70.3 | 66.8 | 73.4 | 78.3 | 78.6 | 78.9 | 76.7 | 75.2 | 76.3 | 77.1 |
| 73.3 | 73.0 | 67.3 | 62.4 | 70.3 | 70.1 | 69.0 | 68.3 | 66.6 | 71.7 | 72.6 | 73.5 | 73.5 | 70.8 | 68.4 | 69.3 | 71.9 |
| 78.7 | 80.2 | 74.4 | 68.4 | 75.7 | 77.1 | 77.6 | 75.3 | 70.4 | 73.3 | 82.7 | 79.3 | 78.4 | 76.6 | 77.3 | 76.6 | 77.5 |
| 78.2 | 75.9 | 73.8 | 62.9 | 72.6 | 70.1 | 74.4 | 69.4 | 65.1 | 74.5 | 78.0 | 82.8 | 84.5 | 82.8 | 81.5 | 83.3 | 83.4 |
| 79.6 | 81.6 | 75.9 | 51.2 | 72.8 | 75.5 | 74.0 | 67.6 | 63.7 | 75.7 | 83.1 | 83.9 | 85.1 | 83.0 | 80.3 | 79.3 | 78.3 |
| 81.4 | 82.0 | 71.5 | 62.7 | 73.3 | 74.5 | 79.6 | 77.6 | 70.4 | 72.4 | 82.6 | 77.7 | 80.7 | 82.1 | 80.8 | 77.1 | 77.6 |
| 83.5 | 83.7 | 65.7 | 50.9 | 67.0 | 68.3 | 78.7 | 77.3 | 64.2 | 63.2 | 84.4 | 74.7 | 81.6 | 85.7 | 82.2 | 73.4 | 74.1 |
| 80.6 | 81.8 | 76.1 | 71.6 | 77.9 | 79.5 | 81.8 | 78.8 | 78.2 | 81.9 | 81.0 | 80.1 | 79.9 | 79.5 | 80.0 | 81.3 | 81.9 |
| 74.5 | 70.6 | 73.0 | 70.5 | 76.0 | 75.1 | 72.9 | 71.2 | 74.4 | 71.2 | 76.7 | 79.8 | 86.4 | 77.0 | 82.8 | 81.0 | 83.5 |
| 78.5 | 79.4 | 77.6 | 75.0 | 79.9 | 80.8 | 78.8 | 77.0 | 72.3 | 78.8 | 81.1 | 80.5 | 79.4 | 78.5 | 78.9 | 78.3 | 78.5 |
| 75.1 | 75.0 | 68.9 | 59.0 | 71.8 | 72.4 | 73.3 | 67.2 | 64.9 | 72.3 | 79.4 | 78.8 | 79.9 | 78.7 | 78.9 | 79.3 | 81.5 |
| 72.0 | 72.9 | 64.4 | 53.3 | 69.1 | 69.7 | 71.4 | 65.8 | 63.6 | 70.9 | 78.9 | 80.6 | 81.8 | 79.1 | 77.4 | 80.4 | 83.4 |
| 77.5 | 76.5 | 69.0 | 60.3 | 70.5 | 72.2 | 72.2 | 65.4 | 64.6 | 72.8 | 78.2 | 76.4 | 78.6 | 75.7 | 78.4 | 77.5 | 79.0 |
| 75.5 | 75.5 | 72.2 | 61.9 | 74.7 | 74.5 | 75.5 | 69.7 | 66.2 | 72.9 | 80.7 | 79.3 | 79.5 | 80.9 | 80.6 | 79.7 | 81.6 |
| 78.7 | 77.8 | 71.8 | 62.0 | 73.9 | 75.3 | 76.3 | 77.1 | 74.5 | 79.1 | 80.7 | 79.6 | 82.2 | 79.7 | 78.9 | 79.4 | 80.0 |
| 79.0 | 77.5 | 71.7 | 61.4 | 73.7 | 75.1 | 76.1 | 77.7 | 75.1 | 78.7 | 80.4 | 79.1 | 81.7 | 79.2 | 78.4 | 78.9 | 79.1 |
| 79.8 | 80.7 | 73.2 | 63.4 | 76.0 | 74.5 | 76.6 | 76.7 | 73.5 | 81.7 | 82.2 | 80.8 | 85.2 | 82.9 | 81.0 | 77.9 | 81.5 |
| 75.0 | 76.6 | 70.7 | 65.1 | 73.0 | 78.9 | 77.5 | 71.4 | 69.6 | 78.7 | 81.7 | 82.3 | 83.1 | 79.8 | 79.9 | 84.4 | 84.3 |
| 77.9 | 78.4 | 71.0 | 52.7 | 71.9 | 73.5 | 76.4 | 67.8 | 60.2 | 76.0 | 81.0 | 80.6 | 84.2 | 80.5 | 84.0 | 80.7 | 81.4 |
| 78.5 | 79.4 | 68.8 | 46.5 | 71.4 | 72.9 | 77.8 | 64.9 | 55.2 | 77.9 | 82.6 | 81.6 | 86.3 | 81.3 | 86.1 | 82.0 | 81.9 |
| 78.5 | 76.0 | 76.0 | 60.2 | 68.8 | 73.4 | 72.8 | 73.1 | 69.4 | 72.4 | 78.1 | 82.0 | 82.3 | 82.8 | 80.0 | 78.8 | 79.5 |
| 76.0 | 76.6 | 72.0 | 65.9 | 77.0 | 75.6 | 75.0 | 71.8 | 68.1 | 72.8 | 75.9 | 75.9 | 77.9 | 77.8 | 80.6 | 79.3 | 81.6 |
| 74.6 | 78.7 | 73.7 | 66.0 | 75.6 | 75.3 | 76.0 | 71.5 | 66.4 | 74.8 | 82.3 | 76.1 | 80.2 | 75.7 | 82.8 | 79.0 | 82.3 |
| 78.8 | 78.7 | 71.2 | 60.8 | 73.0 | 74.1 | 76.7 | 74.3 | 69.6 | 75.1 | 81.1 | 79.0 | 81.3 | 80.2 | 79.8 | 78.2 | 79.4 |

**1c Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Sub-sector - Monthly*

| Keterangan Subsektor<br><i>Sub-sector Description</i>                                                                                                                                                                                                             | 2017        |             |             |             |             |             |             |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                                                                                                                                                                                                                   | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
| <b>1 Makanan, minuman dan tembakau</b><br><b><i>Food, beverages and tobacco</i></b>                                                                                                                                                                               | <b>70.6</b> | <b>69.6</b> | <b>70.6</b> | <b>72.2</b> | <b>75.8</b> | <b>71.9</b> | <b>77.1</b> | <b>72.9</b> | <b>73.6</b> |
| 10 Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                                | 73.3        | 73.5        | 74.7        | 79.2        | 78.5        | 76.2        | 76.3        | 76.8        | 76.9        |
| 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                           | 69.6        | 61.4        | 62.7        | 64.1        | 74.8        | 68.6        | 76.0        | 72.5        | 69.2        |
| 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                            | 70.9        | 84.5        | 84.6        | 84.3        | 75.7        | 75.6        | 80.1        | 71.0        | 80.5        |
| <b>2 Tekstil, pakaian, kulit dan kasut</b><br><b><i>Textiles, wearing apparel, leather and footwear</i></b>                                                                                                                                                       | <b>78.1</b> | <b>77.1</b> | <b>81.1</b> | <b>76.5</b> | <b>75.1</b> | <b>69.9</b> | <b>75.0</b> | <b>80.2</b> | <b>81.8</b> |
| 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                            | 70.9        | 73.7        | 77.1        | 68.1        | 66.1        | 62.8        | 65.3        | 75.3        | 79.4        |
| 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                                     | 84.7        | 79.7        | 84.7        | 84.6        | 83.7        | 75.4        | 85.0        | 85.5        | 85.4        |
| 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                            | 83.9        | 82.3        | 84.8        | 82.7        | 80.9        | 80.4        | 79.8        | 81.4        | 77.7        |
| <b>3 Produk kayu, perabot, keluaran kertas dan percetakan</b><br><b><i>Wood products, furniture, paper products and printing</i></b>                                                                                                                              | <b>77.3</b> | <b>76.3</b> | <b>77.7</b> | <b>78.2</b> | <b>78.1</b> | <b>75.0</b> | <b>77.8</b> | <b>78.2</b> | <b>76.6</b> |
| 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot;<br>pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture;<br/>manufacture of articles of straw and plaiting materials</i> | 76.0        | 74.0        | 75.4        | 75.2        | 75.5        | 71.0        | 74.9        | 75.0        | 73.7        |
| 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                           | 77.6        | 77.1        | 78.3        | 79.1        | 80.3        | 74.9        | 80.1        | 77.0        | 77.2        |
| 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                           | 74.6        | 74.5        | 74.5        | 82.5        | 75.8        | 78.8        | 78.5        | 82.6        | 76.3        |
| 31 Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                           | 81.7        | 80.9        | 83.6        | 79.2        | 82.0        | 79.5        | 79.8        | 82.3        | 81.6        |
| <b>4 Petroleum, kimia, getah dan plastik</b><br><b><i>Petroleum, chemical, rubber and plastic</i></b>                                                                                                                                                             | <b>84.3</b> | <b>83.2</b> | <b>82.2</b> | <b>76.7</b> | <b>79.1</b> | <b>85.1</b> | <b>84.9</b> | <b>83.7</b> | <b>82.4</b> |
| 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                       | 90.0        | 89.4        | 86.2        | 76.1        | 81.8        | 90.7        | 90.8        | 88.3        | 84.4        |
| 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                                      | 79.4        | 77.2        | 77.9        | 75.7        | 75.5        | 81.1        | 78.9        | 78.5        | 80.9        |
| 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                      | 72.9        | 64.3        | 70.6        | 74.2        | 69.0        | 70.4        | 72.0        | 73.4        | 72.2        |
| 22 Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                                       | 79.0        | 79.2        | 80.3        | 79.6        | 78.9        | 79.5        | 80.8        | 81.4        | 80.6        |
| <b>5 Produk mineral bukan logam, logam asas dan produk logam yang direka</b><br><b><i>Non-metallic mineral products, basic metal and fabricated metal products</i></b>                                                                                            | <b>75.5</b> | <b>73.7</b> | <b>75.5</b> | <b>73.8</b> | <b>74.4</b> | <b>71.8</b> | <b>75.2</b> | <b>75.4</b> | <b>72.7</b> |
| 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                          | 76.3        | 72.8        | 71.5        | 72.6        | 70.6        | 71.6        | 71.4        | 71.7        | 70.7        |
| 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                                     | 78.9        | 74.4        | 81.7        | 75.8        | 77.7        | 71.6        | 80.1        | 81.7        | 75.2        |
| 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                       | 72.2        | 73.9        | 73.7        | 73.2        | 74.7        | 72.0        | 74.3        | 73.4        | 72.4        |
| <b>6 Produk elektrik dan elektronik</b><br><b><i>Electrical and electronic products</i></b>                                                                                                                                                                       | <b>78.7</b> | <b>78.8</b> | <b>80.7</b> | <b>78.4</b> | <b>79.9</b> | <b>78.4</b> | <b>80.3</b> | <b>82.4</b> | <b>83.5</b> |
| 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                          | 78.5        | 79.0        | 81.0        | 78.2        | 80.1        | 78.9        | 80.5        | 83.1        | 84.9        |
| 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                                   | 80.2        | 79.4        | 79.6        | 80.6        | 81.2        | 79.3        | 83.2        | 82.8        | 81.4        |
| 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                               | 78.3        | 76.2        | 79.3        | 78.2        | 77.2        | 73.1        | 74.4        | 75.1        | 73.8        |
| <b>7 Kelengkapan pengangkutan dan pembuatan lain</b><br><b><i>Transport equipment and other manufactures</i></b>                                                                                                                                                  | <b>75.2</b> | <b>72.2</b> | <b>72.4</b> | <b>70.7</b> | <b>73.8</b> | <b>73.6</b> | <b>74.0</b> | <b>71.6</b> | <b>71.3</b> |
| 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                       | 71.3        | 68.3        | 70.8        | 66.8        | 72.2        | 73.4        | 72.2        | 67.7        | 67.0        |
| 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                                     | 84.6        | 81.9        | 73.0        | 76.9        | 75.3        | 70.2        | 77.3        | 76.9        | 79.1        |
| 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                                   | 80.9        | 74.2        | 77.7        | 76.0        | 75.5        | 77.0        | 76.2        | 78.5        | 77.8        |
| 33 Pembaikan dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                                  | 75.4        | 76.7        | 76.6        | 77.4        | 79.7        | 77.6        | 78.3        | 78.7        | 77.3        |
| <b>Malaysia</b>                                                                                                                                                                                                                                                   | <b>79.4</b> | <b>78.5</b> | <b>79.3</b> | <b>76.3</b> | <b>78.0</b> | <b>78.7</b> | <b>80.1</b> | <b>80.3</b> | <b>79.8</b> |

| 2018        |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Okt.        | Nov.        | Dis.        | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        | Okt.        | Nov.        | Dis.        |
| <b>62.6</b> | <b>64.0</b> | <b>64.9</b> | <b>66.7</b> | <b>61.8</b> | <b>68.9</b> | <b>74.1</b> | <b>72.9</b> | <b>68.3</b> | <b>76.6</b> | <b>75.9</b> | <b>69.7</b> | <b>73.6</b> | <b>70.4</b> | <b>73.9</b> |
| 79.1        | 75.4        | 76.2        | 77.2        | 71.6        | 79.3        | 79.4        | 74.8        | 72.3        | 74.9        | 75.1        | 76.4        | 80.4        | 78.8        | 78.0        |
| 60.9        | 65.1        | 62.2        | 68.0        | 56.0        | 67.8        | 76.1        | 75.2        | 67.7        | 81.7        | 80.7        | 68.6        | 74.8        | 69.7        | 76.0        |
| 53.6        | 53.0        | 62.1        | 56.1        | 67.2        | 63.8        | 65.6        | 66.4        | 66.7        | 66.8        | 66.0        | 67.0        | 66.0        | 65.5        | 66.4        |
| <b>80.4</b> | <b>77.4</b> | <b>80.6</b> | <b>78.0</b> | <b>73.3</b> | <b>75.5</b> | <b>78.6</b> | <b>78.7</b> | <b>86.9</b> | <b>79.2</b> | <b>78.6</b> | <b>75.7</b> | <b>79.2</b> | <b>75.7</b> | <b>77.6</b> |
| 74.9        | 68.5        | 73.9        | 69.0        | 61.5        | 62.2        | 69.5        | 69.5        | 87.9        | 69.1        | 69.9        | 66.0        | 70.9        | 65.7        | 68.3        |
| 86.7        | 87.0        | 88.4        | 87.6        | 85.6        | 88.9        | 88.0        | 88.3        | 86.0        | 89.1        | 87.4        | 85.8        | 88.3        | 86.2        | 87.9        |
| 79.5        | 78.8        | 79.5        | 80.5        | 78.4        | 83.0        | 83.2        | 82.7        | 85.7        | 86.4        | 84.0        | 80.0        | 80.0        | 79.5        | 78.5        |
| <b>78.6</b> | <b>78.2</b> | <b>77.6</b> | <b>78.3</b> | <b>74.6</b> | <b>79.3</b> | <b>78.2</b> | <b>79.0</b> | <b>77.2</b> | <b>79.4</b> | <b>79.0</b> | <b>77.5</b> | <b>78.2</b> | <b>76.9</b> | <b>78.0</b> |
| 77.4        | 75.7        | 76.9        | 76.1        | 70.2        | 77.1        | 75.6        | 75.4        | 73.2        | 76.3        | 76.1        | 76.0        | 76.1        | 76.1        | 76.5        |
| 79.0        | 79.5        | 78.0        | 83.1        | 79.2        | 81.2        | 81.9        | 81.4        | 78.9        | 81.6        | 81.6        | 80.5        | 81.6        | 79.8        | 80.8        |
| 77.0        | 75.4        | 73.7        | 72.6        | 72.5        | 79.6        | 76.5        | 81.1        | 79.9        | 81.3        | 80.2        | 74.6        | 74.8        | 69.7        | 74.0        |
| 81.8        | 83.2        | 81.6        | 80.5        | 78.6        | 80.6        | 79.5        | 80.7        | 80.4        | 80.5        | 79.7        | 78.8        | 80.1        | 80.3        | 80.3        |
| <b>84.0</b> | <b>84.0</b> | <b>83.7</b> | <b>85.3</b> | <b>82.9</b> | <b>83.2</b> | <b>82.8</b> | <b>83.0</b> | <b>82.2</b> | <b>83.7</b> | <b>80.1</b> | <b>79.9</b> | <b>78.7</b> | <b>83.3</b> | <b>83.8</b> |
| 87.2        | 89.5        | 88.5        | 88.6        | 84.1        | 84.8        | 86.2        | 85.2        | 86.4        | 85.8        | 79.6        | 80.0        | 76.4        | 87.0        | 88.2        |
| 81.5        | 77.9        | 79.1        | 84.2        | 84.4        | 83.4        | 80.2        | 83.3        | 79.4        | 83.4        | 81.7        | 81.6        | 82.2        | 82.2        | 81.6        |
| 76.0        | 79.9        | 73.7        | 75.6        | 73.8        | 75.0        | 72.2        | 71.8        | 74.6        | 79.5        | 75.9        | 72.6        | 75.4        | 73.1        | 75.4        |
| 81.1        | 80.7        | 80.2        | 80.3        | 78.5        | 79.9        | 79.4        | 78.7        | 77.3        | 80.2        | 79.5        | 78.1        | 79.2        | 77.7        | 78.0        |
| <b>75.2</b> | <b>76.1</b> | <b>75.9</b> | <b>77.1</b> | <b>73.1</b> | <b>77.4</b> | <b>76.9</b> | <b>75.7</b> | <b>73.6</b> | <b>77.0</b> | <b>76.3</b> | <b>75.7</b> | <b>76.8</b> | <b>74.7</b> | <b>75.3</b> |
| 72.6        | 74.2        | 72.5        | 74.2        | 69.6        | 74.5        | 73.8        | 72.7        | 70.7        | 74.4        | 73.8        | 73.2        | 72.9        | 72.3        | 71.0        |
| 78.9        | 79.6        | 78.5        | 78.7        | 73.7        | 79.9        | 78.8        | 77.7        | 73.4        | 79.6        | 77.2        | 76.1        | 79.3        | 73.7        | 77.6        |
| 74.5        | 74.8        | 76.6        | 78.0        | 75.4        | 77.8        | 77.7        | 76.6        | 75.9        | 77.0        | 77.5        | 77.2        | 78.0        | 77.3        | 76.8        |
| <b>81.5</b> | <b>81.3</b> | <b>80.1</b> | <b>78.2</b> | <b>76.9</b> | <b>83.2</b> | <b>79.4</b> | <b>79.9</b> | <b>78.0</b> | <b>80.5</b> | <b>80.1</b> | <b>79.6</b> | <b>78.8</b> | <b>75.7</b> | <b>75.8</b> |
| 82.2        | 81.9        | 80.5        | 77.7        | 76.4        | 83.5        | 78.9        | 79.9        | 78.2        | 81.0        | 80.8        | 80.1        | 78.8        | 75.5        | 75.5        |
| 82.1        | 81.2        | 80.4        | 81.7        | 80.2        | 82.0        | 83.3        | 82.2        | 80.5        | 79.9        | 79.3        | 79.3        | 81.0        | 79.2        | 79.1        |
| 74.8        | 76.2        | 75.4        | 77.8        | 77.3        | 82.5        | 79.0        | 76.7        | 73.5        | 76.6        | 74.8        | 75.5        | 75.7        | 73.1        | 74.3        |
| <b>69.3</b> | <b>77.1</b> | <b>77.2</b> | <b>79.5</b> | <b>75.3</b> | <b>76.5</b> | <b>77.4</b> | <b>79.0</b> | <b>77.6</b> | <b>78.9</b> | <b>74.7</b> | <b>69.6</b> | <b>76.5</b> | <b>79.0</b> | <b>76.4</b> |
| 64.1        | 76.3        | 76.7        | 79.9        | 74.3        | 79.6        | 80.9        | 80.6        | 80.3        | 82.6        | 73.9        | 67.7        | 78.0        | 80.7        | 76.1        |
| 77.9        | 80.0        | 79.5        | 79.9        | 77.8        | 67.8        | 68.5        | 77.6        | 72.8        | 71.3        | 76.0        | 72.1        | 73.8        | 79.3        | 80.4        |
| 75.7        | 74.0        | 75.4        | 77.0        | 73.4        | 72.4        | 74.7        | 74.5        | 71.8        | 71.9        | 75.6        | 71.6        | 73.9        | 76.3        | 73.4        |
| 79.5        | 80.0        | 77.5        | 79.6        | 78.8        | 78.3        | 75.5        | 75.1        | 75.7        | 77.5        | 76.4        | 76.0        | 74.5        | 68.9        | 73.5        |
| <b>79.7</b> | <b>80.4</b> | <b>79.9</b> | <b>80.2</b> | <b>77.7</b> | <b>81.1</b> | <b>79.7</b> | <b>80.0</b> | <b>78.6</b> | <b>80.7</b> | <b>78.9</b> | <b>77.8</b> | <b>78.1</b> | <b>78.3</b> | <b>78.5</b> |

**1c Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Sub-sector - Monthly*

| Keterangan Subsektor<br><i>Sub-sector Description</i>                                                                                                                                                                                                             | 2019        |             |             |             |             |             |             |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                                                                                                                                                                                                                   | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
| <b>1 Makanan, minuman dan tembakau</b><br><b><i>Food, beverages and tobacco</i></b>                                                                                                                                                                               | <b>74.7</b> | <b>69.3</b> | <b>70.6</b> | <b>77.1</b> | <b>72.7</b> | <b>68.8</b> | <b>71.2</b> | <b>74.9</b> | <b>74.3</b> |
| 10 Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                                | 72.0        | 76.4        | 74.9        | 75.4        | 77.3        | 72.1        | 74.1        | 73.4        | 73.9        |
| 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                           | 74.3        | 63.4        | 65.2        | 71.6        | 72.7        | 66.1        | 68.8        | 72.6        | 73.5        |
| 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                            | 77.6        | 77.3        | 79.2        | 90.0        | 69.8        | 72.5        | 74.4        | 80.9        | 76.4        |
| <b>2 Tekstil, pakaian, kulit dan kasut</b><br><b><i>Textiles, wearing apparel, leather and footwear</i></b>                                                                                                                                                       | <b>77.4</b> | <b>74.9</b> | <b>78.1</b> | <b>78.1</b> | <b>77.8</b> | <b>76.7</b> | <b>78.7</b> | <b>78.2</b> | <b>77.3</b> |
| 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                            | 69.8        | 68.4        | 69.9        | 69.9        | 67.9        | 68.1        | 69.2        | 69.2        | 69.0        |
| 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                                     | 86.5        | 82.1        | 87.1        | 86.7        | 88.3        | 86.0        | 89.1        | 87.6        | 86.1        |
| 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                            | 74.5        | 75.0        | 78.1        | 79.8        | 80.0        | 77.9        | 79.8        | 80.3        | 79.1        |
| <b>3 Produk kayu, perabot, keluaran kertas dan percetakan</b><br><b><i>Wood products, furniture, paper products and printing</i></b>                                                                                                                              | <b>77.9</b> | <b>74.6</b> | <b>78.1</b> | <b>78.6</b> | <b>77.7</b> | <b>75.1</b> | <b>76.8</b> | <b>77.3</b> | <b>76.2</b> |
| 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot;<br>pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture;<br/>manufacture of articles of straw and plaiting materials</i> | 76.5        | 71.6        | 76.4        | 76.7        | 74.6        | 72.0        | 72.9        | 74.4        | 72.5        |
| 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                           | 78.9        | 75.8        | 79.9        | 80.4        | 81.5        | 75.4        | 79.2        | 78.1        | 78.8        |
| 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                           | 75.1        | 75.4        | 76.0        | 80.0        | 77.8        | 78.2        | 77.6        | 80.5        | 76.6        |
| 31 Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                           | 81.5        | 78.0        | 80.7        | 78.3        | 78.3        | 78.3        | 80.2        | 79.2        | 79.4        |
| <b>4 Petroleum, kimia, getah dan plastik</b><br><b><i>Petroleum, chemical, rubber and plastic</i></b>                                                                                                                                                             | <b>76.5</b> | <b>78.6</b> | <b>75.0</b> | <b>76.5</b> | <b>80.9</b> | <b>83.1</b> | <b>81.6</b> | <b>80.5</b> | <b>82.1</b> |
| 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                       | 73.8        | 77.4        | 71.9        | 72.8        | 80.0        | 86.5        | 83.4        | 82.4        | 84.8        |
| 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                                      | 79.3        | 82.0        | 77.9        | 80.7        | 83.8        | 82.0        | 81.1        | 79.0        | 81.7        |
| 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                      | 75.8        | 71.7        | 71.4        | 76.1        | 75.4        | 73.6        | 76.1        | 75.7        | 71.9        |
| 22 Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                                       | 78.3        | 76.5        | 77.9        | 78.6        | 79.3        | 77.8        | 79.0        | 78.7        | 77.7        |
| <b>5 Produk mineral bukan logam, logam asas dan produk logam yang direka</b><br><b><i>Non-metallic mineral products, basic metal and fabricated metal products</i></b>                                                                                            | <b>75.4</b> | <b>71.4</b> | <b>75.1</b> | <b>76.4</b> | <b>75.2</b> | <b>71.8</b> | <b>75.7</b> | <b>75.4</b> | <b>74.1</b> |
| 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                          | 72.6        | 69.1        | 73.5        | 73.9        | 72.2        | 68.8        | 73.4        | 72.6        | 70.0        |
| 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                                     | 74.6        | 70.1        | 75.1        | 77.4        | 77.9        | 71.5        | 77.2        | 78.3        | 76.9        |
| 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                       | 78.2        | 74.2        | 76.2        | 77.6        | 75.4        | 74.5        | 76.1        | 75.2        | 75.1        |
| <b>6 Produk elektrik dan elektronik</b><br><b><i>Electrical and electronic products</i></b>                                                                                                                                                                       | <b>76.8</b> | <b>74.3</b> | <b>76.5</b> | <b>77.0</b> | <b>77.1</b> | <b>76.9</b> | <b>79.9</b> | <b>78.7</b> | <b>77.4</b> |
| 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                          | 76.5        | 73.6        | 75.8        | 76.4        | 76.8        | 77.1        | 80.4        | 79.2        | 77.3        |
| 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                                   | 81.2        | 80.1        | 81.4        | 81.1        | 80.9        | 76.8        | 79.9        | 79.5        | 80.1        |
| 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                               | 74.0        | 73.2        | 76.7        | 76.7        | 75.6        | 74.7        | 76.1        | 74.0        | 75.1        |
| <b>7 Kelengkapan pengangkutan dan pembuatan lain</b><br><b><i>Transport equipment and other manufactures</i></b>                                                                                                                                                  | <b>76.8</b> | <b>80.4</b> | <b>79.1</b> | <b>77.9</b> | <b>78.1</b> | <b>76.5</b> | <b>78.9</b> | <b>76.6</b> | <b>78.3</b> |
| 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                       | 76.2        | 83.8        | 80.5        | 77.8        | 77.8        | 77.2        | 79.4        | 76.8        | 79.4        |
| 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                                     | 80.9        | 78.1        | 80.4        | 80.8        | 81.0        | 76.9        | 81.1        | 77.9        | 76.7        |
| 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                                   | 79.5        | 71.1        | 74.8        | 78.0        | 78.9        | 75.3        | 75.7        | 75.4        | 77.0        |
| 33 Pembaikan dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                                  | 69.8        | 73.0        | 71.7        | 72.5        | 72.6        | 72.0        | 74.8        | 73.7        | 75.2        |
| <b>Malaysia</b>                                                                                                                                                                                                                                                   | <b>76.6</b> | <b>75.8</b> | <b>76.1</b> | <b>77.0</b> | <b>78.2</b> | <b>77.9</b> | <b>79.4</b> | <b>78.4</b> | <b>78.4</b> |

| 2020        |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Okt.        | Nov.        | Dis.        | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        | Okt.        | Nov.        | Dis.        |
| <b>75.5</b> | <b>75.2</b> | <b>74.7</b> | <b>72.3</b> | <b>73.2</b> | <b>62.4</b> | <b>54.0</b> | <b>61.5</b> | <b>67.2</b> | <b>69.7</b> | <b>69.9</b> | <b>69.4</b> | <b>67.5</b> | <b>65.8</b> | <b>67.2</b> |
| 71.4        | 71.4        | 71.7        | 72.6        | 72.9        | 73.7        | 71.3        | 76.0        | 78.3        | 75.0        | 75.0        | 74.7        | 73.5        | 71.7        | 71.6        |
| 75.9        | 76.2        | 77.1        | 71.4        | 73.6        | 58.9        | 49.8        | 50.9        | 62.9        | 65.0        | 66.6        | 71.0        | 72.0        | 70.2        | 71.2        |
| 77.4        | 75.6        | 71.5        | 73.9        | 72.5        | 54.0        | 1.6         | 73.6        | 68.6        | 76.0        | 73.2        | 62.1        | 53.4        | 52.1        | 55.4        |
| <b>78.3</b> | <b>78.5</b> | <b>79.4</b> | <b>77.3</b> | <b>77.0</b> | <b>66.4</b> | <b>45.1</b> | <b>58.8</b> | <b>69.1</b> | <b>69.2</b> | <b>70.6</b> | <b>71.3</b> | <b>71.5</b> | <b>71.6</b> | <b>72.9</b> |
| 69.9        | 69.9        | 68.2        | 76.0        | 74.4        | 64.8        | 39.0        | 56.1        | 67.3        | 68.4        | 68.2        | 68.3        | 68.3        | 68.8        | 69.0        |
| 86.6        | 87.5        | 90.8        | 78.4        | 79.9        | 69.1        | 52.4        | 59.7        | 70.3        | 68.9        | 72.9        | 74.4        | 75.0        | 73.4        | 76.0        |
| 82.1        | 80.6        | 83.4        | 79.0        | 76.5        | 61.6        | 44.0        | 67.8        | 72.7        | 73.9        | 71.9        | 72.7        | 71.8        | 77.2        | 78.0        |
| <b>77.1</b> | <b>77.4</b> | <b>76.7</b> | <b>75.2</b> | <b>75.7</b> | <b>65.0</b> | <b>50.9</b> | <b>63.1</b> | <b>72.0</b> | <b>72.3</b> | <b>72.1</b> | <b>73.5</b> | <b>73.1</b> | <b>72.9</b> | <b>73.2</b> |
| 74.5        | 72.8        | 71.7        | 70.9        | 71.5        | 59.6        | 55.0        | 61.6        | 70.6        | 70.0        | 70.1        | 70.9        | 69.6        | 70.5        | 70.4        |
| 79.7        | 81.2        | 79.7        | 78.5        | 78.6        | 66.1        | 61.8        | 68.1        | 75.2        | 75.9        | 74.5        | 76.6        | 77.2        | 77.0        | 77.0        |
| 74.1        | 77.0        | 76.6        | 73.6        | 76.4        | 71.4        | 47.3        | 64.9        | 76.4        | 75.3        | 71.1        | 71.3        | 70.8        | 69.5        | 70.0        |
| 81.2        | 81.3        | 82.3        | 80.1        | 79.1        | 68.6        | 29.7        | 57.4        | 66.6        | 69.2        | 73.3        | 75.9        | 76.0        | 74.8        | 75.8        |
| <b>80.8</b> | <b>83.2</b> | <b>81.9</b> | <b>73.7</b> | <b>74.6</b> | <b>66.3</b> | <b>50.1</b> | <b>65.7</b> | <b>72.2</b> | <b>72.5</b> | <b>72.5</b> | <b>74.9</b> | <b>77.2</b> | <b>72.1</b> | <b>74.3</b> |
| 81.6        | 85.6        | 83.8        | 67.5        | 69.2        | 60.3        | 32.0        | 54.2        | 66.6        | 65.3        | 66.6        | 69.2        | 73.4        | 62.6        | 69.0        |
| 81.4        | 82.6        | 81.4        | 78.1        | 79.3        | 70.8        | 62.8        | 76.5        | 75.6        | 77.9        | 76.2        | 79.8        | 80.8        | 80.3        | 77.4        |
| 72.3        | 72.1        | 67.5        | 76.2        | 73.5        | 69.2        | 69.4        | 68.6        | 73.6        | 73.4        | 77.1        | 77.6        | 76.0        | 72.0        | 77.5        |
| 78.9        | 79.6        | 79.6        | 80.6        | 79.5        | 72.7        | 70.8        | 75.0        | 79.2        | 80.1        | 79.4        | 80.1        | 80.6        | 80.6        | 81.2        |
| <b>75.5</b> | <b>74.9</b> | <b>74.7</b> | <b>74.1</b> | <b>72.5</b> | <b>60.1</b> | <b>47.0</b> | <b>62.1</b> | <b>68.0</b> | <b>72.0</b> | <b>70.0</b> | <b>73.4</b> | <b>72.1</b> | <b>71.4</b> | <b>73.7</b> |
| 73.1        | 72.5        | 73.0        | 71.4        | 66.8        | 55.1        | 40.2        | 57.4        | 62.5        | 68.7        | 69.5        | 69.1        | 69.8        | 68.7        | 70.7        |
| 78.5        | 76.3        | 74.7        | 74.9        | 72.5        | 59.5        | 49.3        | 62.7        | 68.8        | 71.9        | 67.3        | 72.4        | 71.5        | 70.3        | 74.7        |
| 75.0        | 75.6        | 75.9        | 75.6        | 76.7        | 64.2        | 49.2        | 65.0        | 71.3        | 74.5        | 72.5        | 77.3        | 74.2        | 74.1        | 75.1        |
| <b>78.4</b> | <b>77.1</b> | <b>77.9</b> | <b>75.5</b> | <b>76.1</b> | <b>63.8</b> | <b>48.4</b> | <b>65.9</b> | <b>71.6</b> | <b>73.0</b> | <b>73.6</b> | <b>75.1</b> | <b>75.4</b> | <b>74.6</b> | <b>76.0</b> |
| 78.2        | 76.6        | 77.8        | 75.0        | 76.1        | 64.2        | 47.9        | 65.1        | 71.3        | 72.7        | 73.4        | 75.1        | 75.1        | 74.3        | 75.9        |
| 81.5        | 80.8        | 79.8        | 78.9        | 77.3        | 63.3        | 49.1        | 69.4        | 71.8        | 75.5        | 75.5        | 76.8        | 75.1        | 74.2        | 74.2        |
| 76.7        | 77.0        | 76.3        | 76.2        | 74.5        | 61.4        | 52.6        | 68.9        | 73.7        | 73.3        | 72.5        | 73.1        | 78.9        | 77.9        | 79.8        |
| <b>79.5</b> | <b>80.0</b> | <b>75.7</b> | <b>74.3</b> | <b>72.9</b> | <b>65.7</b> | <b>34.2</b> | <b>55.0</b> | <b>69.0</b> | <b>69.7</b> | <b>72.2</b> | <b>73.8</b> | <b>74.2</b> | <b>72.7</b> | <b>73.5</b> |
| 82.2        | 80.7        | 75.3        | 71.4        | 70.3        | 64.8        | 24.7        | 49.1        | 65.6        | 69.3        | 71.9        | 73.0        | 72.8        | 72.1        | 73.7        |
| 75.1        | 76.6        | 76.3        | 80.1        | 79.0        | 68.8        | 47.1        | 61.4        | 72.1        | 66.8        | 66.9        | 72.8        | 77.6        | 72.0        | 70.6        |
| 75.2        | 78.8        | 75.7        | 77.8        | 75.2        | 62.9        | 56.5        | 67.3        | 73.9        | 74.7        | 78.2        | 78.2        | 75.2        | 75.0        | 76.5        |
| 75.1        | 83.8        | 77.4        | 77.8        | 74.5        | 68.9        | 51.3        | 66.7        | 79.8        | 72.0        | 78.2        | 76.4        | 74.9        | 75.9        | 75.3        |
| <b>78.8</b> | <b>79.1</b> | <b>78.4</b> | <b>74.6</b> | <b>74.7</b> | <b>64.4</b> | <b>47.7</b> | <b>63.9</b> | <b>70.9</b> | <b>72.2</b> | <b>72.4</b> | <b>74.4</b> | <b>75.1</b> | <b>72.8</b> | <b>74.5</b> |

**1c Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Sub-sector - Monthly*

| Keterangan Subsektor<br><i>Sub-sector Description</i>                                                                                                                                                                                                             | 2021        |             |             |             |             |             |             |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                                                                                                                                                                                                                   | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
| <b>1 Makanan, minuman dan tembakau</b><br><b><i>Food, beverages and tobacco</i></b>                                                                                                                                                                               | <b>72.6</b> | <b>68.7</b> | <b>74.3</b> | <b>72.2</b> | <b>68.4</b> | <b>49.1</b> | <b>49.3</b> | <b>50.7</b> | <b>75.5</b> |
| 10 Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                                | 73.7        | 72.0        | 79.7        | 78.3        | 73.7        | 76.7        | 77.9        | 76.3        | 77.2        |
| 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                           | 69.6        | 61.9        | 69.1        | 68.4        | 61.6        | 58.0        | 57.3        | 61.1        | 74.0        |
| 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                            | 78.4        | 81.1        | 81.4        | 76.3        | 79.3        | 9.7         | 8.8         | 9.9         | 77.6        |
| <b>2 Tekstil, pakaian, kulit dan kasut</b><br><b><i>Textiles, wearing apparel, leather and footwear</i></b>                                                                                                                                                       | <b>77.3</b> | <b>78.7</b> | <b>77.8</b> | <b>79.6</b> | <b>77.3</b> | <b>69.9</b> | <b>69.4</b> | <b>67.3</b> | <b>71.0</b> |
| 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                            | 75.3        | 81.9        | 77.9        | 80.5        | 76.6        | 70.0        | 70.3        | 64.9        | 69.6        |
| 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                                     | 80.4        | 76.7        | 78.4        | 79.5        | 78.9        | 70.7        | 69.2        | 71.4        | 71.9        |
| 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                            | 73.1        | 72.1        | 74.4        | 75.3        | 73.3        | 65.5        | 65.2        | 61.7        | 73.6        |
| <b>3 Produk kayu, perabot, keluaran kertas dan percetakan</b><br><b><i>Wood products, furniture, paper products and printing</i></b>                                                                                                                              | <b>73.4</b> | <b>72.0</b> | <b>74.1</b> | <b>72.9</b> | <b>71.5</b> | <b>66.5</b> | <b>64.7</b> | <b>66.2</b> | <b>69.5</b> |
| 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot;<br>pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture;<br/>manufacture of articles of straw and plaiting materials</i> | 68.5        | 68.5        | 69.9        | 69.6        | 70.7        | 64.7        | 63.8        | 67.3        | 68.6        |
| 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                           | 79.7        | 75.1        | 78.1        | 76.8        | 75.5        | 73.7        | 70.8        | 68.4        | 71.9        |
| 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                           | 72.5        | 73.6        | 77.1        | 73.8        | 68.9        | 65.6        | 62.4        | 65.9        | 67.2        |
| 31 Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                           | 74.7        | 73.2        | 74.2        | 72.9        | 69.8        | 59.9        | 59.5        | 61.5        | 70.0        |
| <b>4 Petroleum, kimia, getah dan plastik</b><br><b><i>Petroleum, chemical, rubber and plastic</i></b>                                                                                                                                                             | <b>79.9</b> | <b>79.8</b> | <b>79.0</b> | <b>78.3</b> | <b>79.6</b> | <b>75.0</b> | <b>74.2</b> | <b>69.4</b> | <b>67.6</b> |
| 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                       | 78.8        | 79.2        | 78.0        | 78.0        | 79.1        | 74.7        | 74.3        | 64.5        | 53.8        |
| 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                                      | 82.9        | 82.5        | 80.0        | 78.2        | 82.2        | 76.1        | 76.6        | 75.9        | 82.3        |
| 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                      | 72.1        | 74.1        | 72.4        | 75.0        | 69.8        | 68.9        | 72.3        | 74.3        | 76.7        |
| 22 Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                                       | 78.7        | 77.6        | 80.2        | 79.2        | 77.4        | 74.4        | 70.7        | 70.6        | 75.6        |
| <b>5 Produk mineral bukan logam, logam asas dan produk logam yang direka</b><br><b><i>Non-metallic mineral products, basic metal and fabricated metal products</i></b>                                                                                            | <b>73.5</b> | <b>71.0</b> | <b>75.2</b> | <b>74.7</b> | <b>69.3</b> | <b>57.6</b> | <b>60.1</b> | <b>64.2</b> | <b>70.5</b> |
| 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                          | 70.0        | 70.2        | 73.9        | 74.0        | 68.7        | 54.8        | 58.8        | 63.5        | 68.5        |
| 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                                     | 73.7        | 68.9        | 73.9        | 73.7        | 67.9        | 54.6        | 57.2        | 62.6        | 74.1        |
| 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                       | 76.1        | 73.3        | 77.2        | 76.0        | 71.0        | 62.1        | 63.4        | 66.0        | 69.3        |
| <b>6 Produk elektrik dan elektronik</b><br><b><i>Electrical and electronic products</i></b>                                                                                                                                                                       | <b>75.2</b> | <b>75.6</b> | <b>78.0</b> | <b>77.4</b> | <b>76.6</b> | <b>77.3</b> | <b>71.4</b> | <b>72.9</b> | <b>79.1</b> |
| 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                          | 75.1        | 75.5        | 77.7        | 77.2        | 76.7        | 79.3        | 73.3        | 72.7        | 79.4        |
| 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                                   | 75.4        | 75.5        | 79.0        | 79.0        | 78.1        | 73.0        | 68.3        | 73.6        | 78.6        |
| 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                               | 76.7        | 76.2        | 79.5        | 76.8        | 73.8        | 63.6        | 57.7        | 74.0        | 77.0        |
| <b>7 Kelengkapan pengangkutan dan pembuatan lain</b><br><b><i>Transport equipment and other manufactures</i></b>                                                                                                                                                  | <b>76.8</b> | <b>73.3</b> | <b>79.2</b> | <b>76.5</b> | <b>76.8</b> | <b>50.0</b> | <b>47.0</b> | <b>60.4</b> | <b>73.2</b> |
| 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                       | 77.5        | 74.4        | 81.6        | 77.2        | 78.9        | 38.6        | 37.0        | 54.7        | 73.8        |
| 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                                     | 73.6        | 68.4        | 76.6        | 76.5        | 74.5        | 68.4        | 62.1        | 71.8        | 74.4        |
| 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                                   | 76.1        | 73.9        | 75.1        | 74.6        | 72.1        | 68.8        | 68.3        | 67.4        | 68.6        |
| 33 Pembaikan dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                                  | 80.2        | 75.6        | 72.3        | 74.0        | 72.7        | 67.7        | 59.7        | 67.4        | 72.1        |
| <b>Malaysia</b>                                                                                                                                                                                                                                                   | <b>76.5</b> | <b>75.8</b> | <b>77.7</b> | <b>76.9</b> | <b>76.1</b> | <b>70.0</b> | <b>67.6</b> | <b>68.5</b> | <b>72.7</b> |

| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. |
| 75.8 | 77.7 | 72.8 | 88.3 | 83.3 | 84.3 | 77.9 | 84.9 | 83.8 | 79.8 | 74.8 | 79.1 | 79.0 | 73.0 | 86.4 |
| 73.5 | 70.8 | 71.0 | 76.9 | 69.9 | 75.8 | 67.2 | 77.5 | 78.6 | 79.0 | 80.0 | 77.7 | 78.7 | 78.5 | 76.9 |
| 74.3 | 78.3 | 73.8 | 87.9 | 80.5 | 81.1 | 81.1 | 80.8 | 79.5 | 82.6 | 82.4 | 80.4 | 79.9 | 78.8 | 83.5 |
| 80.8 | 81.0 | 72.0 | 97.9 | 99.1 | 97.7 | 79.1 | 99.3 | 96.8 | 74.3 | 54.6 | 77.6 | 77.5 | 56.5 | 99.6 |
| 74.4 | 75.7 | 76.0 | 81.7 | 78.6 | 82.4 | 82.0 | 81.0 | 81.2 | 82.7 | 80.8 | 83.7 | 78.9 | 78.9 | 80.2 |
| 71.9 | 72.5 | 72.8 | 88.1 | 84.8 | 86.8 | 84.5 | 80.7 | 83.8 | 85.8 | 86.1 | 91.4 | 85.4 | 84.7 | 83.6 |
| 77.3 | 79.7 | 80.5 | 73.1 | 70.8 | 76.0 | 78.5 | 80.8 | 75.8 | 77.5 | 72.0 | 73.2 | 68.8 | 69.5 | 73.6 |
| 73.9 | 74.1 | 72.1 | 90.0 | 83.9 | 89.2 | 85.0 | 82.9 | 92.7 | 90.7 | 94.3 | 92.3 | 92.1 | 92.9 | 93.3 |
| 73.3 | 73.7 | 73.1 | 78.0 | 76.2 | 80.6 | 79.0 | 76.7 | 80.1 | 78.4 | 79.7 | 78.6 | 78.1 | 76.1 | 75.8 |
| 73.6 | 72.6 | 69.0 | 71.8 | 70.7 | 75.3 | 73.8 | 72.2 | 74.4 | 71.8 | 75.2 | 73.4 | 72.6 | 70.0 | 69.7 |
| 70.7 | 73.7 | 75.5 | 83.6 | 80.0 | 84.5 | 80.3 | 76.8 | 80.9 | 79.5 | 78.1 | 77.6 | 77.9 | 75.4 | 76.5 |
| 75.1 | 74.1 | 74.4 | 75.9 | 77.3 | 80.9 | 81.8 | 80.7 | 85.9 | 83.3 | 85.2 | 85.0 | 82.2 | 83.5 | 82.6 |
| 74.8 | 75.7 | 76.7 | 83.9 | 80.4 | 85.2 | 84.7 | 81.9 | 85.0 | 85.1 | 85.8 | 84.5 | 85.7 | 82.8 | 80.6 |
| 69.6 | 73.6 | 74.0 | 83.4 | 84.0 | 80.3 | 83.9 | 75.9 | 73.4 | 80.0 | 80.9 | 81.1 | 82.6 | 82.6 | 81.3 |
| 57.3 | 64.6 | 67.7 | 85.7 | 90.8 | 76.8 | 86.4 | 71.6 | 66.2 | 79.8 | 80.1 | 85.0 | 84.7 | 86.4 | 85.9 |
| 81.6 | 83.4 | 80.8 | 81.1 | 77.7 | 84.3 | 82.1 | 79.7 | 78.5 | 80.8 | 82.5 | 76.4 | 81.2 | 80.0 | 77.4 |
| 69.8 | 72.4 | 71.3 | 78.6 | 71.1 | 80.4 | 78.5 | 76.3 | 84.6 | 86.7 | 88.2 | 84.2 | 82.2 | 79.2 | 69.5 |
| 78.8 | 79.1 | 78.4 | 82.0 | 79.2 | 82.1 | 81.4 | 79.5 | 80.8 | 79.0 | 80.0 | 79.4 | 80.0 | 78.1 | 77.4 |
| 72.8 | 72.1 | 72.0 | 81.3 | 76.4 | 80.4 | 80.4 | 76.4 | 79.5 | 80.8 | 79.9 | 78.9 | 79.3 | 79.1 | 77.8 |
| 70.8 | 70.0 | 71.9 | 82.3 | 76.6 | 77.7 | 81.2 | 79.1 | 81.4 | 82.7 | 82.0 | 80.7 | 80.0 | 78.7 | 78.7 |
| 74.8 | 73.3 | 70.2 | 80.2 | 74.1 | 80.2 | 77.8 | 74.2 | 77.2 | 79.9 | 79.1 | 76.7 | 75.8 | 77.2 | 74.0 |
| 72.6 | 72.6 | 73.5 | 81.4 | 78.1 | 82.6 | 81.8 | 76.1 | 79.9 | 80.2 | 78.9 | 79.4 | 81.5 | 81.0 | 80.2 |
| 78.9 | 78.4 | 79.9 | 80.6 | 78.5 | 83.1 | 78.3 | 77.7 | 82.8 | 82.2 | 81.4 | 83.1 | 78.1 | 79.0 | 81.9 |
| 78.6 | 77.5 | 80.1 | 79.9 | 78.5 | 82.8 | 77.1 | 77.4 | 82.8 | 81.4 | 80.3 | 83.3 | 77.7 | 78.5 | 81.5 |
| 81.3 | 83.2 | 80.5 | 83.3 | 78.1 | 85.2 | 81.5 | 78.1 | 82.7 | 85.8 | 86.2 | 83.5 | 81.4 | 81.7 | 85.6 |
| 78.8 | 80.3 | 77.0 | 82.7 | 79.0 | 83.4 | 84.5 | 79.4 | 83.1 | 84.5 | 84.6 | 80.4 | 77.6 | 80.4 | 81.4 |
| 79.0 | 74.9 | 74.2 | 77.9 | 81.5 | 83.6 | 77.3 | 82.1 | 82.5 | 81.3 | 86.2 | 85.1 | 81.7 | 84.1 | 75.7 |
| 82.8 | 75.6 | 75.3 | 77.7 | 85.2 | 85.0 | 80.3 | 82.2 | 82.5 | 81.2 | 87.4 | 90.4 | 83.7 | 87.7 | 72.6 |
| 71.7 | 74.2 | 71.3 | 77.0 | 75.0 | 82.3 | 79.7 | 82.0 | 84.3 | 84.9 | 88.9 | 73.2 | 79.8 | 77.0 | 91.6 |
| 72.4 | 73.4 | 72.7 | 78.9 | 72.6 | 76.2 | 70.1 | 79.1 | 78.4 | 77.7 | 78.4 | 77.6 | 76.9 | 77.2 | 79.4 |
| 76.2 | 73.2 | 74.9 | 81.6 | 80.9 | 84.4 | 59.4 | 84.6 | 84.3 | 78.3 | 81.4 | 81.0 | 76.1 | 82.6 | 68.3 |
| 74.5 | 75.2 | 75.7 | 81.3 | 80.2 | 81.7 | 80.4 | 77.4 | 79.1 | 80.9 | 81.2 | 81.7 | 80.1 | 80.4 | 80.2 |

**1c Kapasiti Penggunaan Industri Pembuatan mengikut Subsektor - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Sub-sector - Monthly*

| Keterangan Subsektor<br><i>Sub-sector Description</i>                                                                                                                                                                                                             | 2023        |             |             |             |             |             |             |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                                                                                                                                                                                                                   | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
| <b>1 Makanan, minuman dan tembakau</b><br><i>Food, beverages and tobacco</i>                                                                                                                                                                                      | <b>82.3</b> | <b>80.9</b> | <b>82.5</b> | <b>74.3</b> | <b>78.5</b> | <b>76.8</b> | <b>78.5</b> | <b>79.6</b> | <b>81.3</b> |
| 10 Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                                | 77.6        | 76.9        | 78.2        | 72.6        | 77.0        | 76.2        | 78.2        | 79.4        | 80.8        |
| 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                           | 79.0        | 77.3        | 77.3        | 78.3        | 82.5        | 80.0        | 80.1        | 80.2        | 80.5        |
| 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                            | 92.7        | 91.5        | 96.8        | 92.9        | 93.4        | 82.3        | 82.0        | 81.7        | 89.4        |
| <b>2 Tekstil, pakaian, kulit dan kasut</b><br><i>Textiles, wearing apparel, leather and footwear</i>                                                                                                                                                              | <b>76.9</b> | <b>75.4</b> | <b>81.8</b> | <b>79.2</b> | <b>79.4</b> | <b>81.4</b> | <b>79.0</b> | <b>79.7</b> | <b>80.0</b> |
| 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                            | 69.9        | 75.7        | 79.0        | 75.9        | 76.0        | 80.2        | 76.6        | 77.0        | 76.2        |
| 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                                     | 78.6        | 73.7        | 83.1        | 81.6        | 81.4        | 82.2        | 81.1        | 82.4        | 83.3        |
| 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                            | 91.0        | 83.1        | 84.2        | 83.0        | 85.3        | 83.6        | 79.1        | 79.2        | 81.4        |
| <b>3 Produk kayu, perabot, keluaran kertas dan percetakan</b><br><i>Wood products, furniture, paper products and printing</i>                                                                                                                                     | <b>73.9</b> | <b>75.3</b> | <b>76.5</b> | <b>76.0</b> | <b>76.7</b> | <b>76.1</b> | <b>76.0</b> | <b>77.5</b> | <b>77.9</b> |
| 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot;<br>pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture;<br/>manufacture of articles of straw and plaiting materials</i> | 67.9        | 68.3        | 68.9        | 68.5        | 70.5        | 68.9        | 69.9        | 72.8        | 73.1        |
| 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                           | 74.6        | 77.3        | 79.9        | 76.5        | 75.6        | 77.6        | 77.0        | 77.4        | 78.0        |
| 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                           | 81.3        | 82.6        | 80.6        | 82.8        | 83.8        | 83.2        | 82.9        | 83.4        | 83.8        |
| 31 Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                           | 78.4        | 79.7        | 82.7        | 79.8        | 80.2        | 78.0        | 77.2        | 78.5        | 79.3        |
| <b>4 Petroleum, kimia, getah dan plastik</b><br><i>Petroleum, chemical, rubber and plastic</i>                                                                                                                                                                    | <b>82.3</b> | <b>79.6</b> | <b>80.7</b> | <b>75.7</b> | <b>77.5</b> | <b>78.0</b> | <b>77.8</b> | <b>78.4</b> | <b>76.7</b> |
| 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                       | 85.9        | 79.4        | 81.4        | 72.8        | 73.5        | 74.0        | 74.4        | 74.6        | 73.4        |
| 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                                      | 79.7        | 80.4        | 79.9        | 79.4        | 82.1        | 82.4        | 82.3        | 83.1        | 80.3        |
| 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                      | 79.6        | 85.8        | 83.1        | 80.7        | 80.6        | 81.6        | 81.2        | 83.5        | 85.8        |
| 22 Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                                       | 78.4        | 78.3        | 80.0        | 76.0        | 79.2        | 79.7        | 78.4        | 79.1        | 77.9        |
| <b>5 Produk mineral bukan logam, logam asas dan produk logam yang direka</b><br><i>Non-metallic mineral products, basic metal and fabricated metal products</i>                                                                                                   | <b>76.1</b> | <b>79.2</b> | <b>81.5</b> | <b>78.6</b> | <b>79.2</b> | <b>80.3</b> | <b>80.0</b> | <b>81.9</b> | <b>82.6</b> |
| 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                          | 73.3        | 78.4        | 80.4        | 80.3        | 79.3        | 81.7        | 81.4        | 83.8        | 85.1        |
| 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                                     | 73.9        | 78.7        | 82.5        | 78.0        | 77.1        | 77.3        | 76.9        | 79.5        | 80.6        |
| 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                       | 80.0        | 80.2        | 81.6        | 77.5        | 80.5        | 81.1        | 80.9        | 81.9        | 82.0        |
| <b>6 Produk elektrik dan elektronik</b><br><i>Electrical and electronic products</i>                                                                                                                                                                              | <b>78.0</b> | <b>78.5</b> | <b>80.0</b> | <b>77.5</b> | <b>79.8</b> | <b>81.0</b> | <b>78.6</b> | <b>79.7</b> | <b>81.7</b> |
| 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                          | 77.9        | 78.2        | 79.3        | 77.0        | 79.0        | 80.8        | 77.9        | 78.3        | 81.2        |
| 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                                   | 79.3        | 81.1        | 82.4        | 74.9        | 78.8        | 80.1        | 79.2        | 82.5        | 82.6        |
| 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                               | 77.6        | 78.6        | 83.5        | 83.9        | 85.8        | 83.6        | 82.7        | 86.1        | 84.1        |
| <b>7 Kelengkapan pengangkutan dan pembuatan lain</b><br><i>Transport equipment and other manufactures</i>                                                                                                                                                         | <b>82.3</b> | <b>83.6</b> | <b>86.1</b> | <b>76.6</b> | <b>83.9</b> | <b>81.5</b> | <b>80.8</b> | <b>81.7</b> | <b>81.9</b> |
| 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                       | 83.4        | 85.9        | 89.0        | 74.8        | 88.3        | 82.9        | 81.2        | 82.7        | 81.8        |
| 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                                     | 79.6        | 79.9        | 80.3        | 80.2        | 76.6        | 79.6        | 77.8        | 79.4        | 81.3        |
| 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                                   | 80.2        | 78.8        | 82.7        | 77.2        | 81.5        | 79.1        | 81.2        | 81.1        | 82.4        |
| 33 Pembaikan dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                                  | 82.5        | 81.9        | 83.9        | 78.1        | 78.0        | 80.8        | 82.9        | 81.7        | 82.3        |
| <b>Malaysia</b>                                                                                                                                                                                                                                                   | <b>79.3</b> | <b>79.2</b> | <b>80.8</b> | <b>76.5</b> | <b>79.0</b> | <b>79.2</b> |             |             |             |

**2a Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Tahunan**  
*Manufacturing Industry Capacity Utilisation by Group - Yearly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                   | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| 101                               | Pemprosesan dan pengawetan daging<br><i>Processing and preserving of meat</i>                                                                                                                                                                     | 71.1 | 71.1 | 68.8 | 68.1 | 73.0 | 85.3 | 80.2 | 80.9 |
| 102                               | Pemprosesan dan pengawetan ikan, krustasea dan moluska<br><i>Processing and preserving of fish, crustaceans and molluscs</i>                                                                                                                      | 68.6 | 68.1 | 70.2 | 73.4 | 72.2 | 70.8 | 70.4 | 74.9 |
| 103                               | Pemprosesan dan pengawetan buah-buahan dan sayur-sayuran<br><i>Processing and preserving of fruits and vegetable</i>                                                                                                                              | 58.7 | 61.6 | 59.4 | 64.0 | 65.4 | 64.3 | 64.2 | 78.9 |
| 104                               | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                | 74.3 | 73.8 | 76.0 | 78.7 | 71.3 | 71.1 | 74.9 | 67.4 |
| 105                               | Pembuatan produk tenusu<br><i>Manufacture of dairy products</i>                                                                                                                                                                                   | 76.7 | 78.9 | 77.1 | 75.8 | 66.1 | 73.0 | 69.0 | 76.6 |
| 106                               | Pembuatan produk bijian, kanji dan produk berkanji<br><i>Manufacture of grain mill products, starches and starch products</i>                                                                                                                     | 70.7 | 72.2 | 66.2 | 60.5 | 67.8 | 60.0 | 59.6 | 70.0 |
| 107                               | Pembuatan produk makanan lain<br><i>Manufacture of other food products</i>                                                                                                                                                                        | 77.8 | 77.3 | 78.8 | 78.5 | 78.9 | 79.0 | 80.0 | 83.9 |
| 108                               | Pembuatan makanan haiwan tersedia<br><i>Manufacture of prepared animal feeds</i>                                                                                                                                                                  | 72.7 | 76.8 | 78.0 | 73.2 | 72.6 | 73.2 | 70.8 | 79.9 |
| 110                               | Pembuatan minuman ringan<br><i>Manufacture of beverages</i>                                                                                                                                                                                       | 75.4 | 76.7 | 67.3 | 71.9 | 71.4 | 65.3 | 67.3 | 81.5 |
| 120                               | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                               | 73.3 | 73.5 | 73.0 | 65.3 | 76.9 | 59.7 | 61.4 | 84.2 |
| 131                               | Pemintalan, penenunan dan penyiapan tekstil<br><i>Spinning, weaving and finishing of textiles</i>                                                                                                                                                 | 80.2 | 88.1 | 67.8 | 65.5 | 65.6 | 62.5 | 73.7 | 86.5 |
| 139                               | Pembuatan tekstil lain<br><i>Manufacture of other textiles</i>                                                                                                                                                                                    | 82.5 | 81.7 | 79.8 | 77.7 | 78.0 | 73.8 | 73.7 | 82.8 |
| 141                               | Pembuatan pakaian, kecuali pakaian berbulu<br><i>Manufacture of wearing apparel, except fur apparel</i>                                                                                                                                           | 90.4 | 89.7 | 85.1 | 87.2 | 87.0 | 71.5 | 76.3 | 74.0 |
| 142 & 143                         | Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye<br><i>Manufacture of articles of fur, knitted and crocheted apparel</i>                                                                                                | 71.2 | 71.2 | 68.6 | 86.0 | 81.1 | 57.9 | 60.8 | 72.6 |
| 151                               | Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu<br><i>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur</i> | 82.5 | 86.3 | 83.6 | 85.3 | 78.5 | 64.1 | 67.6 | 89.7 |
| 152                               | Pembuatan kasut<br><i>Manufacture of footwear</i>                                                                                                                                                                                                 | 81.7 | 79.4 | 78.7 | 77.1 | 79.9 | 77.4 | 75.4 | 90.2 |
| 161                               | Pengilangan dan pengetaman kayu<br><i>Sawmilling and planning of wood</i>                                                                                                                                                                         | 72.8 | 74.3 | 75.3 | 73.5 | 75.3 | 68.8 | 68.1 | 77.3 |
| 162                               | Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain<br><i>Manufacture of products of wood, cork, straw and plaiting materials</i>                                                                                                | 78.5 | 74.2 | 75.0 | 76.0 | 73.4 | 67.1 | 69.2 | 71.0 |
| 170                               | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                              | 77.3 | 79.9 | 78.2 | 81.0 | 79.1 | 73.9 | 74.2 | 79.3 |
| 181 & 182                         | Percetakan dan aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman<br><i>Printing and service activities related to printing &amp; reproduction of recorded media</i>                                                  | 77.1 | 76.3 | 77.1 | 76.7 | 73.5 | 66.6 | 69.4 | 76.5 |
| 192                               | Pembuatan produk petroleum bertapis<br><i>Manufacture of refined petroleum products</i>                                                                                                                                                           | 85.5 | 86.1 | 86.9 | 84.4 | 80.3 | 63.0 | 70.8 | 81.6 |
| 201                               | Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer<br><i>Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms</i>                      | 83.4 | 84.9 | 79.5 | 84.1 | 82.5 | 76.6 | 81.6 | 80.2 |
| 202 & 203                         | Pembuatan produk kimia lain dan serat buatan manusia<br><i>Manufacture of other chemical products and man-made fibres</i>                                                                                                                         | 76.4 | 77.6 | 79.0 | 76.2 | 76.6 | 65.4 | 70.9 | 73.7 |
| 210                               | Pembuatan produk farmaseutikal, kimia perubatan dan botani<br><i>Manufacture of pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                    | 72.3 | 74.7 | 72.4 | 74.6 | 73.3 | 73.7 | 72.4 | 80.0 |
| 221                               | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                   | 81.0 | 82.3 | 82.3 | 80.1 | 80.3 | 81.9 | 79.1 | 79.4 |
| 222                               | Pembuatan produk plastik<br><i>Manufacture of plastics products</i>                                                                                                                                                                               | 76.2 | 75.2 | 77.7 | 77.6 | 76.5 | 74.4 | 74.1 | 80.5 |

**2a Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Tahunan**  
*Manufacturing Industry Capacity Utilisation by Group - Yearly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                                                                                           | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| 231                               | Pembuatan kaca dan produk kaca<br><i>Manufacture of glass and glass products</i>                                                                                                                                                                                                                                          | 81.7 | 80.7 | 81.4 | 79.0 | 74.8 | 70.1 | 73.9 | 85.1 |
| 239                               | Pembuatan pengeluaran galian bukan logam t.t.t.l.<br><i>Manufacture of non-metallic mineral products n.e.c.</i>                                                                                                                                                                                                           | 72.7 | 75.0 | 71.1 | 71.8 | 71.7 | 63.2 | 67.1 | 79.3 |
| 241                               | Pembuatan besi dan keluli asas<br><i>Manufacture of basic iron and steel</i>                                                                                                                                                                                                                                              | 75.3 | 75.8 | 76.7 | 78.1 | 75.0 | 65.1 | 64.4 | 76.8 |
| 242                               | Pembuatan logam asas berharga dan logam bukan ferus lain<br><i>Manufacture of basic precious and other non-ferrous metals</i>                                                                                                                                                                                             | 77.5 | 78.0 | 80.6 | 75.9 | 76.9 | 73.0 | 76.9 | 77.9 |
| 243                               | Pengacuan logam<br><i>Casting of metals</i>                                                                                                                                                                                                                                                                               | 78.2 | 78.2 | 73.0 | 74.0 | 75.6 | 68.4 | 65.1 | 76.8 |
| 251 & 252                         | Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru<br><i>Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition</i>                                                                                                                        | 77.3 | 77.1 | 77.1 | 77.7 | 77.2 | 69.5 | 76.5 | 78.0 |
| 259                               | Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam<br><i>Manufacture of other fabricated metal products; metal working service activities</i>                                                                                                                                       | 78.5 | 76.7 | 73.5 | 77.8 | 76.5 | 70.7 | 70.0 | 78.2 |
| 261                               | Pembuatan komponen dan papan elektronik<br><i>Manufacture of electronic components and boards</i>                                                                                                                                                                                                                         | 82.4 | 84.7 | 85.6 | 84.3 | 81.6 | 75.5 | 81.2 | 85.0 |
| 262                               | Pembuatan komputer dan kelengkapan peranti<br><i>Manufacture of computers and peripheral equipment</i>                                                                                                                                                                                                                    | 80.1 | 71.6 | 67.4 | 68.5 | 63.4 | 59.5 | 63.6 | 70.4 |
| 263                               | Pembuatan peralatan komunikasi<br><i>Manufacture of communication equipment</i>                                                                                                                                                                                                                                           | 77.5 | 80.6 | 71.0 | 77.9 | 74.4 | 74.3 | 78.2 | 77.6 |
| 264                               | Pembuatan peralatan elektronik pengguna<br><i>Manufacture of consumer electronics</i>                                                                                                                                                                                                                                     | 80.5 | 82.2 | 79.9 | 73.3 | 77.6 | 62.4 | 75.5 | 71.3 |
| 265                               | Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam<br><i>Manufacture of measuring, testing, navigating and control equipment; watches and clocks</i>                                                                                                                                   | 71.9 | 68.1 | 69.9 | 69.8 | 68.7 | 63.4 | 67.7 | 81.4 |
| 266                               | Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik<br><i>Manufacture of irradiation, electromedical and electrotherapeutic equipment</i>                                                                                                                                                             | 87.8 | 90.4 | 84.4 | 54.7 | 60.6 | 68.5 | 68.2 | 81.7 |
| 267 & 268                         | Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal<br><i>Manufacture of optical instruments, photographic equipment, magnetic and optical media</i>                                                                                                                                           | 77.7 | 77.2 | 86.4 | 77.0 | 65.6 | 70.0 | 68.6 | 84.3 |
| 271                               | Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik<br><i>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus</i>                                                                                                    | 73.8 | 75.4 | 77.0 | 77.2 | 78.9 | 74.7 | 77.6 | 82.9 |
| 272                               | Pembuatan bateri dan akumulator<br><i>Manufacture of batteries and accumulators</i>                                                                                                                                                                                                                                       | 83.8 | 79.0 | 93.3 | 85.0 | 84.1 | 64.4 | 82.5 | 81.0 |
| 273                               | Pembuatan pendawaian dan peranti pendawaian<br><i>Manufacture of wiring and wiring devices</i>                                                                                                                                                                                                                            | 77.3 | 75.6 | 78.9 | 76.1 | 75.9 | 68.7 | 72.9 | 80.2 |
| 274                               | Pembuatan kelengkapan pencahayaan elektrik<br><i>Manufacture of electric lighting equipment</i>                                                                                                                                                                                                                           | 66.6 | 63.3 | 66.6 | 68.5 | 67.2 | 62.5 | 67.0 | 77.1 |
| 275                               | Pembuatan perkakasan domestik<br><i>Manufacture of domestic appliances</i>                                                                                                                                                                                                                                                | 81.0 | 75.7 | 81.5 | 87.0 | 84.5 | 69.0 | 75.4 | 84.4 |
| 279                               | Pembuatan kelengkapan elektrik lain<br><i>Manufacture of other electrical equipment</i>                                                                                                                                                                                                                                   | 83.9 | 84.5 | 87.0 | 87.6 | 86.3 | 84.7 | 88.0 | 88.5 |
| 281 & 282                         | Pembuatan jentera kegunaan umum dan kegunaan khas<br><i>Manufacture of general-purpose and special-purpose machinery</i>                                                                                                                                                                                                  | 78.5 | 77.0 | 76.2 | 76.5 | 75.6 | 71.9 | 74.1 | 81.9 |
| 291                               | Pembuatan kenderaan bermotor<br><i>Manufacture of motor vehicles</i>                                                                                                                                                                                                                                                      | 75.9 | 68.9 | 67.1 | 77.9 | 78.2 | 62.2 | 62.8 | 80.1 |
| 292                               | Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler<br><i>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers</i>                                                                                                                       | 71.3 | 72.4 | 77.1 | 75.4 | 77.4 | 70.4 | 64.3 | 76.9 |
| 293                               | Pembuatan alat ganti dan aksesori untuk kenderaan bermotor<br><i>Manufacture of parts and accessories for motor vehicles</i>                                                                                                                                                                                              | 80.6 | 78.6 | 75.2 | 78.1 | 80.0 | 68.4 | 77.4 | 87.6 |
| 301                               | Pembinaan kapal dan bot<br><i>Building of ships and boats</i>                                                                                                                                                                                                                                                             | 69.1 | 73.2 | 76.6 | 70.7 | 75.0 | 63.3 | 68.7 | 74.9 |
| 302, 303, 304 & 309               | Pembuatan lokomotif keretapi, rolling stock, kapal angkasa dan udara, jentera berkaitan, kenderaan tempur ketenteraan dan kelengkapan pengangkutan t.t.t.l.<br><i>Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c.</i> | 80.8 | 77.3 | 77.9 | 76.6 | 81.1 | 78.1 | 72.2 | 84.5 |

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                        | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 310                        | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 78.0        | 79.4        | 81.4        | 80.0        | 79.9        | 68.8        | 70.2        | 83.8        |
| 321                        | Pembuatan barang kemas, <i>bijouterie</i> dan artikel berkaitan<br><i>Manufacture of jewellery, bijouterie and related articles</i>                                                                                                             | 73.1        | 74.8        | 76.1        | 75.5        | 76.6        | 67.9        | 68.2        | 79.7        |
| 322, 325 & 329             | Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.<br><i>Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.</i>                   | 79.2        | 78.0        | 73.3        | 68.6        | 72.0        | 74.0        | 75.1        | 83.2        |
| 323                        | Pembuatan barangan sukan<br><i>Manufacture of sports goods</i>                                                                                                                                                                                  | 76.0        | 76.6        | 75.3        | 74.0        | 73.5        | 71.5        | 74.8        | 89.8        |
| 324                        | Pembuatan permainan dan mainan<br><i>Manufacture of games and toys</i>                                                                                                                                                                          | 82.7        | 78.2        | 64.4        | 69.9        | 72.9        | 74.2        | 57.5        | 75.5        |
| 331 & 332                  | Pembaikan pemasangan produk logam, jentera dan kelengkapan serta pemasangan jentera perindustrian dan kelengkapan<br><i>Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment</i> | 72.9        | 77.4        | 81.3        | 76.6        | 70.4        | 70.5        | 70.8        | 78.9        |
| <b>Malaysia</b>            |                                                                                                                                                                                                                                                 | <b>80.1</b> | <b>80.2</b> | <b>79.2</b> | <b>79.1</b> | <b>77.8</b> | <b>69.8</b> | <b>73.9</b> | <b>80.4</b> |

**2b Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Suku Tahunan**  
*Manufacturing Industry Capacity Utilisation by Group - Quarterly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                   | 2017 |      |      |      | 2018 |      |      |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|
|                                   |                                                                                                                                                                                                                                                   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   |
| 101                               | Pemprosesan dan pengawetan daging<br><i>Processing and preserving of meat</i>                                                                                                                                                                     | 74.5 | 63.2 | 66.8 | 70.9 | 72.6 | 66.5 | 66.7 |
| 102                               | Pemprosesan dan pengawetan ikan, krustasea dan moluska<br><i>Processing and preserving of fish, crustaceans and molluscs</i>                                                                                                                      | 67.9 | 69.4 | 71.8 | 71.7 | 75.0 | 74.0 | 72.0 |
| 103                               | Pemprosesan dan pengawetan buah-buahan dan sayur-sayuran<br><i>Processing and preserving of fruits and vegetable</i>                                                                                                                              | 56.9 | 65.0 | 59.9 | 56.0 | 63.4 | 63.1 | 65.7 |
| 104                               | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                | 68.2 | 79.1 | 78.0 | 78.9 | 76.8 | 75.6 | 78.6 |
| 105                               | Pembuatan produk tenusu<br><i>Manufacture of dairy products</i>                                                                                                                                                                                   | 74.9 | 71.6 | 80.9 | 81.3 | 80.8 | 74.8 | 74.0 |
| 106                               | Pembuatan produk bijian, kanji dan produk berkanji<br><i>Manufacture of grain mill products, starches and starch products</i>                                                                                                                     | 67.1 | 64.7 | 66.5 | 66.4 | 61.0 | 61.3 | 60.5 |
| 107                               | Pembuatan produk makanan lain<br><i>Manufacture of other food products</i>                                                                                                                                                                        | 79.7 | 81.0 | 77.1 | 77.5 | 78.0 | 78.7 | 76.4 |
| 108                               | Pembuatan makanan haiwan tersedia<br><i>Manufacture of prepared animal feeds</i>                                                                                                                                                                  | 73.8 | 79.4 | 81.4 | 77.3 | 72.7 | 73.2 | 74.7 |
| 110                               | Pembuatan minuman ringan<br><i>Manufacture of beverages</i>                                                                                                                                                                                       | 64.6 | 69.2 | 72.6 | 62.7 | 63.9 | 73.0 | 77.0 |
| 120                               | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                               | 80.0 | 78.5 | 77.2 | 56.2 | 62.4 | 66.3 | 66.6 |
| 131                               | Pemintalan, penenunan dan penyiapan tekstil<br><i>Spinning, weaving and finishing of textiles</i>                                                                                                                                                 | 71.6 | 59.4 | 70.8 | 69.3 | 58.1 | 74.1 | 64.6 |
| 139                               | Pembuatan tekstil lain<br><i>Manufacture of other textiles</i>                                                                                                                                                                                    | 79.7 | 80.4 | 79.4 | 79.8 | 78.6 | 79.2 | 77.1 |
| 141                               | Pembuatan pakaian, kecuali pakaian berbulu<br><i>Manufacture of wearing apparel, except fur apparel</i>                                                                                                                                           | 84.0 | 82.0 | 86.2 | 88.4 | 87.2 | 87.3 | 87.2 |
| 142 & 143                         | Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye<br><i>Manufacture of articles of fur, knitted and crocheted apparel</i>                                                                                                | 60.6 | 72.3 | 71.1 | 70.4 | 86.5 | 85.8 | 85.9 |
| 151                               | Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu<br><i>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur</i> | 84.9 | 81.7 | 83.3 | 84.4 | 83.4 | 88.9 | 88.1 |
| 152                               | Pembuatan kasut<br><i>Manufacture of footwear</i>                                                                                                                                                                                                 | 82.6 | 81.0 | 76.4 | 74.7 | 76.8 | 77.1 | 77.0 |
| 161                               | Pengilangan dan pengetaman kayu<br><i>Sawmilling and planning of wood</i>                                                                                                                                                                         | 74.9 | 74.4 | 76.4 | 75.4 | 72.3 | 72.2 | 75.0 |
| 162                               | Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain<br><i>Manufacture of products of wood, cork, straw and plaiting materials</i>                                                                                                | 75.2 | 73.8 | 73.9 | 77.1 | 75.2 | 75.6 | 76.5 |
| 170                               | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                              | 77.7 | 78.1 | 78.1 | 78.8 | 81.2 | 80.7 | 81.2 |
| 181 & 182                         | Percetakan dan aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman<br><i>Printing and service activities related to printing &amp; reproduction of recorded media</i>                                                  | 75.8 | 78.1 | 78.1 | 76.2 | 76.0 | 78.1 | 77.9 |
| 192                               | Pembuatan produk produk petroleum bertapis<br><i>Manufacture of refined petroleum products</i>                                                                                                                                                    | 88.6 | 82.8 | 87.8 | 88.4 | 85.8 | 85.9 | 81.8 |
| 201                               | Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer<br><i>Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms</i>                      | 78.6 | 78.3 | 80.4 | 80.6 | 85.4 | 82.2 | 84.0 |
| 202 & 203                         | Pembuatan produk kimia lain dan serat buatan manusia<br><i>Manufacture of other chemical products and man-made fibres</i>                                                                                                                         | 74.3 | 79.9 | 80.9 | 80.8 | 81.1 | 78.1 | 74.0 |
| 210                               | Pembuatan produk farmaseutikal, kimia perubatan dan botani<br><i>Manufacture of pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                    | 69.3 | 71.2 | 72.5 | 76.5 | 74.8 | 72.9 | 76.0 |
| 221                               | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                   | 82.4 | 81.6 | 82.3 | 83.1 | 81.2 | 79.4 | 80.0 |
| 222                               | Pembuatan produk plastik<br><i>Manufacture of plastics products</i>                                                                                                                                                                               | 76.4 | 76.9 | 79.4 | 78.0 | 77.8 | 77.5 | 78.5 |

| 2019 |      |      |      | 2020 |      |      |      | 2021 |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   |
| 66.7 | 72.1 | 71.5 | 73.2 | 75.2 | 86.5 | 84.3 | 86.3 | 84.1 | 85.5 | 79.7 | 75.4 | 80.2 |
| 72.6 | 72.0 | 73.1 | 71.8 | 72.1 | 69.3 | 71.5 | 71.0 | 71.3 | 70.1 | 71.3 | 69.8 | 70.2 |
| 63.7 | 67.7 | 63.3 | 63.0 | 67.7 | 62.8 | 60.9 | 66.0 | 67.3 | 67.7 | 63.4 | 60.1 | 65.6 |
| 83.9 | 72.9 | 73.8 | 71.6 | 66.8 | 71.7 | 78.7 | 71.5 | 62.4 | 73.4 | 76.6 | 80.7 | 68.8 |
| 73.5 | 63.4 | 64.6 | 67.1 | 69.5 | 73.5 | 71.9 | 73.8 | 72.9 | 74.1 | 71.4 | 64.6 | 65.7 |
| 59.3 | 67.7 | 67.7 | 68.4 | 67.2 | 64.9 | 57.5 | 59.6 | 57.9 | 59.1 | 58.7 | 61.8 | 58.9 |
| 81.0 | 80.4 | 80.2 | 78.7 | 76.4 | 75.5 | 76.4 | 81.1 | 83.1 | 80.7 | 80.7 | 80.5 | 78.2 |
| 72.4 | 68.6 | 73.2 | 73.2 | 75.6 | 74.1 | 72.4 | 73.8 | 72.5 | 68.5 | 72.1 | 72.4 | 70.2 |
| 73.5 | 67.6 | 70.1 | 71.6 | 76.4 | 68.0 | 54.5 | 67.5 | 71.2 | 66.9 | 62.7 | 64.1 | 75.5 |
| 66.0 | 78.1 | 77.4 | 77.2 | 74.8 | 66.8 | 47.9 | 70.4 | 53.6 | 80.3 | 55.1 | 32.1 | 77.9 |
| 65.1 | 65.7 | 64.9 | 65.6 | 66.0 | 69.9 | 48.3 | 65.3 | 66.5 | 81.0 | 77.0 | 67.2 | 69.5 |
| 75.8 | 78.5 | 78.0 | 77.8 | 77.7 | 76.3 | 68.9 | 75.8 | 74.0 | 71.8 | 72.5 | 70.9 | 79.5 |
| 87.3 | 85.1 | 86.8 | 87.6 | 88.2 | 76.4 | 61.4 | 72.8 | 75.6 | 78.7 | 76.5 | 70.9 | 79.2 |
| 85.9 | 74.3 | 88.4 | 83.3 | 78.6 | 62.0 | 48.8 | 57.5 | 63.2 | 61.4 | 61.9 | 56.2 | 63.9 |
| 80.8 | 74.9 | 78.0 | 79.6 | 81.4 | 63.8 | 54.5 | 67.4 | 70.5 | 66.5 | 61.2 | 66.4 | 76.2 |
| 77.4 | 76.7 | 80.3 | 79.9 | 82.6 | 81.9 | 69.0 | 78.0 | 80.6 | 80.8 | 83.3 | 67.5 | 70.2 |
| 74.6 | 74.2 | 76.3 | 75.4 | 75.2 | 69.1 | 65.1 | 70.7 | 70.1 | 69.8 | 66.0 | 66.9 | 69.8 |
| 76.8 | 75.0 | 73.8 | 72.5 | 72.3 | 66.7 | 61.5 | 70.2 | 70.1 | 68.7 | 69.1 | 66.4 | 72.4 |
| 80.7 | 78.2 | 79.1 | 78.7 | 80.2 | 74.4 | 68.4 | 75.7 | 77.1 | 77.6 | 75.3 | 70.4 | 73.3 |
| 75.0 | 72.8 | 74.3 | 74.1 | 73.0 | 67.2 | 50.1 | 78.8 | 70.1 | 71.2 | 68.7 | 66.5 | 71.1 |
| 83.9 | 74.4 | 79.8 | 83.5 | 83.7 | 65.7 | 50.9 | 67.0 | 68.3 | 78.7 | 77.3 | 64.2 | 63.2 |
| 84.6 | 81.1 | 83.8 | 81.7 | 83.3 | 76.1 | 72.3 | 77.9 | 80.0 | 83.1 | 79.9 | 80.0 | 83.3 |
| 71.8 | 77.8 | 78.5 | 75.8 | 74.4 | 70.8 | 50.9 | 69.6 | 70.2 | 71.7 | 71.0 | 68.9 | 72.0 |
| 74.6 | 72.9 | 75.0 | 74.5 | 70.6 | 73.0 | 70.5 | 76.0 | 75.1 | 72.9 | 71.2 | 74.4 | 71.2 |
| 79.9 | 79.5 | 79.9 | 80.5 | 81.1 | 80.9 | 80.0 | 82.9 | 83.9 | 81.3 | 80.5 | 73.6 | 81.1 |
| 76.6 | 75.4 | 77.1 | 76.2 | 77.4 | 74.0 | 69.7 | 76.5 | 77.5 | 76.2 | 73.2 | 70.9 | 76.3 |

**2b Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Suku Tahunan**  
**Manufacturing Industry Capacity Utilisation by Group - Quarterly**

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                          | 2022 |      |      |      | 2023 |      |      |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|
|                            |                                                                                                                                                                                                                                                   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   |
| 101                        | Pemprosesan dan pengawetan daging<br><i>Processing and preserving of meat</i>                                                                                                                                                                     | 79.0 | 80.7 | 82.7 | 81.3 | 85.8 | 88.2 | 91.3 |
| 102                        | Pemprosesan dan pengawetan ikan, krustasea dan moluska<br><i>Processing and preserving of fish, crustaceans and molluscs</i>                                                                                                                      | 73.3 | 72.3 | 77.1 | 77.0 | 75.2 | 77.8 | 79.4 |
| 103                        | Pemprosesan dan pengawetan buah-buahan dan sayur-sayuran<br><i>Processing and preserving of fruits and vegetable</i>                                                                                                                              | 78.8 | 80.0 | 77.7 | 78.9 | 79.5 | 78.4 | 80.1 |
| 104                        | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                | 64.7 | 65.8 | 69.1 | 70.3 | 65.9 | 70.2 | 76.2 |
| 105                        | Pembuatan produk tenusu<br><i>Manufacture of dairy products</i>                                                                                                                                                                                   | 81.8 | 77.9 | 74.8 | 72.1 | 76.0 | 77.4 | 81.2 |
| 106                        | Pembuatan produk bijian, kanji dan produk berkanji<br><i>Manufacture of grain mill products, starches and starch products</i>                                                                                                                     | 66.3 | 64.5 | 73.4 | 76.0 | 75.3 | 70.2 | 74.9 |
| 107                        | Pembuatan produk makanan lain<br><i>Manufacture of other food products</i>                                                                                                                                                                        | 81.7 | 81.6 | 87.6 | 84.6 | 87.9 | 81.2 | 83.3 |
| 108                        | Pembuatan makanan haiwan tersedia<br><i>Manufacture of prepared animal feeds</i>                                                                                                                                                                  | 74.9 | 79.1 | 83.5 | 82.4 | 79.9 | 82.2 | 83.0 |
| 110                        | Pembuatan minuman ringan<br><i>Manufacture of beverages</i>                                                                                                                                                                                       | 83.2 | 80.5 | 81.8 | 80.7 | 77.9 | 80.3 | 80.3 |
| 120                        | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                               | 98.2 | 91.7 | 68.8 | 77.8 | 93.6 | 89.5 | 84.4 |
| 131                        | Pemintalan, penenunan dan penyiapan tekstil<br><i>Spinning, weaving and finishing of textiles</i>                                                                                                                                                 | 88.3 | 81.4 | 89.3 | 87.2 | 63.4 | 73.5 | 72.8 |
| 139                        | Pembuatan tekstil lain<br><i>Manufacture of other textiles</i>                                                                                                                                                                                    | 82.3 | 87.0 | 84.0 | 77.9 | 87.5 | 87.2 | 86.2 |
| 141                        | Pembuatan pakaian, kecuali pakaian berbulu<br><i>Manufacture of wearing apparel, except fur apparel</i>                                                                                                                                           | 73.2 | 78.4 | 74.2 | 70.4 | 77.9 | 81.8 | 82.4 |
| 142 & 143                  | Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye<br><i>Manufacture of articles of fur, knitted and crocheted apparel</i>                                                                                                | 66.6 | 75.1 | 74.6 | 74.1 | 77.8 | 68.5 | 77.9 |
| 151                        | Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu<br><i>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur</i> | 87.9 | 82.7 | 93.6 | 94.6 | 95.0 | 80.6 | 79.0 |
| 152                        | Pembuatan kasut<br><i>Manufacture of footwear</i>                                                                                                                                                                                                 | 87.5 | 90.9 | 91.4 | 91.0 | 78.9 | 85.9 | 80.5 |
| 161                        | Pengilangan dan pengetaman kayu<br><i>Sawmilling and planning of wood</i>                                                                                                                                                                         | 74.2 | 78.8 | 78.9 | 77.4 | 75.1 | 78.2 | 76.2 |
| 162                        | Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain<br><i>Manufacture of products of wood, cork, straw and plaiting materials</i>                                                                                                | 72.1 | 71.7 | 71.7 | 68.5 | 66.1 | 66.5 | 70.6 |
| 170                        | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                              | 82.7 | 79.3 | 78.4 | 76.6 | 77.3 | 76.6 | 77.5 |
| 181 & 182                  | Percetakan dan aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman<br><i>Printing and service activities related to printing &amp; reproduction of recorded media</i>                                                  | 72.2 | 77.4 | 77.1 | 79.4 | 79.4 | 83.3 | 83.4 |
| 192                        | Pembuatan produk produk petroleum bertapis<br><i>Manufacture of refined petroleum products</i>                                                                                                                                                    | 84.4 | 74.7 | 81.6 | 85.7 | 82.2 | 73.4 | 74.1 |
| 201                        | Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer<br><i>Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms</i>                      | 81.0 | 80.0 | 79.4 | 80.3 | 80.4 | 82.6 | 82.6 |
| 202 & 203                  | Pembuatan produk kimia lain dan serat buatan manusia<br><i>Manufacture of other chemical products and man-made fibres</i>                                                                                                                         | 78.2 | 74.7 | 72.4 | 69.5 | 70.2 | 71.9 | 79.6 |
| 210                        | Pembuatan produk farmaseutikal, kimia perubatan dan botani<br><i>Manufacture of pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                    | 76.7 | 79.8 | 86.4 | 77.0 | 82.8 | 81.0 | 83.5 |
| 221                        | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                   | 82.1 | 81.4 | 77.6 | 76.5 | 77.5 | 77.8 | 77.6 |
| 222                        | Pembuatan produk plastik<br><i>Manufacture of plastics products</i>                                                                                                                                                                               | 80.0 | 79.7 | 81.4 | 80.7 | 80.4 | 78.7 | 79.3 |

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                                                                                                  | 2017 |      |      |      | 2018 |      |      |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|
|                            |                                                                                                                                                                                                                                                                                                                           | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   |
| 231                        | Pembuatan kaca dan produk kaca<br><i>Manufacture of glass and glass products</i>                                                                                                                                                                                                                                          | 81.4 | 80.8 | 81.6 | 81.6 | 80.9 | 79.2 | 77.3 |
| 239                        | Pembuatan pengeluaran galian bukan logam t.t.t.l.<br><i>Manufacture of non-metallic mineral products n.e.c.</i>                                                                                                                                                                                                           | 72.4 | 70.3 | 69.8 | 71.9 | 71.6 | 71.4 | 73.3 |
| 241                        | Pembuatan besi dan keluli asas<br><i>Manufacture of basic iron and steel</i>                                                                                                                                                                                                                                              | 77.2 | 71.3 | 79.2 | 78.8 | 79.9 | 78.0 | 79.2 |
| 242                        | Pembuatan logam asas berharga dan logam bukan ferus lain<br><i>Manufacture of basic precious and other non-ferrous metals</i>                                                                                                                                                                                             | 81.1 | 81.7 | 79.6 | 80.1 | 74.3 | 74.8 | 75.0 |
| 243                        | Pengacuan logam<br><i>Casting of metals</i>                                                                                                                                                                                                                                                                               | 72.5 | 74.1 | 72.3 | 73.2 | 70.0 | 72.7 | 76.7 |
| 251 & 252                  | Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru<br><i>Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition</i>                                                                                                                        | 75.9 | 77.1 | 77.5 | 78.1 | 78.3 | 78.3 | 76.8 |
| 259                        | Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam<br><i>Manufacture of other fabricated metal products; metal working service activities</i>                                                                                                                                       | 74.0 | 72.8 | 72.4 | 74.8 | 77.3 | 76.8 | 78.2 |
| 261                        | Pembuatan komponen dan papan elektronik<br><i>Manufacture of electronic components and boards</i>                                                                                                                                                                                                                         | 85.4 | 84.4 | 86.2 | 86.5 | 85.2 | 84.9 | 84.5 |
| 262                        | Pembuatan komputer dan kelengkapan peranti<br><i>Manufacture of computers and peripheral equipment</i>                                                                                                                                                                                                                    | 64.7 | 65.0 | 69.3 | 70.7 | 70.0 | 71.3 | 68.0 |
| 263                        | Pembuatan peralatan komunikasi<br><i>Manufacture of communication equipment</i>                                                                                                                                                                                                                                           | 78.9 | 59.6 | 69.6 | 76.0 | 79.2 | 77.9 | 79.3 |
| 264                        | Pembuatan peralatan elektronik pengguna<br><i>Manufacture of consumer electronics</i>                                                                                                                                                                                                                                     | 74.0 | 81.3 | 88.2 | 76.2 | 69.5 | 70.2 | 83.0 |
| 265                        | Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam<br><i>Manufacture of measuring, testing, navigating and control equipment; watches and clocks</i>                                                                                                                                   | 67.9 | 67.6 | 75.0 | 68.9 | 70.8 | 65.4 | 74.7 |
| 266                        | Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik<br><i>Manufacture of irradiation, electromedical and electrotherapeutic equipment</i>                                                                                                                                                             | 80.3 | 76.7 | 86.7 | 94.1 | 58.8 | 55.7 | 51.2 |
| 267 & 268                  | Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal<br><i>Manufacture of optical instruments, photographic equipment, magnetic and optical media</i>                                                                                                                                           | 85.2 | 88.2 | 83.5 | 88.6 | 89.1 | 81.0 | 73.3 |
| 271                        | Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik<br><i>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus</i>                                                                                                    | 78.3 | 76.9 | 76.3 | 76.6 | 77.3 | 77.2 | 78.4 |
| 272                        | Pembuatan bateri dan akumulator<br><i>Manufacture of batteries and accumulators</i>                                                                                                                                                                                                                                       | 90.7 | 94.5 | 94.7 | 93.1 | 83.5 | 84.0 | 82.8 |
| 273                        | Pembuatan pendawaian dan peranti pendawaian<br><i>Manufacture of wiring and wiring devices</i>                                                                                                                                                                                                                            | 82.5 | 78.8 | 78.1 | 76.0 | 78.1 | 76.8 | 74.7 |
| 274                        | Pembuatan kelengkapan pencahayaan elektrik<br><i>Manufacture of electric lighting equipment</i>                                                                                                                                                                                                                           | 64.3 | 62.5 | 70.5 | 69.1 | 68.6 | 72.3 | 68.7 |
| 275                        | Pembuatan perkakasan domestik<br><i>Manufacture of domestic appliances</i>                                                                                                                                                                                                                                                | 70.6 | 79.7 | 88.8 | 86.7 | 87.7 | 92.8 | 82.9 |
| 279                        | Pembuatan kelengkapan elektrik lain<br><i>Manufacture of other electrical equipment</i>                                                                                                                                                                                                                                   | 85.9 | 85.5 | 88.7 | 87.9 | 87.5 | 87.0 | 87.8 |
| 281 & 282                  | Pembuatan jentera kegunaan umum dan kegunaan khas<br><i>Manufacture of general-purpose and special-purpose machinery</i>                                                                                                                                                                                                  | 77.9 | 76.5 | 74.9 | 75.6 | 78.9 | 76.4 | 75.9 |
| 291                        | Pembuatan kenderaan bermotor<br><i>Manufacture of motor vehicles</i>                                                                                                                                                                                                                                                      | 66.7 | 68.9 | 63.9 | 69.0 | 76.5 | 82.3 | 73.3 |
| 292                        | Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler<br><i>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers</i>                                                                                                                       | 75.7 | 77.3 | 77.5 | 78.2 | 76.8 | 76.1 | 75.8 |
| 293                        | Pembuatan alat ganti dan aksesori untuk kenderaan bermotor<br><i>Manufacture of parts and accessories for motor vehicles</i>                                                                                                                                                                                              | 74.7 | 73.2 | 75.9 | 77.1 | 79.9 | 78.4 | 76.7 |
| 301                        | Pembinaan kapal dan bot<br><i>Building of ships and boats</i>                                                                                                                                                                                                                                                             | 81.8 | 73.3 | 75.6 | 75.5 | 67.6 | 74.5 | 67.8 |
| 302, 303, 304 & 309        | Pembuatan lokomotif keretapi, rolling stock, kapal angkasa dan udara, jentera berkaitan, kenderaan tempur ketenteraan dan kelengkapan pengangkutan t.t.t.l.<br><i>Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c.</i> | 78.2 | 75.6 | 78.1 | 79.8 | 79.6 | 71.1 | 76.2 |

**2b Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Suku Tahunan**  
**Manufacturing Industry Capacity Utilisation by Group - Quarterly**

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                                                                                                  | 2018 | 2019 |      |      |      | 2020 |      |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|
|                            |                                                                                                                                                                                                                                                                                                                           | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   |
| 231                        | Pembuatan kaca dan produk kaca<br><i>Manufacture of glass and glass products</i>                                                                                                                                                                                                                                          | 78.7 | 77.7 | 75.2 | 73.2 | 73.1 | 73.1 | 66.2 |
| 239                        | Pembuatan pengeluaran galian bukan logam t.t.t.l.<br><i>Manufacture of non-metallic mineral products n.e.c.</i>                                                                                                                                                                                                           | 71.1 | 70.9 | 71.1 | 71.8 | 72.9 | 63.1 | 51.3 |
| 241                        | Pembuatan besi dan keluli asas<br><i>Manufacture of basic iron and steel</i>                                                                                                                                                                                                                                              | 75.2 | 71.3 | 74.9 | 78.0 | 75.9 | 66.9 | 56.3 |
| 242                        | Pembuatan logam asas berharga dan logam bukan ferus lain<br><i>Manufacture of basic precious and other non-ferrous metals</i>                                                                                                                                                                                             | 79.7 | 76.3 | 76.7 | 76.8 | 77.8 | 72.5 | 67.2 |
| 243                        | Pengacuan logam<br><i>Casting of metals</i>                                                                                                                                                                                                                                                                               | 76.7 | 76.1 | 76.2 | 75.5 | 74.6 | 70.3 | 60.2 |
| 251 & 252                  | Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru<br><i>Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition</i>                                                                                                                        | 77.2 | 77.7 | 76.6 | 77.0 | 77.3 | 71.4 | 62.4 |
| 259                        | Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam<br><i>Manufacture of other fabricated metal products; metal working service activities</i>                                                                                                                                       | 78.9 | 76.6 | 77.2 | 76.2 | 76.0 | 71.8 | 62.3 |
| 261                        | Pembuatan komponen dan papan elektronik<br><i>Manufacture of electronic components and boards</i>                                                                                                                                                                                                                         | 82.6 | 81.6 | 80.8 | 81.9 | 82.2 | 76.4 | 66.5 |
| 262                        | Pembuatan komputer dan kelengkapan peranti<br><i>Manufacture of computers and peripheral equipment</i>                                                                                                                                                                                                                    | 64.7 | 58.2 | 59.0 | 67.5 | 68.8 | 63.2 | 58.4 |
| 263                        | Pembuatan peralatan komunikasi<br><i>Manufacture of communication equipment</i>                                                                                                                                                                                                                                           | 75.5 | 78.0 | 68.1 | 76.2 | 75.3 | 73.1 | 64.2 |
| 264                        | Pembuatan peralatan elektronik pengguna<br><i>Manufacture of consumer electronics</i>                                                                                                                                                                                                                                     | 70.4 | 69.6 | 84.1 | 83.5 | 73.0 | 63.6 | 47.0 |
| 265                        | Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam<br><i>Manufacture of measuring, testing, navigating and control equipment; watches and clocks</i>                                                                                                                                   | 68.4 | 70.4 | 70.5 | 67.3 | 66.8 | 62.8 | 53.3 |
| 266                        | Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik<br><i>Manufacture of irradiation, electromedical and electrotherapeutic equipment</i>                                                                                                                                                             | 52.9 | 56.8 | 58.8 | 63.8 | 63.0 | 74.1 | 58.2 |
| 267 & 268                  | Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal<br><i>Manufacture of optical instruments, photographic equipment, magnetic and optical media</i>                                                                                                                                           | 64.7 | 60.8 | 64.9 | 70.7 | 66.0 | 60.4 | 62.1 |
| 271                        | Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik<br><i>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus</i>                                                                                                    | 75.8 | 78.1 | 79.4 | 78.2 | 79.8 | 72.6 | 70.3 |
| 272                        | Pembuatan bateri dan akumulator<br><i>Manufacture of batteries and accumulators</i>                                                                                                                                                                                                                                       | 89.5 | 90.9 | 89.5 | 80.7 | 75.5 | 62.6 | 47.5 |
| 273                        | Pembuatan pendawaian dan peranti pendawaian<br><i>Manufacture of wiring and wiring devices</i>                                                                                                                                                                                                                            | 74.8 | 76.7 | 75.9 | 75.7 | 75.3 | 71.2 | 61.5 |
| 274                        | Pembuatan kelengkapan pencahayaan elektrik<br><i>Manufacture of electric lighting equipment</i>                                                                                                                                                                                                                           | 64.3 | 63.5 | 68.0 | 67.5 | 69.9 | 56.9 | 56.7 |
| 275                        | Pembuatan perkakasan domestik<br><i>Manufacture of domestic appliances</i>                                                                                                                                                                                                                                                | 84.6 | 86.8 | 78.6 | 83.8 | 88.8 | 75.5 | 54.2 |
| 279                        | Pembuatan kelengkapan elektrik lain<br><i>Manufacture of other electrical equipment</i>                                                                                                                                                                                                                                   | 88.0 | 83.4 | 85.7 | 88.0 | 87.9 | 85.9 | 82.2 |
| 281 & 282                  | Pembuatan jentera kegunaan umum dan kegunaan khas<br><i>Manufacture of general-purpose and special-purpose machinery</i>                                                                                                                                                                                                  | 74.6 | 74.9 | 75.8 | 75.1 | 76.8 | 71.0 | 65.1 |
| 291                        | Pembuatan kenderaan bermotor<br><i>Manufacture of motor vehicles</i>                                                                                                                                                                                                                                                      | 79.3 | 80.3 | 74.1 | 78.8 | 79.7 | 67.0 | 41.5 |
| 292                        | Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler<br><i>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers</i>                                                                                                                       | 72.8 | 75.2 | 80.0 | 77.4 | 77.1 | 73.5 | 58.1 |
| 293                        | Pembuatan alat ganti dan aksesori untuk kenderaan bermotor<br><i>Manufacture of parts and accessories for motor vehicles</i>                                                                                                                                                                                              | 77.2 | 80.2 | 82.5 | 78.1 | 79.1 | 71.1 | 52.7 |
| 301                        | Pembinaan kapal dan bot<br><i>Building of ships and boats</i>                                                                                                                                                                                                                                                             | 73.0 | 74.1 | 79.1 | 76.3 | 70.5 | 75.7 | 51.3 |
| 302, 303, 304 & 309        | Pembuatan lokomotif keretapi, rolling stock, kapal angkasa dan udara, jentera berkaitan, kenderaan tempur ketenteraan dan kelengkapan pengangkutan t.t.t.l.<br><i>Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c.</i> | 79.4 | 83.0 | 80.4 | 80.5 | 80.5 | 81.1 | 67.5 |

|      |      | 2021 |      |      |      | 2022 |      |      |      | 2023 |      |      |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   |  |
| 71.2 | 69.7 | 71.0 | 73.0 | 72.7 | 79.0 | 85.7 | 87.1 | 87.5 | 80.1 | 60.8 | 74.1 | 81.4 |  |
| 68.7 | 69.7 | 71.4 | 64.9 | 62.4 | 69.8 | 77.9 | 79.6 | 81.0 | 79.0 | 79.8 | 81.3 | 83.7 |  |
| 67.6 | 69.7 | 69.2 | 59.5 | 61.4 | 67.5 | 76.2 | 75.3 | 77.9 | 77.9 | 79.1 | 79.1 | 80.4 |  |
| 75.5 | 76.7 | 78.3 | 76.3 | 70.9 | 82.1 | 81.5 | 78.1 | 80.0 | 72.1 | 76.9 | 74.4 | 77.2 |  |
| 71.7 | 71.3 | 65.9 | 61.2 | 60.3 | 72.9 | 78.6 | 78.9 | 76.8 | 72.9 | 80.4 | 75.2 | 73.6 |  |
| 72.2 | 72.1 | 77.3 | 75.2 | 75.3 | 78.1 | 81.0 | 75.8 | 76.9 | 78.4 | 92.4 | 89.9 | 85.3 |  |
| 74.2 | 74.7 | 76.0 | 69.3 | 63.7 | 71.1 | 79.7 | 77.4 | 77.0 | 78.9 | 78.1 | 76.7 | 79.5 |  |
| 77.8 | 81.4 | 82.0 | 81.3 | 79.0 | 82.6 | 86.3 | 82.6 | 86.7 | 84.4 | 82.1 | 82.1 | 81.2 |  |
| 59.6 | 56.8 | 63.1 | 67.3 | 62.9 | 61.3 | 69.4 | 69.7 | 76.3 | 66.0 | 60.8 | 56.6 | 59.0 |  |
| 79.6 | 80.4 | 80.8 | 79.7 | 76.7 | 75.5 | 78.4 | 77.9 | 75.6 | 78.8 | 80.5 | 80.6 | 84.5 |  |
| 71.2 | 67.8 | 66.8 | 76.3 | 74.7 | 84.1 | 70.3 | 74.6 | 69.7 | 70.8 | 78.8 | 83.5 | 83.1 |  |
| 66.9 | 70.7 | 69.9 | 69.6 | 65.0 | 66.0 | 75.7 | 80.5 | 85.7 | 83.6 | 78.2 | 75.5 | 80.6 |  |
| 69.0 | 72.9 | 66.2 | 66.7 | 67.0 | 72.9 | 81.3 | 81.6 | 80.7 | 83.3 | 86.3 | 91.3 | 90.4 |  |
| 83.7 | 74.0 | 70.3 | 64.9 | 57.3 | 81.9 | 82.5 | 78.9 | 88.8 | 87.1 | 86.8 | 84.0 | 86.7 |  |
| 79.0 | 77.1 | 76.2 | 76.5 | 73.6 | 84.2 | 82.2 | 80.9 | 84.5 | 84.1 | 84.3 | 79.4 | 80.1 |  |
| 74.3 | 73.2 | 77.9 | 87.6 | 81.6 | 82.7 | 76.9 | 88.0 | 81.3 | 77.9 | 67.0 | 80.5 | 81.4 |  |
| 72.1 | 70.2 | 72.1 | 71.3 | 70.4 | 77.6 | 80.3 | 81.4 | 81.3 | 77.9 | 83.2 | 81.4 | 82.6 |  |
| 67.7 | 68.6 | 68.9 | 61.8 | 63.2 | 74.0 | 77.6 | 74.0 | 79.0 | 77.8 | 76.7 | 81.2 | 86.3 |  |
| 74.0 | 72.3 | 76.9 | 74.8 | 68.4 | 81.6 | 83.4 | 73.4 | 90.7 | 90.0 | 85.6 | 79.0 | 90.8 |  |
| 85.2 | 85.5 | 89.1 | 88.9 | 86.0 | 87.7 | 89.9 | 87.4 | 90.8 | 85.7 | 71.2 | 66.3 | 68.4 |  |
| 73.1 | 78.4 | 76.3 | 71.3 | 70.4 | 78.4 | 81.6 | 82.3 | 83.6 | 80.1 | 79.2 | 84.1 | 84.3 |  |
| 69.6 | 70.6 | 76.9 | 55.6 | 42.0 | 76.8 | 82.7 | 77.4 | 84.6 | 75.9 | 87.3 | 83.5 | 83.8 |  |
| 71.3 | 78.9 | 59.7 | 60.2 | 63.7 | 73.6 | 61.7 | 83.8 | 79.3 | 82.8 | 67.5 | 67.5 | 80.9 |  |
| 73.9 | 75.7 | 80.1 | 77.3 | 72.7 | 79.7 | 83.8 | 87.9 | 89.4 | 89.3 | 85.5 | 81.2 | 79.8 |  |
| 61.6 | 64.8 | 62.8 | 68.3 | 74.9 | 68.8 | 75.8 | 75.6 | 74.3 | 73.8 | 68.3 | 69.1 | 64.6 |  |
| 78.2 | 85.6 | 84.1 | 78.6 | 55.5 | 70.5 | 81.2 | 84.6 | 86.0 | 86.3 | 87.1 | 82.0 | 90.0 |  |

**2b Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Suku Tahunan**  
*Manufacturing Industry Capacity Utilisation by Group - Quarterly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                 | 2017        |             |             |             | 2018        |             |             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                   |                                                                                                                                                                                                                                                 | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          |
| 310                               | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 82.1        | 80.3        | 81.3        | 82.2        | 79.9        | 80.2        | 79.7        |
| 321                               | Pembuatan barang kemas, bijouterie dan artikel berkaitan<br><i>Manufacture of jewellery, bijouterie and related articles</i>                                                                                                                    | 76.2        | 76.6        | 79.0        | 72.8        | 77.0        | 76.0        | 71.9        |
| 322, 325 & 329                    | Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.<br><i>Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.</i>                   | 74.0        | 73.5        | 73.3        | 72.3        | 67.3        | 67.7        | 69.2        |
| 323                               | Pembuatan barangan sukan<br><i>Manufacture of sports goods</i>                                                                                                                                                                                  | 70.8        | 76.8        | 78.0        | 75.6        | 72.8        | 74.9        | 73.1        |
| 324                               | Pembuatan permainan dan mainan<br><i>Manufacture of games and toys</i>                                                                                                                                                                          | 69.6        | 66.3        | 61.6        | 60.3        | 58.9        | 68.3        | 74.5        |
| 331 & 332                         | Pembaikan pemasangan produk logam, jentera dan kelengkapan serta pemasangan jentera perindustrian dan kelengkapan<br><i>Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment</i> | 80.4        | 80.5        | 83.1        | 81.2        | 81.8        | 73.6        | 76.2        |
| <b>Malaysia</b>                   |                                                                                                                                                                                                                                                 | <b>79.1</b> | <b>77.7</b> | <b>80.1</b> | <b>80.0</b> | <b>79.7</b> | <b>79.4</b> | <b>79.1</b> |

| 2019 |      |      |      | 2020 |      |      |      | 2021 |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   |
| 80.2 | 80.1 | 78.3 | 79.6 | 81.6 | 75.9 | 51.2 | 72.8 | 75.5 | 74.0 | 67.6 | 63.7 | 75.7 |
| 77.3 | 73.5 | 78.1 | 75.3 | 79.6 | 66.6 | 54.0 | 74.5 | 76.4 | 72.0 | 71.9 | 61.3 | 67.6 |
| 70.1 | 71.1 | 73.0 | 74.6 | 69.4 | 74.7 | 65.2 | 79.8 | 76.1 | 76.5 | 72.4 | 72.8 | 78.6 |
| 75.2 | 74.7 | 73.8 | 72.5 | 72.9 | 71.2 | 63.5 | 75.3 | 75.8 | 76.7 | 76.0 | 70.7 | 75.7 |
| 78.0 | 69.8 | 75.8 | 79.3 | 66.8 | 71.3 | 69.0 | 85.0 | 71.5 | 64.3 | 49.1 | 49.7 | 67.0 |
| 74.8 | 68.9 | 69.3 | 71.1 | 72.4 | 70.5 | 66.1 | 73.3 | 72.3 | 73.7 | 70.1 | 66.9 | 72.5 |
| 78.3 | 76.1 | 77.7 | 78.8 | 78.7 | 71.2 | 60.8 | 73.0 | 74.1 | 76.7 | 74.3 | 69.6 | 75.1 |

**2b Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Suku Tahunan**  
*Manufacturing Industry Capacity Utilisation by Group - Quarterly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                 | 2022        |             |             |             | 2023        |             |             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                   |                                                                                                                                                                                                                                                 | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          |
| 310                               | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 83.1        | 83.9        | 85.1        | 83.0        | 80.3        | 79.3        | 78.3        |
| 321                               | Pembuatan barang kemas, bijouterie dan artikel berkaitan<br><i>Manufacture of jewellery, bijouterie and related articles</i>                                                                                                                    | 76.6        | 77.5        | 81.8        | 83.1        | 86.3        | 86.5        | 83.2        |
| 322, 325 & 329                    | Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.<br><i>Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.</i>                   | 83.7        | 84.1        | 83.4        | 81.4        | 86.0        | 81.0        | 82.1        |
| 323                               | Pembuatan barangan sukan<br><i>Manufacture of sports goods</i>                                                                                                                                                                                  | 91.9        | 94.9        | 88.0        | 84.6        | 98.5        | 87.5        | 90.1        |
| 324                               | Pembuatan permainan dan mainan<br><i>Manufacture of games and toys</i>                                                                                                                                                                          | 75.7        | 76.6        | 80.3        | 69.6        | 77.6        | 76.4        | 71.0        |
| 331 & 332                         | Pembaikan pemasangan produk logam, jentera dan kelengkapan serta pemasangan jentera perindustrian dan kelengkapan<br><i>Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment</i> | 83.1        | 80.3        | 79.2        | 73.0        | 83.7        | 75.1        | 82.3        |
| <b>Malaysia</b>                   |                                                                                                                                                                                                                                                 | <b>81.1</b> | <b>79.0</b> | <b>81.3</b> | <b>80.2</b> | <b>79.8</b> | <b>78.2</b> | <b>79.4</b> |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                   | 2017 |      |      |      |      |      |      |      |      |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|--|
|                            |                                                                                                                                                                                                                                            | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |  |
| 101                        | Pemprosesan dan pengawetan daging<br>Processing and preserving of meat                                                                                                                                                                     | 78.7 | 79.8 | 65.1 | 65.2 | 64.9 | 59.4 | 62.1 | 69.8 | 68.6 |  |
| 102                        | Pemprosesan dan pengawetan ikan, krustasea dan moluska<br>Processing and preserving of fish, crustaceans and molluscs                                                                                                                      | 71.1 | 67.0 | 65.5 | 66.9 | 69.9 | 71.5 | 72.7 | 74.4 | 68.3 |  |
| 103                        | Pemprosesan dan pengawetan buah-buahan dan sayur-sayuran<br>Processing and preserving of fruits and vegetable                                                                                                                              | 54.4 | 57.0 | 59.2 | 60.9 | 69.2 | 65.0 | 65.2 | 57.4 | 56.9 |  |
| 104                        | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br>Manufacture of vegetable and animal oils and fats                                                                                                                                | 65.7 | 66.9 | 72.1 | 81.5 | 79.5 | 76.1 | 77.7 | 77.8 | 78.6 |  |
| 105                        | Pembuatan produk tenusu<br>Manufacture of dairy products                                                                                                                                                                                   | 75.2 | 74.8 | 74.6 | 71.1 | 73.1 | 70.5 | 80.5 | 81.6 | 80.4 |  |
| 106                        | Pembuatan produk bijian, kanji dan produk berkanji<br>Manufacture of grain mill products, starches and starch products                                                                                                                     | 67.9 | 67.0 | 66.5 | 65.6 | 65.3 | 63.1 | 67.4 | 68.7 | 63.5 |  |
| 107                        | Pembuatan produk makanan lain<br>Manufacture of other food products                                                                                                                                                                        | 79.7 | 80.6 | 78.8 | 82.1 | 81.6 | 79.2 | 76.5 | 76.7 | 78.2 |  |
| 108                        | Pembuatan makanan haiwan tersedia<br>Manufacture of prepared animal feeds                                                                                                                                                                  | 75.7 | 67.7 | 78.1 | 78.8 | 77.6 | 81.9 | 80.1 | 83.6 | 80.4 |  |
| 110                        | Pembuatan minuman ringan<br>Manufacture of beverages                                                                                                                                                                                       | 69.6 | 61.4 | 62.7 | 64.1 | 74.8 | 68.6 | 76.0 | 72.5 | 69.2 |  |
| 120                        | Pembuatan produk tembakau<br>Manufacture of tobacco products                                                                                                                                                                               | 70.9 | 84.5 | 84.6 | 84.3 | 75.7 | 75.6 | 80.1 | 71.0 | 80.5 |  |
| 131                        | Pemintalan, penenunan dan penyiapan tekstil<br>Spinning, weaving and finishing of textiles                                                                                                                                                 | 67.7 | 71.4 | 75.7 | 62.9 | 59.9 | 55.3 | 59.2 | 73.4 | 79.8 |  |
| 139                        | Pembuatan tekstil lain<br>Manufacture of other textiles                                                                                                                                                                                    | 79.0 | 79.6 | 80.4 | 80.3 | 80.7 | 80.2 | 79.9 | 79.7 | 78.5 |  |
| 141                        | Pembuatan pakaian, kecuali pakaian berbulu<br>Manufacture of wearing apparel, except fur apparel                                                                                                                                           | 85.6 | 80.7 | 85.7 | 85.5 | 84.6 | 75.9 | 85.9 | 86.3 | 86.3 |  |
| 142 & 143                  | Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye<br>Manufacture of articles of fur, knitted and crocheted apparel                                                                                                | 62.6 | 53.8 | 65.4 | 71.8 | 71.6 | 73.6 | 63.7 | 78.7 | 71.0 |  |
| 151                        | Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu<br>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur | 84.5 | 82.6 | 87.6 | 85.1 | 81.0 | 79.0 | 82.6 | 86.7 | 80.6 |  |
| 152                        | Pembuatan kasut<br>Manufacture of footwear                                                                                                                                                                                                 | 83.4 | 82.0 | 82.4 | 80.6 | 80.7 | 81.7 | 77.4 | 76.8 | 75.1 |  |
| 161                        | Pengilangan dan pengetaman kayu<br>Sawmilling and planing of wood                                                                                                                                                                          | 75.5 | 74.7 | 74.6 | 76.6 | 76.3 | 70.4 | 76.8 | 77.4 | 75.1 |  |
| 162                        | Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain<br>Manufacture of products of wood, cork, straw and plaiting materials                                                                                                | 76.1 | 73.7 | 75.7 | 74.7 | 75.3 | 71.3 | 74.2 | 74.2 | 73.2 |  |
| 170                        | Pembuatan kertas dan produk kertas<br>Manufacture of paper and paper products                                                                                                                                                              | 77.6 | 77.1 | 78.3 | 79.1 | 80.3 | 74.9 | 80.1 | 77.0 | 77.2 |  |
| 181 & 182                  | Percetakan dan aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman<br>Printing and service activities related to printing & reproduction of recorded media                                                      | 75.9 | 75.8 | 75.8 | 79.8 | 76.4 | 78.0 | 77.8 | 79.8 | 76.7 |  |
| 192                        | Pembuatan produk produk petroleum bertapis<br>Manufacture of refined petroleum products                                                                                                                                                    | 90.0 | 89.4 | 86.2 | 76.1 | 81.8 | 90.7 | 90.8 | 88.3 | 84.4 |  |
| 201                        | Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer<br>Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms                      | 79.9 | 77.8 | 78.0 | 76.1 | 75.5 | 83.2 | 79.6 | 79.1 | 82.7 |  |
| 202 & 203                  | Pembuatan produk kimia lain dan serat buatan manusia<br>Manufacture of other chemical products and man-made fibres                                                                                                                         | 70.7 | 70.1 | 82.1 | 81.1 | 78.8 | 79.8 | 81.1 | 81.3 | 80.3 |  |
| 210                        | Pembuatan produk farmaseutikal, kimia perubatan dan botani<br>Manufacture of pharmaceuticals, medicinal chemical and botanical products                                                                                                    | 72.9 | 64.3 | 70.6 | 74.2 | 69.0 | 70.4 | 72.0 | 73.4 | 72.2 |  |
| 221                        | Pembuatan produk getah<br>Manufacture of rubber products                                                                                                                                                                                   | 82.1 | 82.1 | 82.9 | 82.3 | 80.9 | 81.5 | 82.6 | 82.4 | 81.9 |  |
| 222                        | Pembuatan produk plastik<br>Manufacture of plastics products                                                                                                                                                                               | 75.7 | 75.9 | 77.5 | 76.6 | 76.6 | 77.3 | 78.9 | 80.2 | 79.2 |  |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                          | 2017 |      |      | 2018 |      |      |      |      |      |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
|                            |                                                                                                                                                                                                                                                   | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  |
| 101                        | Pemprosesan dan pengawetan daging<br><i>Processing and preserving of meat</i>                                                                                                                                                                     | 68.2 | 73.2 | 71.3 | 81.0 | 67.9 | 68.8 | 66.5 | 66.6 | 66.2 |
| 102                        | Pemprosesan dan pengawetan ikan, krustasea dan moluska<br><i>Processing and preserving of fish, crustaceans and molluscs</i>                                                                                                                      | 72.0 | 72.1 | 70.9 | 75.6 | 73.1 | 76.2 | 74.8 | 74.6 | 72.7 |
| 103                        | Pemprosesan dan pengawetan buah-buahan dan sayur-sayuran<br><i>Processing and preserving of fruits and vegetable</i>                                                                                                                              | 55.5 | 56.2 | 56.2 | 68.6 | 61.5 | 60.1 | 60.9 | 64.4 | 64.2 |
| 104                        | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                | 81.8 | 75.3 | 79.4 | 80.6 | 69.5 | 80.3 | 81.0 | 76.0 | 69.7 |
| 105                        | Pembuatan produk tenusu<br><i>Manufacture of dairy products</i>                                                                                                                                                                                   | 80.1 | 80.3 | 83.3 | 78.8 | 82.3 | 81.5 | 80.6 | 79.5 | 64.2 |
| 106                        | Pembuatan produk bijian, kanji dan produk berkanji<br><i>Manufacture of grain mill products, starches and starch products</i>                                                                                                                     | 67.3 | 66.3 | 65.5 | 62.6 | 59.5 | 60.9 | 61.6 | 61.3 | 60.9 |
| 107                        | Pembuatan produk makanan lain<br><i>Manufacture of other food products</i>                                                                                                                                                                        | 80.3 | 76.8 | 75.4 | 77.3 | 74.1 | 82.5 | 82.5 | 76.0 | 77.7 |
| 108                        | Pembuatan makanan haiwan tersedia<br><i>Manufacture of prepared animal feeds</i>                                                                                                                                                                  | 77.0 | 76.9 | 78.0 | 72.6 | 69.8 | 75.6 | 74.8 | 73.7 | 71.1 |
| 110                        | Pembuatan minuman ringan<br><i>Manufacture of beverages</i>                                                                                                                                                                                       | 60.9 | 65.1 | 62.2 | 68.0 | 56.0 | 67.8 | 76.1 | 75.2 | 67.7 |
| 120                        | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                               | 53.6 | 53.0 | 62.1 | 56.1 | 67.2 | 63.8 | 65.6 | 66.4 | 66.7 |
| 131                        | Pemintalan, penenunan dan penyiapan tekstil<br><i>Spinning, weaving and finishing of textiles</i>                                                                                                                                                 | 72.8 | 63.9 | 71.2 | 64.7 | 54.6 | 55.2 | 65.1 | 65.8 | 91.3 |
| 139                        | Pembuatan tekstil lain<br><i>Manufacture of other textiles</i>                                                                                                                                                                                    | 80.0 | 79.4 | 80.0 | 79.1 | 77.7 | 78.8 | 79.7 | 78.2 | 79.9 |
| 141                        | Pembuatan pakaian, kecuali pakaian berbulu<br><i>Manufacture of wearing apparel, except fur apparel</i>                                                                                                                                           | 87.6 | 88.0 | 89.5 | 87.4 | 85.4 | 88.7 | 87.9 | 88.2 | 85.8 |
| 142 & 143                  | Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye<br><i>Manufacture of articles of fur, knitted and crocheted apparel</i>                                                                                                | 73.7 | 65.9 | 71.7 | 87.7 | 85.0 | 86.8 | 84.7 | 86.6 | 86.1 |
| 151                        | Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu<br><i>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur</i> | 85.8 | 84.4 | 83.1 | 82.8 | 80.7 | 86.7 | 87.3 | 86.5 | 92.8 |
| 152                        | Pembuatan kasut<br><i>Manufacture of footwear</i>                                                                                                                                                                                                 | 73.9 | 73.8 | 76.3 | 77.4 | 75.1 | 77.9 | 77.7 | 77.6 | 75.9 |
| 161                        | Pengilangan dan pengetaman kayu<br><i>Sawmilling and planing of wood</i>                                                                                                                                                                          | 76.1 | 75.8 | 74.3 | 73.4 | 68.5 | 75.2 | 71.5 | 72.0 | 73.0 |
| 162                        | Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain<br><i>Manufacture of products of wood, cork, straw and plaiting materials</i>                                                                                                | 77.8 | 75.7 | 77.8 | 77.0 | 70.8 | 77.7 | 77.1 | 76.5 | 73.2 |
| 170                        | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                              | 79.0 | 79.5 | 78.0 | 83.1 | 79.2 | 81.2 | 81.9 | 81.4 | 78.9 |
| 181 & 182                  | Percetakan dan aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman<br><i>Printing and service activities related to printing &amp; reproduction of recorded media</i>                                                  | 77.1 | 76.3 | 75.4 | 74.9 | 74.8 | 78.4 | 76.8 | 79.1 | 78.5 |
| 192                        | Pembuatan produk produk petroleum bertapis<br><i>Manufacture of refined petroleum products</i>                                                                                                                                                    | 87.2 | 89.5 | 88.5 | 88.6 | 84.1 | 84.8 | 86.2 | 85.2 | 86.4 |
| 201                        | Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer<br><i>Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms</i>                      | 82.7 | 78.5 | 80.5 | 85.3 | 86.4 | 84.4 | 81.5 | 85.0 | 80.2 |
| 202 & 203                  | Pembuatan produk kimia lain dan serat buatan manusia<br><i>Manufacture of other chemical products and man-made fibres</i>                                                                                                                         | 81.6 | 80.9 | 80.1 | 75.2 | 80.6 | 87.4 | 73.0 | 81.3 | 80.0 |
| 210                        | Pembuatan produk farmaseutikal, kimia perubatan dan botani<br><i>Manufacture of pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                    | 76.0 | 79.9 | 73.7 | 75.6 | 73.8 | 75.0 | 72.2 | 71.8 | 74.6 |
| 221                        | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                   | 83.5 | 82.9 | 82.8 | 82.3 | 79.8 | 81.7 | 79.9 | 79.6 | 78.6 |
| 222                        | Pembuatan produk plastik<br><i>Manufacture of plastics products</i>                                                                                                                                                                               | 78.5 | 78.3 | 77.3 | 78.2 | 77.1 | 78.1 | 78.9 | 77.6 | 76.0 |

| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 67.2 | 66.0 | 67.0 | 66.4 | 67.4 | 66.3 | 70.7 | 73.3 | 72.3 | 71.1 | 72.6 | 70.9 | 72.3 | 73.0 | 74.2 |
| 72.4 | 70.3 | 73.3 | 72.7 | 73.1 | 72.1 | 73.0 | 68.7 | 74.3 | 74.2 | 73.3 | 71.7 | 71.8 | 70.0 | 73.7 |
| 64.1 | 69.3 | 63.8 | 61.4 | 63.5 | 66.2 | 75.9 | 64.9 | 62.2 | 64.3 | 63.8 | 61.7 | 62.6 | 64.3 | 62.2 |
| 78.8 | 79.5 | 77.5 | 85.9 | 84.1 | 81.6 | 67.7 | 80.1 | 70.9 | 71.7 | 79.2 | 70.3 | 71.3 | 71.6 | 71.8 |
| 74.9 | 76.5 | 70.6 | 77.0 | 72.7 | 70.9 | 63.4 | 61.2 | 65.4 | 67.6 | 65.4 | 60.8 | 67.9 | 67.7 | 65.6 |
| 61.7 | 61.1 | 58.7 | 59.1 | 60.0 | 58.9 | 68.3 | 66.5 | 68.3 | 68.5 | 68.2 | 66.5 | 66.7 | 69.3 | 69.2 |
| 74.3 | 74.7 | 80.4 | 82.2 | 80.2 | 80.6 | 78.6 | 80.0 | 82.5 | 82.4 | 80.7 | 77.4 | 79.9 | 77.4 | 78.9 |
| 77.9 | 73.2 | 73.0 | 72.2 | 71.4 | 73.5 | 67.5 | 67.0 | 71.2 | 73.1 | 74.9 | 71.5 | 73.7 | 74.0 | 72.0 |
| 81.7 | 80.7 | 68.6 | 74.8 | 69.7 | 76.0 | 74.3 | 63.4 | 65.2 | 71.6 | 72.7 | 66.1 | 68.8 | 72.6 | 73.5 |
| 66.8 | 66.0 | 67.0 | 66.0 | 65.5 | 66.4 | 77.6 | 77.3 | 79.2 | 90.0 | 69.8 | 72.5 | 74.4 | 80.9 | 76.4 |
| 65.2 | 65.8 | 62.7 | 69.7 | 62.1 | 63.6 | 66.1 | 64.3 | 66.6 | 66.4 | 64.3 | 63.9 | 65.7 | 65.6 | 65.6 |
| 78.1 | 79.5 | 73.8 | 73.9 | 74.2 | 79.3 | 78.7 | 78.4 | 78.5 | 78.7 | 77.0 | 78.3 | 77.9 | 78.2 | 77.3 |
| 88.9 | 87.1 | 85.7 | 88.2 | 86.0 | 87.8 | 86.3 | 81.9 | 87.1 | 86.6 | 88.1 | 85.8 | 89.2 | 87.6 | 86.1 |
| 87.5 | 86.3 | 83.8 | 86.2 | 86.0 | 85.5 | 76.5 | 72.0 | 74.5 | 79.6 | 92.7 | 92.9 | 87.3 | 83.1 | 79.5 |
| 93.1 | 89.2 | 82.1 | 81.3 | 81.5 | 79.7 | 70.0 | 75.9 | 78.9 | 78.1 | 81.4 | 74.5 | 80.9 | 79.0 | 78.8 |
| 77.1 | 76.9 | 77.1 | 78.3 | 76.8 | 76.9 | 78.6 | 74.2 | 77.4 | 81.2 | 78.7 | 80.9 | 78.8 | 81.5 | 79.4 |
| 75.7 | 73.7 | 75.8 | 74.3 | 75.4 | 74.0 | 77.9 | 68.3 | 76.3 | 76.8 | 77.3 | 74.7 | 74.3 | 74.9 | 76.9 |
| 76.6 | 76.9 | 76.0 | 76.7 | 76.3 | 77.4 | 76.1 | 72.7 | 76.4 | 76.7 | 73.6 | 71.1 | 72.5 | 74.2 | 71.0 |
| 81.6 | 81.6 | 80.5 | 81.6 | 79.8 | 80.8 | 78.9 | 75.8 | 79.9 | 80.4 | 81.5 | 75.4 | 79.2 | 78.1 | 78.8 |
| 79.2 | 78.7 | 75.8 | 75.9 | 73.4 | 75.5 | 72.5 | 72.7 | 73.0 | 75.0 | 73.9 | 74.1 | 73.8 | 75.3 | 73.3 |
| 85.8 | 79.6 | 80.0 | 76.4 | 87.0 | 88.2 | 73.8 | 77.4 | 71.9 | 72.8 | 80.0 | 86.5 | 83.4 | 82.4 | 84.8 |
| 84.8 | 83.2 | 84.1 | 84.7 | 85.6 | 83.5 | 80.0 | 84.5 | 78.7 | 82.0 | 85.0 | 84.4 | 82.8 | 79.6 | 82.9 |
| 80.0 | 65.0 | 77.0 | 62.8 | 77.5 | 75.1 | 76.9 | 77.5 | 79.0 | 75.5 | 82.1 | 77.7 | 77.3 | 78.1 | 71.8 |
| 79.5 | 75.9 | 72.6 | 75.4 | 73.1 | 75.4 | 75.8 | 71.7 | 71.4 | 76.1 | 75.4 | 73.6 | 76.1 | 75.7 | 71.9 |
| 80.2 | 80.0 | 79.8 | 80.6 | 79.4 | 79.6 | 79.9 | 79.1 | 79.6 | 79.0 | 80.4 | 80.4 | 80.6 | 81.2 | 79.7 |
| 80.1 | 78.9 | 76.3 | 77.6 | 75.8 | 76.3 | 76.5 | 73.6 | 76.0 | 78.1 | 78.2 | 74.9 | 77.4 | 76.0 | 75.4 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                   | 2019 |      |      | 2020 |      |      |      |      |      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
|                            |                                                                                                                                                                                                                                            | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  |
| 101                        | Pemprosesan dan pengawetan daging<br>Processing and preserving of meat                                                                                                                                                                     | 75.4 | 75.4 | 74.8 | 88.9 | 88.4 | 82.2 | 81.7 | 85.8 | 85.3 |
| 102                        | Pemprosesan dan pengawetan ikan, krustasea dan moluska<br>Processing and preserving of fish, crustaceans and molluscs                                                                                                                      | 74.7 | 72.2 | 69.3 | 70.0 | 69.4 | 68.4 | 68.9 | 72.7 | 72.9 |
| 103                        | Pemprosesan dan pengawetan buah-buahan dan sayur-sayuran<br>Processing and preserving of fruits and vegetable                                                                                                                              | 64.6 | 68.6 | 69.8 | 66.0 | 68.6 | 53.9 | 54.8 | 60.3 | 67.6 |
| 104                        | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br>Manufacture of vegetable and animal oils and fats                                                                                                                                | 68.6 | 66.4 | 65.4 | 65.7 | 68.6 | 80.8 | 76.8 | 79.8 | 79.6 |
| 105                        | Pembuatan produk tenusu<br>Manufacture of dairy products                                                                                                                                                                                   | 65.9 | 68.5 | 74.1 | 73.4 | 80.6 | 66.6 | 67.4 | 71.7 | 76.7 |
| 106                        | Pembuatan produk bijian, kanji dan produk berkanji<br>Manufacture of grain mill products, starches and starch products                                                                                                                     | 67.1 | 67.5 | 67.1 | 69.6 | 69.8 | 55.4 | 49.3 | 68.8 | 54.4 |
| 107                        | Pembuatan produk makanan lain<br>Manufacture of other food products                                                                                                                                                                        | 74.8 | 76.7 | 77.9 | 78.3 | 75.6 | 72.5 | 70.7 | 75.5 | 83.1 |
| 108                        | Pembuatan makanan haiwan tersedia<br>Manufacture of prepared animal feeds                                                                                                                                                                  | 76.8 | 74.3 | 75.6 | 73.8 | 74.5 | 74.0 | 74.6 | 71.8 | 70.9 |
| 110                        | Pembuatan minuman ringan<br>Manufacture of beverages                                                                                                                                                                                       | 75.9 | 76.2 | 77.1 | 71.4 | 73.6 | 58.9 | 49.8 | 50.9 | 62.9 |
| 120                        | Pembuatan produk tembakau<br>Manufacture of tobacco products                                                                                                                                                                               | 77.4 | 75.6 | 71.5 | 73.9 | 72.5 | 54.0 | 1.6  | 73.6 | 68.6 |
| 131                        | Pemintalan, penenunan dan penyiapan tekstil<br>Spinning, weaving and finishing of textiles                                                                                                                                                 | 66.9 | 66.7 | 64.4 | 75.2 | 73.3 | 61.1 | 30.5 | 49.7 | 64.6 |
| 139                        | Pembuatan tekstil lain<br>Manufacture of other textiles                                                                                                                                                                                    | 77.5 | 77.9 | 77.8 | 78.1 | 77.3 | 73.5 | 61.0 | 71.9 | 73.8 |
| 141                        | Pembuatan pakaian, kecuali pakaian berbulu<br>Manufacture of wearing apparel, except fur apparel                                                                                                                                           | 86.5 | 87.4 | 90.8 | 78.9 | 80.2 | 70.1 | 52.9 | 60.1 | 71.1 |
| 142 & 143                  | Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye<br>Manufacture of articles of fur, knitted and crocheted apparel                                                                                                | 84.3 | 78.0 | 73.4 | 67.6 | 66.6 | 51.7 | 35.0 | 57.4 | 54.1 |
| 151                        | Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu<br>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur | 80.6 | 80.5 | 83.2 | 74.6 | 68.6 | 48.3 | 35.5 | 58.3 | 69.6 |
| 152                        | Pembuatan kasut<br>Manufacture of footwear                                                                                                                                                                                                 | 83.4 | 80.8 | 83.7 | 83.2 | 85.0 | 77.6 | 52.9 | 78.5 | 75.6 |
| 161                        | Pengilangan dan pengetaman kayu<br>Sawmilling and planing of wood                                                                                                                                                                          | 77.4 | 77.1 | 71.2 | 73.9 | 74.6 | 58.9 | 56.7 | 66.5 | 72.2 |
| 162                        | Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain<br>Manufacture of products of wood, cork, straw and plaiting materials                                                                                                | 73.6 | 71.4 | 71.9 | 69.8 | 70.5 | 59.9 | 54.4 | 60.0 | 70.1 |
| 170                        | Pembuatan kertas dan produk kertas<br>Manufacture of paper and paper products                                                                                                                                                              | 79.7 | 81.2 | 79.7 | 78.5 | 78.6 | 66.1 | 61.8 | 68.1 | 75.2 |
| 181 & 182                  | Percetakan dan aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman<br>Printing and service activities related to printing & reproduction of recorded media                                                      | 72.1 | 73.5 | 73.3 | 71.8 | 71.7 | 58.2 | 29.7 | 42.5 | 78.2 |
| 192                        | Pembuatan produk produk petroleum bertapis<br>Manufacture of refined petroleum products                                                                                                                                                    | 81.6 | 85.6 | 83.8 | 67.5 | 69.2 | 60.3 | 32.0 | 54.2 | 66.6 |
| 201                        | Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer<br>Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms                      | 83.2 | 84.2 | 82.4 | 78.0 | 79.4 | 70.8 | 63.0 | 78.1 | 75.8 |
| 202 & 203                  | Pembuatan produk kimia lain dan serat buatan manusia<br>Manufacture of other chemical products and man-made fibres                                                                                                                         | 72.8 | 77.1 | 73.4 | 76.6 | 74.0 | 62.0 | 45.3 | 48.3 | 59.2 |
| 210                        | Pembuatan produk farmaseutikal, kimia perubatan dan botani<br>Manufacture of pharmaceuticals, medicinal chemical and botanical products                                                                                                    | 72.3 | 72.1 | 67.5 | 76.2 | 73.5 | 69.2 | 69.4 | 68.6 | 73.6 |
| 221                        | Pembuatan produk getah<br>Manufacture of rubber products                                                                                                                                                                                   | 80.6 | 81.2 | 81.6 | 82.7 | 82.4 | 77.7 | 80.1 | 78.1 | 81.7 |
| 222                        | Pembuatan produk plastik<br>Manufacture of plastics products                                                                                                                                                                               | 77.0 | 77.9 | 77.5 | 78.2 | 76.4 | 67.3 | 61.2 | 71.5 | 76.6 |

| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 87.3 | 86.9 | 84.8 | 83.2 | 84.5 | 84.5 | 88.0 | 84.0 | 84.4 | 83.9 | 78.3 | 76.9 | 73.1 | 76.5 | 76.7 |
| 73.2 | 70.9 | 68.9 | 71.2 | 71.4 | 71.3 | 69.6 | 69.9 | 70.9 | 71.2 | 71.7 | 71.0 | 69.9 | 68.9 | 70.5 |
| 70.7 | 63.5 | 63.8 | 63.1 | 65.3 | 73.6 | 72.9 | 63.9 | 66.5 | 65.9 | 67.0 | 57.2 | 58.5 | 64.8 | 57.0 |
| 76.0 | 69.0 | 69.5 | 64.8 | 61.9 | 60.5 | 68.9 | 69.0 | 82.2 | 81.7 | 70.6 | 77.5 | 81.4 | 79.1 | 81.6 |
| 73.0 | 73.9 | 74.4 | 73.2 | 72.7 | 72.9 | 74.0 | 73.4 | 74.7 | 73.5 | 69.2 | 71.7 | 67.0 | 67.4 | 59.5 |
| 52.0 | 70.3 | 56.7 | 51.0 | 68.1 | 54.4 | 58.7 | 58.9 | 59.6 | 59.7 | 58.2 | 58.3 | 61.5 | 61.1 | 62.7 |
| 78.2 | 81.7 | 83.3 | 85.1 | 80.7 | 83.5 | 80.6 | 77.5 | 83.9 | 80.7 | 80.0 | 81.5 | 81.1 | 79.6 | 80.7 |
| 75.0 | 74.7 | 71.9 | 74.9 | 70.8 | 71.8 | 70.6 | 64.6 | 70.2 | 72.7 | 71.5 | 72.0 | 75.8 | 71.6 | 69.6 |
| 65.0 | 66.6 | 71.0 | 72.0 | 70.2 | 71.2 | 69.6 | 61.9 | 69.1 | 68.4 | 61.6 | 58.0 | 57.3 | 61.1 | 74.0 |
| 76.0 | 73.2 | 62.1 | 53.4 | 52.1 | 55.4 | 78.4 | 81.1 | 81.4 | 76.3 | 79.3 | 9.7  | 8.8  | 9.9  | 77.6 |
| 65.4 | 65.2 | 65.2 | 66.0 | 66.6 | 67.0 | 75.6 | 86.7 | 80.6 | 83.8 | 76.5 | 70.7 | 71.5 | 62.2 | 67.8 |
| 76.0 | 75.5 | 75.9 | 74.0 | 74.1 | 74.1 | 74.6 | 69.9 | 70.9 | 72.4 | 76.9 | 68.1 | 67.2 | 71.6 | 74.1 |
| 69.4 | 73.6 | 75.3 | 75.8 | 74.2 | 76.9 | 80.6 | 76.9 | 78.6 | 79.7 | 79.1 | 70.6 | 69.1 | 71.6 | 72.1 |
| 59.5 | 54.0 | 59.2 | 65.1 | 64.2 | 60.2 | 69.6 | 57.4 | 57.2 | 54.0 | 53.8 | 78.0 | 75.3 | 39.7 | 53.6 |
| 70.2 | 65.6 | 66.5 | 63.8 | 72.6 | 75.3 | 68.1 | 65.6 | 65.7 | 68.4 | 65.5 | 49.8 | 63.2 | 58.0 | 77.9 |
| 77.4 | 77.9 | 78.6 | 79.5 | 81.7 | 80.6 | 78.8 | 79.3 | 84.2 | 83.1 | 82.1 | 84.6 | 67.7 | 66.1 | 68.7 |
| 68.4 | 71.4 | 72.4 | 71.3 | 69.7 | 69.4 | 70.2 | 68.8 | 70.4 | 69.7 | 68.1 | 60.1 | 64.7 | 68.0 | 68.1 |
| 70.6 | 69.6 | 70.4 | 69.0 | 70.7 | 70.7 | 67.9 | 68.5 | 69.7 | 69.6 | 71.5 | 66.3 | 63.4 | 67.1 | 68.8 |
| 75.9 | 74.5 | 76.6 | 77.2 | 77.0 | 77.0 | 79.7 | 75.1 | 78.1 | 76.8 | 75.5 | 73.7 | 70.8 | 68.4 | 71.9 |
| 85.1 | 70.5 | 80.7 | 70.8 | 69.5 | 70.0 | 70.3 | 70.8 | 72.6 | 70.9 | 68.5 | 66.8 | 65.2 | 67.0 | 67.4 |
| 65.3 | 66.6 | 69.2 | 73.4 | 62.6 | 69.0 | 78.8 | 79.2 | 78.0 | 78.0 | 79.1 | 74.7 | 74.3 | 64.5 | 53.8 |
| 77.8 | 76.0 | 80.0 | 81.7 | 80.6 | 77.8 | 84.7 | 84.2 | 80.4 | 78.9 | 84.2 | 76.7 | 78.6 | 77.4 | 84.1 |
| 65.2 | 70.5 | 73.0 | 69.8 | 69.1 | 71.7 | 72.8 | 70.1 | 72.0 | 71.8 | 68.3 | 72.7 | 68.6 | 65.5 | 72.7 |
| 73.4 | 77.1 | 77.6 | 76.0 | 72.0 | 77.5 | 72.1 | 74.1 | 72.4 | 75.0 | 69.8 | 68.9 | 72.3 | 74.3 | 76.7 |
| 82.8 | 82.9 | 83.1 | 83.5 | 83.7 | 84.4 | 81.7 | 79.2 | 82.9 | 82.3 | 81.6 | 77.6 | 73.5 | 71.2 | 76.0 |
| 77.1 | 75.7 | 76.8 | 77.4 | 77.2 | 77.8 | 75.4 | 75.8 | 77.3 | 75.8 | 72.8 | 70.9 | 67.6 | 70.0 | 75.2 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                   | 2021 |      | 2022 |      |      |      |      |      |      |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
|                                   |                                                                                                                                                                                                                                                   | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  |
| 101                               | Pemprosesan dan pengawetan daging<br><i>Processing and preserving of meat</i>                                                                                                                                                                     | 79.8 | 80.2 | 80.6 | 81.3 | 76.5 | 79.1 | 80.6 | 81.1 | 80.4 |
| 102                               | Pemprosesan dan pengawetan ikan, krustasea dan moluska<br><i>Processing and preserving of fish, crustaceans and molluscs</i>                                                                                                                      | 71.2 | 68.4 | 71.2 | 74.6 | 69.5 | 75.8 | 71.5 | 71.6 | 73.8 |
| 103                               | Pemprosesan dan pengawetan buah-buahan dan sayur-sayuran<br><i>Processing and preserving of fruits and vegetable</i>                                                                                                                              | 56.8 | 64.8 | 75.2 | 82.8 | 73.1 | 80.6 | 78.7 | 77.1 | 84.0 |
| 104                               | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                | 71.9 | 69.2 | 65.3 | 66.2 | 62.6 | 65.1 | 59.1 | 69.6 | 68.7 |
| 105                               | Pembuatan produk tenusu<br><i>Manufacture of dairy products</i>                                                                                                                                                                                   | 67.2 | 59.4 | 70.6 | 84.6 | 80.0 | 80.7 | 81.8 | 77.8 | 74.1 |
| 106                               | Pembuatan produk bijian, kanji dan produk berkanji<br><i>Manufacture of grain mill products, starches and starch products</i>                                                                                                                     | 58.7 | 58.4 | 59.8 | 73.0 | 58.8 | 67.1 | 55.0 | 65.1 | 73.3 |
| 107                               | Pembuatan produk makanan lain<br><i>Manufacture of other food products</i>                                                                                                                                                                        | 79.4 | 76.8 | 78.5 | 84.2 | 76.2 | 84.6 | 71.5 | 86.0 | 87.4 |
| 108                               | Pembuatan makanan haiwan tersedia<br><i>Manufacture of prepared animal feeds</i>                                                                                                                                                                  | 68.0 | 72.2 | 70.5 | 82.5 | 66.3 | 75.7 | 75.6 | 78.6 | 83.0 |
| 110                               | Pembuatan minuman ringan<br><i>Manufacture of beverages</i>                                                                                                                                                                                       | 74.3 | 78.3 | 73.8 | 87.9 | 80.5 | 81.1 | 81.1 | 80.8 | 79.5 |
| 120                               | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                               | 80.8 | 81.0 | 72.0 | 97.9 | 99.1 | 97.7 | 79.1 | 99.3 | 96.8 |
| 131                               | Pemintalan, penenunan dan penyiapan tekstil<br><i>Spinning, weaving and finishing of textiles</i>                                                                                                                                                 | 69.2 | 69.6 | 69.9 | 88.5 | 86.2 | 90.0 | 82.4 | 78.4 | 83.4 |
| 139                               | Pembuatan tekstil lain<br><i>Manufacture of other textiles</i>                                                                                                                                                                                    | 78.8 | 79.8 | 80.0 | 87.0 | 81.0 | 79.0 | 89.6 | 86.5 | 84.9 |
| 141                               | Pembuatan pakaian, kecuali pakaian berbulu<br><i>Manufacture of wearing apparel, except fur apparel</i>                                                                                                                                           | 77.5 | 79.7 | 80.6 | 73.1 | 70.6 | 75.9 | 78.6 | 81.1 | 75.6 |
| 142 & 143                         | Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye<br><i>Manufacture of articles of fur, knitted and crocheted apparel</i>                                                                                                | 60.8 | 66.5 | 64.3 | 63.6 | 64.2 | 72.0 | 71.9 | 64.0 | 89.3 |
| 151                               | Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu<br><i>Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur</i> | 77.4 | 76.4 | 74.8 | 91.6 | 84.8 | 87.3 | 79.9 | 74.2 | 93.8 |
| 152                               | Pembuatan kasut<br><i>Manufacture of footwear</i>                                                                                                                                                                                                 | 70.0 | 71.5 | 69.1 | 88.5 | 82.9 | 90.9 | 89.8 | 91.3 | 91.6 |
| 161                               | Pengilangan dan pengetaman kayu<br><i>Sawmilling and planing of wood</i>                                                                                                                                                                          | 70.5 | 71.7 | 67.2 | 72.3 | 70.6 | 79.7 | 78.6 | 76.4 | 81.2 |
| 162                               | Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain<br><i>Manufacture of products of wood, cork, straw and plaiting materials</i>                                                                                                | 74.7 | 72.9 | 69.6 | 71.6 | 70.8 | 73.8 | 72.2 | 70.8 | 72.1 |
| 170                               | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                              | 70.7 | 73.7 | 75.5 | 83.6 | 80.0 | 84.5 | 80.3 | 76.8 | 80.9 |
| 181 & 182                         | Percetakan dan aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman<br><i>Printing and service activities related to printing &amp; reproduction of recorded media</i>                                                  | 71.7 | 71.3 | 70.4 | 73.0 | 73.2 | 70.5 | 75.9 | 75.9 | 80.5 |
| 192                               | Pembuatan produk petroleum bertapis<br><i>Manufacture of refined petroleum products</i>                                                                                                                                                           | 57.3 | 64.6 | 67.7 | 85.7 | 90.8 | 76.8 | 86.4 | 71.6 | 66.2 |
| 201                               | Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer<br><i>Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms</i>                      | 82.8 | 84.7 | 82.3 | 81.8 | 76.8 | 84.4 | 83.0 | 80.2 | 76.9 |
| 202 & 203                         | Pembuatan produk kimia lain dan serat buatan manusia<br><i>Manufacture of other chemical products and man-made fibres</i>                                                                                                                         | 69.1 | 73.4 | 73.5 | 76.6 | 78.3 | 79.6 | 71.8 | 76.1 | 76.1 |
| 210                               | Pembuatan produk farmaseutikal, kimia perubatan dan botani<br><i>Manufacture of pharmaceuticals, medicinal chemical and botanical products</i>                                                                                                    | 69.8 | 72.4 | 71.3 | 78.6 | 71.1 | 80.4 | 78.5 | 76.3 | 84.6 |
| 221                               | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                   | 79.5 | 82.1 | 81.7 | 83.3 | 80.4 | 82.6 | 83.0 | 80.4 | 80.7 |
| 222                               | Pembuatan produk plastik<br><i>Manufacture of plastics products</i>                                                                                                                                                                               | 78.0 | 75.9 | 74.9 | 80.6 | 77.9 | 81.5 | 79.7 | 78.5 | 80.9 |

| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 82.9 | 82.0 | 83.1 | 81.0 | 81.7 | 81.4 | 85.2 | 86.0 | 86.1 | 88.2 | 88.5 | 87.9 | 90.6 | 90.8 | 92.6 |
| 77.7 | 75.3 | 78.4 | 76.1 | 77.1 | 78.0 | 77.7 | 73.4 | 74.7 | 76.8 | 80.0 | 76.5 | 79.6 | 81.3 | 77.2 |
| 81.6 | 76.3 | 75.3 | 71.9 | 86.3 | 78.6 | 72.9 | 83.9 | 81.5 | 79.4 | 77.7 | 78.1 | 79.6 | 79.0 | 81.7 |
| 67.9 | 70.5 | 68.7 | 71.6 | 74.1 | 65.2 | 64.8 | 67.3 | 65.7 | 66.3 | 73.0 | 71.4 | 74.6 | 75.7 | 78.3 |
| 78.2 | 74.6 | 71.7 | 78.2 | 69.9 | 68.1 | 72.9 | 76.7 | 78.3 | 75.4 | 80.6 | 76.2 | 83.0 | 79.4 | 81.1 |
| 71.1 | 73.6 | 75.4 | 74.7 | 76.1 | 77.1 | 76.6 | 75.2 | 74.0 | 65.0 | 73.9 | 71.7 | 73.7 | 72.9 | 78.2 |
| 88.3 | 89.1 | 85.4 | 84.8 | 83.1 | 85.9 | 88.8 | 85.1 | 89.7 | 79.8 | 81.0 | 82.8 | 80.9 | 84.4 | 84.4 |
| 84.8 | 84.7 | 80.9 | 81.9 | 81.1 | 84.2 | 82.5 | 78.8 | 78.5 | 81.5 | 83.0 | 82.0 | 83.5 | 83.8 | 81.8 |
| 82.6 | 82.4 | 80.4 | 79.9 | 78.8 | 83.5 | 79.0 | 77.3 | 77.3 | 78.3 | 82.5 | 80.0 | 80.1 | 80.2 | 80.5 |
| 74.3 | 54.6 | 77.6 | 77.5 | 56.5 | 99.6 | 92.7 | 91.5 | 96.8 | 92.9 | 93.4 | 82.3 | 82.0 | 81.7 | 89.4 |
| 86.1 | 87.1 | 94.5 | 87.1 | 86.0 | 88.6 | 58.3 | 65.5 | 66.5 | 72.0 | 71.3 | 77.2 | 72.4 | 73.7 | 72.4 |
| 84.9 | 83.4 | 83.6 | 81.2 | 81.6 | 71.1 | 82.4 | 86.8 | 93.1 | 85.9 | 87.9 | 87.7 | 87.2 | 85.5 | 86.0 |
| 77.5 | 71.8 | 73.2 | 68.6 | 69.2 | 73.3 | 77.9 | 72.8 | 82.9 | 81.7 | 81.5 | 82.3 | 81.3 | 82.5 | 83.4 |
| 86.6 | 70.7 | 66.4 | 67.0 | 72.4 | 83.0 | 85.9 | 74.1 | 73.4 | 48.1 | 79.4 | 77.9 | 76.5 | 78.3 | 78.9 |
| 90.7 | 95.5 | 94.5 | 93.7 | 95.5 | 94.6 | 97.0 | 93.8 | 94.1 | 77.8 | 82.2 | 81.8 | 77.8 | 78.9 | 80.3 |
| 90.7 | 93.2 | 90.2 | 90.5 | 90.3 | 92.1 | 86.1 | 74.5 | 76.1 | 85.9 | 87.0 | 84.8 | 79.9 | 79.3 | 82.2 |
| 78.6 | 79.4 | 78.9 | 75.5 | 77.6 | 79.1 | 73.7 | 76.0 | 75.6 | 78.6 | 77.3 | 78.7 | 77.0 | 75.3 | 76.3 |
| 69.6 | 73.8 | 71.6 | 71.6 | 67.4 | 66.6 | 65.9 | 65.8 | 66.6 | 65.3 | 68.3 | 65.7 | 67.6 | 72.1 | 72.1 |
| 79.5 | 78.1 | 77.6 | 77.9 | 75.4 | 76.5 | 74.6 | 77.3 | 79.9 | 76.5 | 75.6 | 77.6 | 77.0 | 77.4 | 78.0 |
| 76.7 | 77.6 | 77.0 | 76.1 | 81.7 | 80.3 | 78.2 | 79.8 | 80.3 | 82.8 | 83.8 | 83.2 | 82.9 | 83.4 | 83.8 |
| 79.8 | 80.1 | 85.0 | 84.7 | 86.4 | 85.9 | 85.9 | 79.4 | 81.4 | 72.8 | 73.5 | 74.0 | 74.4 | 74.6 | 73.4 |
| 80.7 | 82.3 | 75.2 | 82.1 | 80.5 | 78.1 | 80.3 | 81.0 | 79.8 | 81.0 | 82.7 | 83.9 | 83.4 | 83.6 | 80.7 |
| 69.3 | 75.9 | 72.2 | 70.1 | 70.9 | 67.7 | 67.1 | 67.2 | 76.1 | 66.6 | 71.8 | 77.2 | 78.6 | 81.5 | 78.8 |
| 86.7 | 88.2 | 84.2 | 82.2 | 79.2 | 69.5 | 79.6 | 85.8 | 83.1 | 80.7 | 80.6 | 81.6 | 81.2 | 83.5 | 85.8 |
| 77.3 | 78.9 | 76.5 | 78.3 | 76.4 | 74.7 | 77.0 | 76.3 | 79.1 | 75.2 | 77.9 | 80.4 | 77.7 | 78.0 | 77.1 |
| 80.7 | 81.1 | 82.5 | 81.9 | 80.0 | 80.3 | 79.9 | 80.4 | 80.9 | 76.7 | 80.5 | 78.9 | 79.0 | 80.2 | 78.7 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                                                                                           | 2017 |      |      |      |      |      |      |      |      |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|--|
|                            |                                                                                                                                                                                                                                                                                                                    | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |  |
| 231                        | Pembuatan kaca dan produk kaca<br>Manufacture of glass and glass products                                                                                                                                                                                                                                          | 82.1 | 79.6 | 82.6 | 80.5 | 81.1 | 80.7 | 81.6 | 81.2 | 82.0 |  |
| 239                        | Pembuatan pengeluaran galian bukan logam t.t.t.l.<br>Manufacture of non-metallic mineral products n.e.c.                                                                                                                                                                                                           | 75.5 | 71.8 | 69.9 | 71.5 | 69.1 | 70.3 | 70.0 | 70.3 | 69.1 |  |
| 241                        | Pembuatan besi dan keluli asas<br>Manufacture of basic iron and steel                                                                                                                                                                                                                                              | 79.4 | 71.2 | 81.1 | 72.2 | 74.8 | 67.0 | 80.1 | 83.1 | 74.4 |  |
| 242                        | Pembuatan logam asas berharga dan logam bukan ferus lain<br>Manufacture of basic precious and other non-ferrous metals                                                                                                                                                                                             | 79.1 | 80.5 | 83.7 | 82.2 | 83.2 | 79.6 | 81.1 | 80.5 | 77.1 |  |
| 243                        | Pengacuan logam<br>Casting of metals                                                                                                                                                                                                                                                                               | 70.7 | 71.7 | 75.1 | 74.8 | 74.2 | 73.5 | 72.6 | 72.6 | 71.6 |  |
| 251 & 252                  | Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru<br>Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition                                                                                                                        | 73.7 | 77.3 | 76.6 | 76.7 | 77.2 | 77.3 | 78.9 | 76.8 | 76.6 |  |
| 259                        | Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam<br>Manufacture of other fabricated metal products; metal working service activities                                                                                                                                       | 74.6 | 73.4 | 73.9 | 73.1 | 74.9 | 70.5 | 72.2 | 73.2 | 71.9 |  |
| 261                        | Pembuatan komponen dan papan elektronik<br>Manufacture of electronic components and boards                                                                                                                                                                                                                         | 85.0 | 84.7 | 86.5 | 84.1 | 85.1 | 83.9 | 85.1 | 86.5 | 87.1 |  |
| 262                        | Pembuatan komputer dan kelengkapan peranti<br>Manufacture of computers and peripheral equipment                                                                                                                                                                                                                    | 62.8 | 62.0 | 69.2 | 64.2 | 63.4 | 67.5 | 64.8 | 69.4 | 73.5 |  |
| 263                        | Pembuatan peralatan komunikasi<br>Manufacture of communication equipment                                                                                                                                                                                                                                           | 74.7 | 76.9 | 85.2 | 60.4 | 57.0 | 61.4 | 59.3 | 58.6 | 91.1 |  |
| 264                        | Pembuatan peralatan elektronik pengguna<br>Manufacture of consumer electronics                                                                                                                                                                                                                                     | 72.3 | 76.9 | 72.8 | 78.6 | 85.8 | 79.4 | 85.5 | 91.3 | 87.7 |  |
| 265                        | Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam<br>Manufacture of measuring, testing, navigating and control equipment; watches and clocks                                                                                                                                   | 67.2 | 68.6 | 67.8 | 65.0 | 66.8 | 71.0 | 76.8 | 77.6 | 70.6 |  |
| 266                        | Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik<br>Manufacture of irradiation, electromedical and electrotherapeutic equipment                                                                                                                                                             | 84.1 | 74.7 | 82.1 | 73.5 | 90.4 | 66.1 | 85.8 | 94.8 | 79.4 |  |
| 267 & 268                  | Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal<br>Manufacture of optical instruments, photographic equipment, magnetic and optical media                                                                                                                                           | 83.0 | 85.4 | 87.1 | 88.9 | 89.0 | 86.6 | 85.1 | 82.0 | 83.6 |  |
| 271                        | Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik<br>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus                                                                                                    | 76.6 | 78.3 | 80.0 | 79.6 | 76.1 | 75.1 | 77.1 | 76.9 | 74.7 |  |
| 272                        | Pembuatan bateri dan akumulator<br>Manufacture of batteries and accumulators                                                                                                                                                                                                                                       | 83.4 | 93.6 | 95.1 | 95.0 | 96.9 | 91.6 | 94.7 | 94.2 | 95.2 |  |
| 273                        | Pembuatan pendawaian dan peranti pendawaian<br>Manufacture of wiring and wiring devices                                                                                                                                                                                                                            | 84.1 | 82.6 | 81.0 | 79.2 | 80.5 | 76.9 | 78.7 | 79.1 | 76.5 |  |
| 274                        | Pembuatan kelengkapan pencahayaan elektrik<br>Manufacture of electric lighting equipment                                                                                                                                                                                                                           | 70.5 | 58.3 | 64.1 | 64.4 | 63.2 | 60.1 | 67.5 | 70.4 | 73.7 |  |
| 275                        | Pembuatan perkakasan domestik<br>Manufacture of domestic appliances                                                                                                                                                                                                                                                | 74.5 | 69.7 | 67.7 | 80.5 | 79.1 | 79.5 | 90.1 | 87.6 | 88.5 |  |
| 279                        | Pembuatan kelengkapan elektrik lain<br>Manufacture of other electrical equipment                                                                                                                                                                                                                                   | 86.7 | 83.7 | 87.3 | 79.4 | 88.7 | 88.4 | 89.8 | 90.1 | 86.3 |  |
| 281 & 282                  | Pembuatan jentera kegunaan umum dan kegunaan khas<br>Manufacture of general-purpose and special-purpose machinery                                                                                                                                                                                                  | 78.5 | 76.4 | 78.9 | 78.1 | 77.5 | 73.9 | 75.1 | 75.4 | 74.1 |  |
| 291                        | Pembuatan kenderaan bermotor<br>Manufacture of motor vehicles                                                                                                                                                                                                                                                      | 67.2 | 66.3 | 66.7 | 61.9 | 70.5 | 74.5 | 70.2 | 61.7 | 59.9 |  |
| 292                        | Pembuatan kerangka (coachwork ) untuk kenderaan bermotor; pembuatan treler dan semi treler<br>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers                                                                                                                      | 77.1 | 76.4 | 73.4 | 76.1 | 77.3 | 78.3 | 77.0 | 76.6 | 78.8 |  |
| 293                        | Pembuatan alat ganti dan aksesori untuk kenderaan bermotor<br>Manufacture of parts and accessories for motor vehicles                                                                                                                                                                                              | 76.9 | 70.7 | 76.6 | 73.5 | 74.5 | 71.6 | 75.0 | 76.0 | 76.6 |  |
| 301                        | Pembinaan kapal dan bot<br>Building of ships and boats                                                                                                                                                                                                                                                             | 89.9 | 84.8 | 70.7 | 74.7 | 75.2 | 70.1 | 74.2 | 77.3 | 75.4 |  |
| 302, 303, 304 & 309        | Pembuatan lokomotif keretapi, rolling stock, kapal angkasa dan udara, jentera berkaitan, kenderaan tempur ketenteraan dan kelengkapan pengangkutan t.t.t.l.<br>Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c. | 79.6 | 79.4 | 75.5 | 78.8 | 76.0 | 71.9 | 78.6 | 75.3 | 80.3 |  |

| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. |
| 81.4 | 81.7 | 81.9 | 79.6 | 79.1 | 83.9 | 81.8 | 80.6 | 75.1 | 77.3 | 78.2 | 76.4 | 79.0 | 80.1 | 76.9 |
| 71.3 | 73.1 | 71.1 | 73.4 | 68.2 | 73.1 | 72.6 | 71.5 | 70.1 | 74.0 | 73.2 | 72.7 | 72.0 | 71.1 | 70.2 |
| 78.4 | 79.7 | 78.5 | 81.2 | 75.3 | 83.0 | 81.0 | 79.3 | 73.7 | 81.9 | 78.5 | 77.2 | 78.1 | 70.7 | 76.9 |
| 80.9 | 80.2 | 79.3 | 75.5 | 71.6 | 75.8 | 76.0 | 75.3 | 73.2 | 76.4 | 74.6 | 74.0 | 81.4 | 78.7 | 78.8 |
| 71.8 | 74.7 | 73.0 | 71.3 | 69.0 | 69.7 | 71.4 | 74.0 | 72.8 | 73.1 | 79.4 | 77.6 | 78.2 | 74.9 | 76.9 |
| 77.7 | 77.8 | 78.7 | 79.4 | 77.4 | 78.1 | 78.6 | 78.0 | 78.3 | 78.3 | 74.2 | 77.9 | 77.8 | 77.0 | 76.9 |
| 73.9 | 74.3 | 76.0 | 77.5 | 75.8 | 78.6 | 78.0 | 76.8 | 75.5 | 77.2 | 79.2 | 78.0 | 79.2 | 79.1 | 78.4 |
| 86.3 | 87.4 | 85.9 | 83.2 | 85.4 | 86.9 | 85.3 | 85.2 | 84.1 | 85.3 | 84.0 | 84.1 | 83.6 | 82.1 | 81.9 |
| 68.6 | 69.6 | 74.0 | 69.3 | 65.5 | 75.4 | 71.2 | 71.7 | 71.2 | 65.1 | 70.6 | 68.2 | 66.0 | 64.3 | 64.0 |
| 67.7 | 72.0 | 88.2 | 85.0 | 69.9 | 82.7 | 80.7 | 80.0 | 72.8 | 84.1 | 78.2 | 75.5 | 78.0 | 73.8 | 74.6 |
| 85.6 | 77.5 | 65.3 | 66.2 | 57.7 | 84.6 | 66.7 | 72.7 | 71.1 | 82.5 | 83.1 | 83.4 | 79.4 | 65.4 | 66.5 |
| 67.6 | 70.1 | 69.2 | 71.4 | 73.9 | 67.1 | 66.9 | 69.1 | 60.1 | 74.4 | 79.2 | 70.6 | 60.9 | 72.3 | 72.0 |
| 94.4 | 95.8 | 92.0 | 53.3 | 67.1 | 55.9 | 55.9 | 57.0 | 54.3 | 51.6 | 50.2 | 51.9 | 52.1 | 55.0 | 51.6 |
| 91.7 | 88.5 | 85.6 | 89.1 | 89.9 | 88.4 | 87.9 | 78.9 | 76.1 | 78.2 | 73.9 | 67.8 | 67.9 | 63.5 | 62.7 |
| 75.9 | 78.0 | 76.0 | 75.8 | 76.9 | 79.4 | 79.4 | 76.8 | 75.5 | 78.6 | 79.6 | 77.2 | 77.2 | 75.8 | 74.5 |
| 95.4 | 94.0 | 90.0 | 83.6 | 83.6 | 83.4 | 83.4 | 84.8 | 83.8 | 79.8 | 84.3 | 84.4 | 91.4 | 90.6 | 86.4 |
| 77.0 | 76.1 | 75.0 | 79.7 | 77.2 | 77.5 | 77.4 | 76.1 | 76.9 | 77.6 | 72.5 | 73.9 | 77.0 | 73.2 | 74.3 |
| 65.6 | 70.7 | 71.0 | 72.0 | 66.6 | 67.3 | 77.9 | 66.6 | 72.5 | 73.4 | 63.2 | 69.6 | 66.3 | 63.0 | 63.5 |
| 88.7 | 84.3 | 87.1 | 89.0 | 84.8 | 89.4 | 94.9 | 95.6 | 87.9 | 81.3 | 83.1 | 84.3 | 83.8 | 84.2 | 85.6 |
| 89.6 | 88.2 | 85.9 | 87.0 | 86.9 | 88.7 | 87.4 | 87.1 | 86.6 | 87.2 | 89.0 | 87.0 | 89.1 | 87.5 | 87.3 |
| 74.9 | 76.3 | 75.6 | 78.1 | 77.4 | 81.3 | 78.5 | 76.6 | 74.2 | 76.8 | 75.1 | 75.8 | 76.1 | 73.4 | 74.5 |
| 54.3 | 75.1 | 77.5 | 78.4 | 71.2 | 80.0 | 80.8 | 82.1 | 84.1 | 84.6 | 71.4 | 63.9 | 79.2 | 82.4 | 76.2 |
| 78.5 | 77.7 | 78.4 | 79.9 | 75.2 | 75.3 | 76.4 | 76.8 | 75.1 | 74.0 | 80.2 | 73.2 | 68.6 | 76.3 | 73.3 |
| 77.8 | 78.0 | 75.4 | 81.9 | 78.6 | 79.3 | 81.3 | 78.8 | 75.1 | 80.2 | 77.2 | 72.8 | 76.8 | 78.7 | 76.0 |
| 74.5 | 78.8 | 73.1 | 69.5 | 70.4 | 62.9 | 65.5 | 85.4 | 72.6 | 69.3 | 66.3 | 67.7 | 72.4 | 70.4 | 76.1 |
| 78.3 | 78.8 | 82.1 | 85.0 | 82.2 | 71.4 | 70.6 | 70.4 | 72.2 | 71.8 | 81.6 | 75.1 | 73.4 | 83.8 | 81.1 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                                                                                           | 2019 |      |      |      |      |      |      |      |      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
|                            |                                                                                                                                                                                                                                                                                                                    | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 231                        | Pembuatan kaca dan produk kaca<br>Manufacture of glass and glass products                                                                                                                                                                                                                                          | 79.6 | 75.9 | 77.5 | 75.5 | 74.2 | 75.9 | 75.3 | 71.4 | 73.0 |
| 239                        | Pembuatan pengeluaran galian bukan logam t.t.t.l.<br>Manufacture of non-metallic mineral products n.e.c.                                                                                                                                                                                                           | 71.6 | 68.2 | 72.9 | 73.7 | 71.9 | 67.8 | 73.2 | 72.7 | 69.6 |
| 241                        | Pembuatan besi dan keluli asas<br>Manufacture of basic iron and steel                                                                                                                                                                                                                                              | 72.2 | 67.7 | 74.0 | 77.5 | 78.7 | 68.5 | 78.1 | 79.4 | 76.5 |
| 242                        | Pembuatan logam asas berharga dan logam bukan ferus lain<br>Manufacture of basic precious and other non-ferrous metals                                                                                                                                                                                             | 78.1 | 73.5 | 77.2 | 77.3 | 76.5 | 76.3 | 75.9 | 76.5 | 77.9 |
| 243                        | Pengacuan logam<br>Casting of metals                                                                                                                                                                                                                                                                               | 79.1 | 76.2 | 73.1 | 77.8 | 77.5 | 73.2 | 75.7 | 76.5 | 74.4 |
| 251 & 252                  | Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru<br>Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition                                                                                                                        | 79.1 | 77.4 | 76.6 | 77.3 | 76.1 | 76.4 | 76.6 | 77.0 | 77.4 |
| 259                        | Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam<br>Manufacture of other fabricated metal products; metal working service activities                                                                                                                                       | 78.2 | 73.9 | 77.8 | 79.2 | 77.2 | 75.4 | 77.6 | 75.8 | 75.2 |
| 261                        | Pembuatan komponen dan papan elektronik<br>Manufacture of electronic components and boards                                                                                                                                                                                                                         | 82.1 | 81.4 | 81.3 | 79.9 | 82.0 | 80.5 | 81.5 | 82.3 | 81.7 |
| 262                        | Pembuatan komputer dan kelengkapan peranti<br>Manufacture of computers and peripheral equipment                                                                                                                                                                                                                    | 60.8 | 55.4 | 58.4 | 57.8 | 53.5 | 65.8 | 68.0 | 69.2 | 65.3 |
| 263                        | Pembuatan peralatan komunikasi<br>Manufacture of communication equipment                                                                                                                                                                                                                                           | 87.7 | 71.0 | 75.3 | 67.9 | 64.0 | 72.3 | 89.4 | 69.7 | 69.5 |
| 264                        | Pembuatan peralatan elektronik pengguna<br>Manufacture of consumer electronics                                                                                                                                                                                                                                     | 70.2 | 65.7 | 73.0 | 86.1 | 86.0 | 80.3 | 88.6 | 83.4 | 78.5 |
| 265                        | Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam<br>Manufacture of measuring, testing, navigating and control equipment; watches and clocks                                                                                                                                   | 64.8 | 67.0 | 79.5 | 71.5 | 70.9 | 69.0 | 65.5 | 70.6 | 65.8 |
| 266                        | Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik<br>Manufacture of irradiation, electromedical and electrotherapeutic equipment                                                                                                                                                             | 56.9 | 55.2 | 58.4 | 58.5 | 59.8 | 58.3 | 62.8 | 63.8 | 64.9 |
| 267 & 268                  | Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal<br>Manufacture of optical instruments, photographic equipment, magnetic and optical media                                                                                                                                           | 62.2 | 60.8 | 59.3 | 61.6 | 60.4 | 72.7 | 71.7 | 71.0 | 69.2 |
| 271                        | Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik<br>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus                                                                                                    | 74.5 | 78.0 | 81.8 | 81.0 | 80.3 | 77.1 | 78.2 | 79.0 | 77.6 |
| 272                        | Pembuatan bateri dan akumulator<br>Manufacture of batteries and accumulators                                                                                                                                                                                                                                       | 93.3 | 88.5 | 90.9 | 90.5 | 87.6 | 90.6 | 84.5 | 76.8 | 80.8 |
| 273                        | Pembuatan pendawaian dan peranti pendawaian<br>Manufacture of wiring and wiring devices                                                                                                                                                                                                                            | 78.1 | 75.3 | 76.6 | 78.0 | 77.4 | 72.4 | 76.3 | 74.9 | 76.0 |
| 274                        | Pembuatan kelengkapan pencahayaan elektrik<br>Manufacture of electric lighting equipment                                                                                                                                                                                                                           | 65.6 | 60.8 | 64.1 | 69.8 | 71.0 | 63.1 | 70.6 | 66.8 | 65.0 |
| 275                        | Pembuatan perkakasan domestik<br>Manufacture of domestic appliances                                                                                                                                                                                                                                                | 89.1 | 86.9 | 84.3 | 81.3 | 81.3 | 73.3 | 80.6 | 84.8 | 86.1 |
| 279                        | Pembuatan kelengkapan elektrik lain<br>Manufacture of other electrical equipment                                                                                                                                                                                                                                   | 83.5 | 82.7 | 84.1 | 84.2 | 87.3 | 85.7 | 89.3 | 87.0 | 87.5 |
| 281 & 282                  | Pembuatan jentera kegunaan umum dan kegunaan khas<br>Manufacture of general-purpose and special-purpose machinery                                                                                                                                                                                                  | 74.0 | 73.6 | 77.1 | 76.6 | 76.0 | 74.7 | 76.3 | 74.1 | 75.0 |
| 291                        | Pembuatan kenderaan bermotor<br>Manufacture of motor vehicles                                                                                                                                                                                                                                                      | 74.8 | 86.7 | 79.3 | 73.8 | 73.7 | 74.7 | 80.5 | 75.6 | 80.3 |
| 292                        | Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler<br>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers                                                                                                                       | 75.3 | 73.5 | 76.8 | 85.8 | 77.7 | 76.5 | 75.5 | 79.8 | 77.0 |
| 293                        | Pembuatan alat ganti dan aksesori untuk kenderaan bermotor<br>Manufacture of parts and accessories for motor vehicles                                                                                                                                                                                              | 78.1 | 80.2 | 82.3 | 83.0 | 83.6 | 80.9 | 78.1 | 78.2 | 78.2 |
| 301                        | Pembinaan kapal dan bot<br>Building of ships and boats                                                                                                                                                                                                                                                             | 74.5 | 71.3 | 76.4 | 77.7 | 79.9 | 79.8 | 78.0 | 74.6 | 76.2 |
| 302, 303, 304 & 309        | Pembuatan lokomotif keretapi, rolling stock, kapal angkasa dan udara, jentera berkaitan, kenderaan tempur ketenteraan dan kelengkapan pengangkutan t.t.t.l.<br>Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c. | 83.4 | 82.9 | 82.7 | 82.5 | 81.9 | 76.7 | 82.6 | 80.5 | 78.3 |

| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. |
| 72.3 | 72.6 | 74.5 | 79.7 | 72.2 | 67.4 | 52.1 | 70.1 | 76.6 | 73.5 | 71.4 | 68.7 | 70.7 | 72.4 | 66.0 |
| 73.3 | 72.5 | 72.8 | 70.1 | 66.0 | 53.2 | 38.2 | 55.5 | 60.4 | 68.0 | 69.2 | 69.1 | 69.6 | 68.2 | 71.3 |
| 78.4 | 76.2 | 73.0 | 72.9 | 69.7 | 58.0 | 45.9 | 56.7 | 66.3 | 70.4 | 62.0 | 70.3 | 68.1 | 66.9 | 74.0 |
| 79.1 | 76.5 | 77.8 | 78.2 | 76.7 | 62.4 | 55.9 | 72.7 | 73.1 | 74.5 | 75.7 | 76.2 | 77.4 | 76.1 | 76.6 |
| 75.3 | 75.2 | 73.2 | 75.4 | 76.4 | 59.2 | 45.1 | 65.4 | 70.1 | 71.9 | 72.4 | 71.0 | 71.3 | 71.2 | 71.4 |
| 77.0 | 77.6 | 77.3 | 72.7 | 73.5 | 68.0 | 51.6 | 65.5 | 70.0 | 71.6 | 71.7 | 73.4 | 72.0 | 71.9 | 72.4 |
| 75.5 | 75.9 | 76.6 | 75.7 | 76.6 | 63.2 | 49.7 | 66.1 | 71.0 | 74.1 | 70.9 | 77.5 | 74.3 | 74.4 | 75.3 |
| 82.1 | 82.6 | 82.0 | 78.2 | 79.6 | 71.5 | 51.8 | 72.5 | 75.1 | 75.2 | 77.6 | 80.7 | 80.9 | 81.0 | 82.3 |
| 64.7 | 65.4 | 76.4 | 65.9 | 67.8 | 55.8 | 60.1 | 56.2 | 58.9 | 64.6 | 59.1 | 55.0 | 57.8 | 54.0 | 58.4 |
| 81.3 | 68.8 | 76.0 | 80.9 | 77.5 | 61.0 | 47.7 | 66.8 | 78.0 | 79.3 | 78.4 | 81.1 | 80.6 | 79.5 | 81.2 |
| 79.2 | 71.7 | 68.0 | 71.2 | 72.5 | 47.0 | 24.0 | 48.7 | 68.5 | 69.7 | 71.3 | 72.5 | 68.7 | 66.3 | 68.4 |
| 64.3 | 64.1 | 72.0 | 64.5 | 63.5 | 60.5 | 44.6 | 54.6 | 60.5 | 66.7 | 66.7 | 67.2 | 69.4 | 75.8 | 66.9 |
| 63.6 | 64.8 | 60.5 | 73.8 | 77.8 | 70.6 | 46.7 | 62.4 | 65.6 | 68.3 | 66.0 | 72.8 | 73.6 | 70.5 | 74.6 |
| 68.2 | 66.8 | 63.0 | 75.3 | 76.9 | 28.9 | 51.7 | 50.8 | 83.9 | 86.1 | 82.5 | 82.4 | 73.5 | 74.5 | 74.0 |
| 79.9 | 78.0 | 81.6 | 76.9 | 75.7 | 65.3 | 57.9 | 74.1 | 78.9 | 80.4 | 78.5 | 78.0 | 77.2 | 76.1 | 77.9 |
| 76.1 | 83.8 | 66.5 | 74.6 | 71.1 | 42.0 | 31.0 | 50.6 | 60.9 | 69.4 | 76.0 | 77.6 | 76.1 | 75.3 | 68.0 |
| 75.4 | 75.9 | 74.6 | 76.1 | 74.5 | 62.9 | 51.1 | 65.3 | 68.2 | 71.2 | 71.0 | 74.1 | 69.8 | 69.4 | 71.5 |
| 70.1 | 69.1 | 70.6 | 57.9 | 67.9 | 45.0 | 45.0 | 55.6 | 69.6 | 64.8 | 67.3 | 70.8 | 67.3 | 67.2 | 71.3 |
| 91.0 | 87.5 | 88.0 | 84.1 | 80.1 | 62.2 | 31.2 | 68.2 | 63.3 | 75.0 | 73.8 | 73.2 | 75.5 | 72.2 | 69.2 |
| 89.5 | 87.5 | 86.7 | 88.1 | 88.7 | 80.8 | 70.7 | 87.6 | 88.2 | 83.8 | 84.9 | 87.0 | 84.1 | 85.9 | 86.7 |
| 76.9 | 77.1 | 76.4 | 76.3 | 74.3 | 62.4 | 53.8 | 68.5 | 73.1 | 73.2 | 72.7 | 73.5 | 78.3 | 77.7 | 79.2 |
| 84.7 | 82.9 | 71.6 | 67.8 | 66.6 | 66.5 | 15.2 | 44.8 | 64.6 | 67.5 | 69.9 | 71.4 | 70.8 | 69.5 | 71.4 |
| 77.2 | 76.4 | 77.6 | 78.4 | 77.7 | 64.4 | 43.4 | 69.5 | 61.3 | 68.1 | 71.9 | 73.7 | 74.8 | 79.1 | 82.7 |
| 79.0 | 78.0 | 80.3 | 76.1 | 74.9 | 62.3 | 36.9 | 53.9 | 67.3 | 71.9 | 74.6 | 75.3 | 75.5 | 75.4 | 76.3 |
| 68.6 | 70.9 | 72.1 | 76.8 | 74.9 | 75.3 | 42.2 | 52.4 | 59.4 | 59.9 | 61.4 | 63.5 | 64.9 | 64.1 | 65.4 |
| 80.7 | 81.1 | 79.7 | 82.4 | 87.7 | 73.1 | 53.3 | 69.1 | 80.1 | 75.3 | 73.9 | 85.4 | 91.7 | 84.2 | 80.8 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                                                                                           | 2021 |      |      |      |      |      |      |      |      |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|--|
|                            |                                                                                                                                                                                                                                                                                                                    | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |  |
| 231                        | Pembuatan kaca dan produk kaca<br>Manufacture of glass and glass products                                                                                                                                                                                                                                          | 63.8 | 69.6 | 79.6 | 78.3 | 76.0 | 64.8 | 66.1 | 72.3 | 79.5 |  |
| 239                        | Pembuatan pengeluaran galian bukan logam t.t.t.l.<br>Manufacture of non-metallic mineral products n.e.c.                                                                                                                                                                                                           | 70.7 | 70.3 | 73.2 | 73.4 | 67.8 | 53.5 | 57.8 | 62.4 | 67.0 |  |
| 241                        | Pembuatan besi dan keluli asas<br>Manufacture of basic iron and steel                                                                                                                                                                                                                                              | 72.1 | 64.9 | 70.6 | 70.4 | 62.2 | 46.0 | 52.8 | 58.3 | 73.2 |  |
| 242                        | Pembuatan logam asas berharga dan logam bukan ferus lain<br>Manufacture of basic precious and other non-ferrous metals                                                                                                                                                                                             | 77.5 | 76.9 | 80.5 | 80.4 | 78.4 | 70.2 | 66.6 | 70.1 | 76.0 |  |
| 243                        | Pengacuan logam<br>Casting of metals                                                                                                                                                                                                                                                                               | 66.2 | 62.5 | 69.0 | 66.6 | 64.7 | 52.2 | 45.6 | 63.7 | 71.4 |  |
| 251 & 252                  | Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru<br>Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition                                                                                                                        | 76.7 | 76.9 | 78.4 | 77.9 | 75.4 | 72.2 | 73.9 | 76.0 | 76.1 |  |
| 259                        | Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam<br>Manufacture of other fabricated metal products; metal working service activities                                                                                                                                       | 77.5 | 73.0 | 77.5 | 76.0 | 71.0 | 60.7 | 60.9 | 62.7 | 67.5 |  |
| 261                        | Pembuatan komponen dan papan elektronik<br>Manufacture of electronic components and boards                                                                                                                                                                                                                         | 81.9 | 81.2 | 83.0 | 81.4 | 81.2 | 81.4 | 77.5 | 77.4 | 82.0 |  |
| 262                        | Pembuatan komputer dan kelengkapan peranti<br>Manufacture of computers and peripheral equipment                                                                                                                                                                                                                    | 61.6 | 65.8 | 61.9 | 66.0 | 65.3 | 70.6 | 66.9 | 58.0 | 63.8 |  |
| 263                        | Pembuatan peralatan komunikasi<br>Manufacture of communication equipment                                                                                                                                                                                                                                           | 79.5 | 78.1 | 84.8 | 81.2 | 77.7 | 80.3 | 79.3 | 73.1 | 77.8 |  |
| 264                        | Pembuatan peralatan elektronik pengguna<br>Manufacture of consumer electronics                                                                                                                                                                                                                                     | 62.7 | 64.8 | 73.0 | 72.9 | 72.7 | 83.4 | 63.9 | 72.0 | 88.1 |  |
| 265                        | Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam<br>Manufacture of measuring, testing, navigating and control equipment; watches and clocks                                                                                                                                   | 70.0 | 70.1 | 69.8 | 72.1 | 67.2 | 69.5 | 73.5 | 59.5 | 62.1 |  |
| 266                        | Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik<br>Manufacture of irradiation, electromedical and electrotherapeutic equipment                                                                                                                                                             | 65.6 | 69.4 | 63.5 | 66.0 | 69.2 | 64.8 | 63.7 | 66.8 | 70.6 |  |
| 267 & 268                  | Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal<br>Manufacture of optical instruments, photographic equipment, magnetic and optical media                                                                                                                                           | 69.3 | 70.3 | 71.4 | 71.8 | 68.7 | 54.2 | 37.5 | 62.8 | 71.5 |  |
| 271                        | Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik<br>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus                                                                                                    | 72.4 | 76.4 | 79.8 | 78.9 | 75.1 | 75.5 | 67.3 | 73.7 | 79.9 |  |
| 272                        | Pembuatan bateri dan akumulator<br>Manufacture of batteries and accumulators                                                                                                                                                                                                                                       | 88.8 | 51.7 | 93.4 | 89.8 | 91.0 | 82.0 | 72.7 | 91.2 | 80.9 |  |
| 273                        | Pembuatan pendawaian dan peranti pendawaian<br>Manufacture of wiring and wiring devices                                                                                                                                                                                                                            | 70.9 | 74.3 | 71.1 | 71.2 | 73.4 | 69.3 | 66.4 | 70.3 | 74.4 |  |
| 274                        | Pembuatan kelengkapan pencahayaan elektrik<br>Manufacture of electric lighting equipment                                                                                                                                                                                                                           | 71.2 | 66.1 | 69.4 | 70.1 | 61.0 | 54.2 | 54.2 | 66.5 | 69.0 |  |
| 275                        | Pembuatan perkakasan domestik<br>Manufacture of domestic appliances                                                                                                                                                                                                                                                | 72.4 | 79.2 | 79.1 | 80.4 | 78.4 | 65.7 | 61.3 | 66.6 | 77.2 |  |
| 279                        | Pembuatan kelengkapan elektrik lain<br>Manufacture of other electrical equipment                                                                                                                                                                                                                                   | 89.4 | 88.9 | 89.1 | 90.9 | 89.6 | 86.3 | 86.8 | 82.3 | 88.9 |  |
| 281 & 282                  | Pembuatan jentera kegunaan umum dan kegunaan khas<br>Manufacture of general-purpose and special-purpose machinery                                                                                                                                                                                                  | 75.7 | 74.9 | 78.4 | 76.2 | 73.5 | 64.1 | 60.2 | 74.3 | 76.9 |  |
| 291                        | Pembuatan kenderaan bermotor<br>Manufacture of motor vehicles                                                                                                                                                                                                                                                      | 78.9 | 71.7 | 80.2 | 75.9 | 78.6 | 12.4 | 11.0 | 42.8 | 72.3 |  |
| 292                        | Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler<br>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers                                                                                                                       | 61.6 | 58.0 | 59.5 | 60.8 | 62.1 | 57.6 | 55.8 | 62.5 | 72.8 |  |
| 293                        | Pembuatan alat ganti dan aksesori untuk kenderaan bermotor<br>Manufacture of parts and accessories for motor vehicles                                                                                                                                                                                              | 76.5 | 79.0 | 84.9 | 79.8 | 80.4 | 71.5 | 71.0 | 70.9 | 76.1 |  |
| 301                        | Pembinaan kapal dan bot<br>Building of ships and boats                                                                                                                                                                                                                                                             | 62.4 | 59.1 | 67.0 | 67.0 | 70.6 | 67.3 | 71.0 | 79.2 | 74.6 |  |
| 302, 303, 304 & 309        | Pembuatan lokomotif keretapi, rolling stock, kapal angkasa dan udara, jentera berkaitan, kenderaan tempur ketenteraan dan kelengkapan pengangkutan t.t.t.l.<br>Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c. | 85.2 | 81.1 | 86.0 | 82.6 | 78.0 | 75.2 | 53.5 | 45.7 | 67.2 |  |

| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. |
| 80.6 | 80.6 | 75.7 | 85.9 | 82.0 | 89.1 | 85.0 | 88.3 | 87.9 | 83.5 | 89.5 | 89.5 | 80.9 | 79.9 | 79.3 |
| 69.6 | 68.6 | 71.3 | 81.7 | 75.8 | 76.0 | 80.7 | 77.7 | 80.4 | 82.6 | 80.9 | 79.4 | 79.8 | 78.5 | 78.6 |
| 70.9 | 68.0 | 63.6 | 78.1 | 71.9 | 78.7 | 76.7 | 70.8 | 78.3 | 79.6 | 77.7 | 76.3 | 78.5 | 79.7 | 75.5 |
| 82.2 | 82.5 | 81.4 | 84.5 | 77.5 | 82.6 | 79.8 | 79.6 | 75.0 | 80.9 | 82.1 | 77.1 | 71.3 | 73.5 | 71.5 |
| 71.1 | 75.3 | 72.3 | 77.4 | 77.3 | 81.0 | 78.9 | 78.4 | 79.6 | 75.9 | 75.8 | 78.8 | 73.5 | 72.5 | 72.6 |
| 77.3 | 78.4 | 78.5 | 83.2 | 80.5 | 79.5 | 76.2 | 74.5 | 76.8 | 76.3 | 76.6 | 77.8 | 80.9 | 79.2 | 75.0 |
| 71.4 | 70.4 | 71.5 | 81.1 | 76.9 | 81.1 | 81.5 | 72.6 | 78.0 | 77.4 | 76.2 | 77.5 | 79.2 | 78.2 | 79.2 |
| 82.1 | 81.9 | 83.7 | 84.6 | 87.5 | 86.8 | 81.6 | 80.6 | 85.7 | 85.8 | 86.2 | 88.2 | 83.8 | 85.6 | 83.9 |
| 55.5 | 57.7 | 70.6 | 77.7 | 53.6 | 76.9 | 62.1 | 68.6 | 78.5 | 77.3 | 75.1 | 76.6 | 59.1 | 56.9 | 81.9 |
| 75.2 | 75.6 | 75.7 | 77.2 | 78.2 | 79.6 | 74.8 | 79.7 | 79.1 | 76.6 | 66.1 | 84.1 | 75.4 | 77.5 | 83.5 |
| 89.3 | 82.2 | 80.8 | 67.8 | 69.4 | 73.6 | 73.8 | 73.1 | 76.9 | 71.9 | 66.7 | 70.4 | 70.1 | 71.1 | 71.2 |
| 68.1 | 66.6 | 63.4 | 70.2 | 72.2 | 84.8 | 79.3 | 76.8 | 85.4 | 82.6 | 87.6 | 86.9 | 85.5 | 83.4 | 81.8 |
| 71.9 | 71.2 | 75.7 | 78.9 | 77.9 | 87.1 | 82.6 | 76.7 | 85.4 | 69.5 | 87.9 | 84.6 | 87.3 | 79.0 | 83.6 |
| 86.1 | 80.3 | 79.2 | 88.4 | 69.7 | 89.3 | 83.8 | 76.7 | 76.1 | 88.8 | 89.5 | 88.0 | 83.6 | 88.4 | 89.3 |
| 80.3 | 86.2 | 86.0 | 85.2 | 78.6 | 82.8 | 80.7 | 78.1 | 84.1 | 84.8 | 85.7 | 83.1 | 80.6 | 84.3 | 87.4 |
| 90.8 | 90.7 | 66.5 | 68.5 | 68.3 | 93.9 | 95.1 | 83.4 | 85.4 | 87.1 | 79.5 | 77.3 | 65.3 | 74.3 | 94.0 |
| 76.2 | 78.2 | 78.5 | 82.6 | 74.0 | 84.2 | 82.5 | 79.8 | 82.1 | 81.3 | 81.8 | 80.8 | 78.3 | 77.6 | 77.8 |
| 72.8 | 73.6 | 75.8 | 70.0 | 79.8 | 82.8 | 69.8 | 73.9 | 78.4 | 77.2 | 81.6 | 78.3 | 78.8 | 71.8 | 83.0 |
| 84.3 | 82.1 | 78.5 | 88.1 | 81.3 | 80.8 | 73.0 | 69.1 | 78.2 | 91.7 | 92.4 | 88.1 | 90.3 | 89.5 | 90.2 |
| 86.1 | 88.2 | 89.0 | 86.6 | 88.9 | 94.2 | 87.4 | 86.4 | 88.3 | 90.2 | 93.4 | 88.8 | 88.2 | 80.8 | 88.0 |
| 78.5 | 79.8 | 76.9 | 81.8 | 79.7 | 83.5 | 84.3 | 79.3 | 83.2 | 84.6 | 84.6 | 81.4 | 78.7 | 80.0 | 81.7 |
| 82.8 | 74.5 | 73.1 | 76.1 | 89.2 | 82.7 | 76.0 | 79.0 | 77.0 | 76.4 | 86.6 | 90.6 | 81.2 | 85.5 | 61.0 |
| 74.2 | 72.5 | 74.3 | 71.4 | 51.3 | 62.4 | 79.7 | 87.8 | 83.8 | 71.1 | 83.4 | 83.3 | 87.3 | 89.2 | 71.9 |
| 83.3 | 77.4 | 78.4 | 80.3 | 81.3 | 89.7 | 86.6 | 86.6 | 90.5 | 88.8 | 88.8 | 90.6 | 87.2 | 90.9 | 89.8 |
| 68.6 | 71.1 | 66.8 | 77.1 | 67.7 | 82.5 | 72.4 | 71.7 | 82.7 | 80.5 | 87.8 | 54.7 | 66.3 | 61.4 | 93.7 |
| 70.7 | 71.9 | 68.9 | 78.4 | 78.3 | 86.8 | 85.1 | 84.3 | 84.3 | 84.1 | 87.8 | 86.1 | 84.7 | 87.0 | 87.2 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
**Manufacturing Industry Capacity Utilisation by Group - Monthly**

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                                                                                           | 2023 |      |      |      |      |      |      |      |      |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|--|
|                            |                                                                                                                                                                                                                                                                                                                    | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |  |
| 231                        | Pembuatan kaca dan produk kaca<br>Manufacture of glass and glass products                                                                                                                                                                                                                                          | 62.6 | 55.9 | 63.8 | 76.1 | 70.5 | 75.6 | 81.1 | 81.4 | 81.8 |  |
| 239                        | Pembuatan pengeluaran galian bukan logam t.t.t.l.<br>Manufacture of non-metallic mineral products n.e.c.                                                                                                                                                                                                           | 74.9 | 81.7 | 82.9 | 80.9 | 80.6 | 82.6 | 81.5 | 84.2 | 85.5 |  |
| 241                        | Pembuatan besi dan keluli asas<br>Manufacture of basic iron and steel                                                                                                                                                                                                                                              | 74.0 | 80.1 | 83.1 | 81.5 | 78.2 | 77.8 | 77.6 | 81.2 | 82.5 |  |
| 242                        | Pembuatan logam asas berharga dan logam bukan ferus lain<br>Manufacture of basic precious and other non-ferrous metals                                                                                                                                                                                             | 73.3 | 75.8 | 81.6 | 71.6 | 75.3 | 76.4 | 76.3 | 76.9 | 78.4 |  |
| 243                        | Pengacuan logam<br>Casting of metals                                                                                                                                                                                                                                                                               | 77.8 | 81.2 | 82.3 | 74.4 | 74.6 | 76.6 | 73.3 | 75.4 | 72.2 |  |
| 251 & 252                  | Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru<br>Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition                                                                                                                        | 91.7 | 92.5 | 93.1 | 91.8 | 92.5 | 85.5 | 85.0 | 85.0 | 85.8 |  |
| 259                        | Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam<br>Manufacture of other fabricated metal products; metal working service activities                                                                                                                                       | 77.9 | 77.4 | 78.8 | 73.9 | 77.8 | 78.5 | 78.5 | 80.1 | 79.8 |  |
| 261                        | Pembuatan komponen dan papan elektronik<br>Manufacture of electronic components and boards                                                                                                                                                                                                                         | 82.8 | 81.3 | 82.1 | 79.8 | 82.5 | 83.9 | 80.3 | 79.9 | 83.3 |  |
| 262                        | Pembuatan komputer dan kelengkapan peranti<br>Manufacture of computers and peripheral equipment                                                                                                                                                                                                                    | 55.7 | 60.6 | 66.1 | 54.5 | 57.0 | 58.3 | 58.4 | 60.6 | 58.2 |  |
| 263                        | Pembuatan peralatan komunikasi<br>Manufacture of communication equipment                                                                                                                                                                                                                                           | 79.8 | 81.6 | 80.1 | 78.3 | 81.4 | 82.0 | 82.7 | 82.2 | 88.7 |  |
| 264                        | Pembuatan peralatan elektronik pengguna<br>Manufacture of consumer electronics                                                                                                                                                                                                                                     | 78.0 | 79.5 | 78.9 | 83.2 | 81.3 | 86.1 | 80.8 | 82.3 | 86.4 |  |
| 265                        | Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam<br>Manufacture of measuring, testing, navigating and control equipment; watches and clocks                                                                                                                                   | 74.9 | 79.8 | 79.8 | 69.8 | 79.8 | 76.8 | 75.5 | 78.4 | 88.0 |  |
| 266                        | Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik<br>Manufacture of irradiation, electromedical and electrotherapeutic equipment                                                                                                                                                             | 86.9 | 85.5 | 86.6 | 93.1 | 89.9 | 90.8 | 91.8 | 93.0 | 86.4 |  |
| 267 & 268                  | Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal<br>Manufacture of optical instruments, photographic equipment, magnetic and optical media                                                                                                                                           | 87.1 | 81.9 | 91.5 | 79.9 | 88.8 | 83.4 | 83.9 | 87.6 | 88.5 |  |
| 271                        | Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik<br>Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus                                                                                                    | 83.7 | 84.1 | 85.2 | 76.7 | 80.8 | 80.6 | 79.7 | 81.7 | 78.8 |  |
| 272                        | Pembuatan bateri dan akumulator<br>Manufacture of batteries and accumulators                                                                                                                                                                                                                                       | 62.1 | 72.4 | 66.5 | 74.7 | 75.9 | 90.9 | 78.6 | 84.6 | 81.0 |  |
| 273                        | Pembuatan pendawaian dan peranti pendawaian<br>Manufacture of wiring and wiring devices                                                                                                                                                                                                                            | 80.1 | 84.3 | 85.2 | 80.5 | 84.3 | 79.4 | 82.8 | 82.7 | 82.3 |  |
| 274                        | Pembuatan kelengkapan pencahayaan elektrik<br>Manufacture of electric lighting equipment                                                                                                                                                                                                                           | 72.5 | 76.3 | 81.4 | 73.0 | 83.6 | 87.0 | 87.1 | 85.9 | 86.0 |  |
| 275                        | Pembuatan perkakasan domestik<br>Manufacture of domestic appliances                                                                                                                                                                                                                                                | 89.6 | 82.5 | 84.6 | 74.0 | 78.0 | 84.9 | 86.0 | 95.4 | 90.9 |  |
| 279                        | Pembuatan kelengkapan elektrik lain<br>Manufacture of other electrical equipment                                                                                                                                                                                                                                   | 64.0 | 72.0 | 77.7 | 64.2 | 68.4 | 66.4 | 61.8 | 64.1 | 79.3 |  |
| 281 & 282                  | Pembuatan jentera kegunaan umum dan kegunaan khas<br>Manufacture of general-purpose and special-purpose machinery                                                                                                                                                                                                  | 76.9 | 78.0 | 82.9 | 83.2 | 85.4 | 83.6 | 82.7 | 86.1 | 84.1 |  |
| 291                        | Pembuatan kenderaan bermotor<br>Manufacture of motor vehicles                                                                                                                                                                                                                                                      | 83.6 | 87.3 | 91.0 | 71.5 | 91.3 | 87.6 | 83.8 | 84.5 | 83.0 |  |
| 292                        | Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler<br>Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers                                                                                                                       | 62.6 | 71.2 | 68.8 | 69.2 | 61.4 | 71.9 | 84.6 | 86.6 | 71.6 |  |
| 293                        | Pembuatan alat ganti dan aksesori untuk kenderaan bermotor<br>Manufacture of parts and accessories for motor vehicles                                                                                                                                                                                              | 84.4 | 84.7 | 87.3 | 79.2 | 86.4 | 78.1 | 77.8 | 80.3 | 81.1 |  |
| 301                        | Pembinaan kapal dan bot<br>Building of ships and boats                                                                                                                                                                                                                                                             | 67.8 | 71.3 | 65.9 | 71.3 | 64.6 | 71.5 | 59.1 | 65.1 | 69.7 |  |
| 302, 303, 304 & 309        | Pembuatan lokomotif keretapi, rolling stock, kapal angkasa dan udara, jentera berkaitan, kenderaan tempur ketenteraan dan kelengkapan pengangkutan t.t.t.l.<br>Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c. | 85.3 | 83.9 | 92.3 | 80.4 | 80.3 | 85.3 | 91.3 | 89.4 | 89.4 |  |

| Kod Kumpulan<br>Group Code | Keterangan Kumpulan<br>Group Description                                                                                                                                                                                                        | 2017        |             |             |             |             |             |             |             |             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                            |                                                                                                                                                                                                                                                 | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
| 310                        | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 81.7        | 80.9        | 83.6        | 79.2        | 82.0        | 79.5        | 79.8        | 82.3        | 81.6        |
| 321                        | Pembuatan barang kemas, <i>bijouterie</i> dan artikel berkaitan<br><i>Manufacture of jewellery, bijouterie and related articles</i>                                                                                                             | 82.5        | 69.3        | 76.8        | 75.0        | 73.9        | 81.0        | 74.6        | 81.5        | 80.7        |
| 322, 325 & 329             | Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.<br><i>Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.</i>                   | 74.4        | 73.6        | 73.9        | 73.9        | 73.8        | 73.0        | 74.6        | 73.9        | 71.5        |
| 323                        | Pembuatan barangan sukan<br><i>Manufacture of sports goods</i>                                                                                                                                                                                  | 68.4        | 74.7        | 69.1        | 76.7        | 75.2        | 78.4        | 76.9        | 78.3        | 78.7        |
| 324                        | Pembuatan permainan dan mainan<br><i>Manufacture of games and toys</i>                                                                                                                                                                          | 75.0        | 66.1        | 67.7        | 65.4        | 67.3        | 66.1        | 67.3        | 64.5        | 52.9        |
| 331 & 332                  | Pembaikan pemasangan produk logam, jentera dan kelengkapan serta pemasangan jentera perindustrian dan kelengkapan<br><i>Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment</i> | 77.4        | 83.0        | 80.8        | 76.6        | 82.9        | 82.0        | 84.3        | 83.5        | 81.6        |
| <b>Malaysia</b>            |                                                                                                                                                                                                                                                 | <b>79.4</b> | <b>78.5</b> | <b>79.3</b> | <b>76.3</b> | <b>78.0</b> | <b>78.7</b> | <b>80.1</b> | <b>80.3</b> | <b>79.8</b> |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                 | 2017        |             | 2018        |             |             |             |             |             |             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                   |                                                                                                                                                                                                                                                 | Okt.        | Nov.        | Dis.        | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         |
| 310                               | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 81.8        | 83.2        | 81.6        | 80.5        | 78.6        | 80.6        | 79.5        | 80.7        | 80.4        |
| 321                               | Pembuatan barang kemas, <i>bijouterie</i> dan artikel berkaitan<br><i>Manufacture of jewellery, bijouterie and related articles</i>                                                                                                             | 74.7        | 70.1        | 73.7        | 80.9        | 77.0        | 73.1        | 78.2        | 77.1        | 72.6        |
| 322, 325 & 329                    | Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.<br><i>Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.</i>                   | 73.7        | 69.8        | 73.3        | 69.1        | 66.5        | 66.4        | 68.1        | 68.5        | 66.5        |
| 323                               | Pembuatan barangan sukan<br><i>Manufacture of sports goods</i>                                                                                                                                                                                  | 79.0        | 67.4        | 80.4        | 69.3        | 73.5        | 75.6        | 77.1        | 73.5        | 74.2        |
| 324                               | Pembuatan permainan dan mainan<br><i>Manufacture of games and toys</i>                                                                                                                                                                          | 62.8        | 56.7        | 61.4        | 64.1        | 58.2        | 54.6        | 67.7        | 69.1        | 68.0        |
| 331 & 332                         | Pembaikan pemasangan produk logam, jentera dan kelengkapan serta pemasangan jentera perindustrian dan kelengkapan<br><i>Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment</i> | 83.1        | 84.6        | 75.8        | 81.3        | 82.9        | 81.2        | 74.3        | 71.8        | 74.9        |
| <b>Malaysia</b>                   |                                                                                                                                                                                                                                                 | <b>79.7</b> | <b>80.4</b> | <b>79.9</b> | <b>80.2</b> | <b>77.7</b> | <b>81.1</b> | <b>79.7</b> | <b>80.0</b> | <b>78.6</b> |

| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 80.5 | 79.7 | 78.8 | 80.1 | 80.3 | 80.3 | 81.5 | 78.0 | 80.7 | 78.3 | 78.3 | 78.3 | 80.2 | 79.2 | 79.4 |
| 68.9 | 78.0 | 68.9 | 75.6 | 80.3 | 76.0 | 83.5 | 65.1 | 71.8 | 77.8 | 79.0 | 77.5 | 74.6 | 76.0 | 75.2 |
| 69.7 | 69.5 | 68.4 | 67.8 | 73.6 | 68.8 | 71.9 | 69.4 | 72.0 | 74.3 | 74.4 | 70.4 | 72.0 | 77.6 | 74.2 |
| 74.5 | 73.0 | 71.7 | 74.0 | 74.9 | 76.8 | 76.0 | 74.0 | 74.3 | 74.8 | 74.1 | 72.5 | 72.3 | 71.9 | 73.4 |
| 72.4 | 75.9 | 75.1 | 73.8 | 89.7 | 70.5 | 67.5 | 68.3 | 73.7 | 69.6 | 82.2 | 75.6 | 82.5 | 80.5 | 75.0 |
| 76.5 | 75.5 | 76.6 | 76.3 | 73.6 | 74.5 | 66.9 | 70.4 | 69.5 | 68.0 | 69.9 | 70.0 | 71.7 | 70.3 | 71.4 |
| 80.7 | 78.9 | 77.8 | 78.1 | 78.3 | 78.5 | 76.6 | 75.8 | 76.1 | 77.0 | 78.2 | 77.9 | 79.4 | 78.4 | 78.4 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                 | 2019        |             |             | 2020        |             |             |             |             |             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                   |                                                                                                                                                                                                                                                 | Okt.        | Nov.        | Dis.        | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         |
| 310                               | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 81.2        | 81.3        | 82.3        | 80.1        | 79.1        | 68.6        | 29.7        | 57.4        | 66.6        |
| 321                               | Pembuatan barang kemas, <i>bijouterie</i> dan artikel berkaitan<br><i>Manufacture of jewellery, bijouterie and related articles</i>                                                                                                             | 79.1        | 80.8        | 78.9        | 75.6        | 72.3        | 51.9        | 37.7        | 55.9        | 68.4        |
| 322, 325 & 329                    | Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.<br><i>Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.</i>                   | 67.5        | 72.0        | 68.7        | 82.1        | 79.6        | 62.3        | 50.2        | 68.3        | 77.2        |
| 323                               | Pembuatan barangan sukan<br><i>Manufacture of sports goods</i>                                                                                                                                                                                  | 72.6        | 71.8        | 74.3        | 78.3        | 74.6        | 60.7        | 47.6        | 67.1        | 75.8        |
| 324                               | Pembuatan permainan dan mainan<br><i>Manufacture of games and toys</i>                                                                                                                                                                          | 61.9        | 72.2        | 66.1        | 84.4        | 78.1        | 51.4        | 60.0        | 66.9        | 80.2        |
| 331 & 332                         | Pembaikan pemasangan produk logam, jentera dan kelengkapan serta pemasangan jentera perindustrian dan kelengkapan<br><i>Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment</i> | 69.7        | 77.1        | 70.4        | 72.7        | 70.8        | 68.0        | 56.7        | 66.0        | 75.7        |
| <b>Malaysia</b>                   |                                                                                                                                                                                                                                                 | <b>78.8</b> | <b>79.1</b> | <b>78.4</b> | <b>74.6</b> | <b>74.7</b> | <b>64.4</b> | <b>47.7</b> | <b>63.9</b> | <b>70.9</b> |

| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 69.2 | 73.3 | 75.9 | 76.0 | 74.8 | 75.8 | 74.7 | 73.2 | 74.2 | 72.9 | 69.8 | 59.9 | 59.5 | 61.5 | 70.0 |
| 68.5 | 77.6 | 77.2 | 74.8 | 77.0 | 77.2 | 75.5 | 70.6 | 69.9 | 71.7 | 68.2 | 75.9 | 62.5 | 60.4 | 61.2 |
| 80.4 | 79.1 | 79.8 | 76.8 | 74.3 | 77.2 | 75.3 | 75.6 | 78.7 | 77.3 | 75.5 | 64.5 | 70.4 | 72.3 | 75.8 |
| 75.1 | 74.5 | 76.4 | 74.2 | 73.9 | 79.2 | 76.5 | 75.1 | 78.5 | 81.8 | 78.0 | 68.3 | 71.8 | 70.1 | 70.1 |
| 82.5 | 86.5 | 86.1 | 78.1 | 72.2 | 64.4 | 61.6 | 62.1 | 69.1 | 60.8 | 59.4 | 27.0 | 42.1 | 45.5 | 61.5 |
| 70.9 | 74.4 | 74.6 | 73.5 | 71.7 | 71.5 | 78.4 | 72.1 | 70.5 | 72.0 | 70.7 | 67.7 | 62.6 | 67.7 | 70.4 |
| 72.2 | 72.4 | 74.4 | 75.1 | 72.8 | 74.5 | 76.5 | 75.8 | 77.7 | 76.9 | 76.1 | 70.0 | 67.6 | 68.5 | 72.7 |

**2c Kapasiti Penggunaan Industri Pembuatan mengikut Kumpulan - Bulanan**  
*Manufacturing Industry Capacity Utilisation by Group - Monthly*

| Kod Kumpulan<br><i>Group Code</i> | Keterangan Kumpulan<br><i>Group Description</i>                                                                                                                                                                                                 | 2022 |      |      |      |      |      |      |      |      |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
|                                   |                                                                                                                                                                                                                                                 | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  |
| 310                               | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 74.8 | 75.7 | 76.7 | 83.9 | 80.4 | 85.2 | 84.7 | 81.9 | 85.0 |
| 321                               | Pembuatan barang kemas, <i>bijouterie</i> dan artikel berkaitan<br><i>Manufacture of jewellery, bijouterie and related articles</i>                                                                                                             | 64.8 | 69.1 | 68.9 | 84.5 | 61.2 | 83.9 | 67.9 | 80.1 | 84.4 |
| 322, 325 & 329                    | Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.<br><i>Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.</i>                   | 79.6 | 79.1 | 77.1 | 83.1 | 85.3 | 82.6 | 82.1 | 85.8 | 84.4 |
| 323                               | Pembuatan barangan sukan<br><i>Manufacture of sports goods</i>                                                                                                                                                                                  | 74.3 | 75.1 | 77.5 | 89.3 | 93.7 | 92.7 | 93.5 | 93.9 | 97.3 |
| 324                               | Pembuatan permainan dan mainan<br><i>Manufacture of games and toys</i>                                                                                                                                                                          | 72.8 | 71.5 | 56.6 | 75.5 | 78.9 | 72.7 | 74.3 | 77.8 | 77.6 |
| 331 & 332                         | Pembaikan pemasangan produk logam, jentera dan kelengkapan serta pemasangan jentera perindustrian dan kelengkapan<br><i>Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment</i> | 72.5 | 71.5 | 73.5 | 81.8 | 82.4 | 85.1 | 71.2 | 84.9 | 84.6 |
|                                   | Malaysia                                                                                                                                                                                                                                        | 74.5 | 75.2 | 75.7 | 81.3 | 80.2 | 81.7 | 80.4 | 77.4 | 79.1 |

| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 85.1 | 85.8 | 84.5 | 85.7 | 82.8 | 80.6 | 78.4 | 79.7 | 82.7 | 79.8 | 80.2 | 78.0 | 77.2 | 78.5 | 79.3 |
| 77.9 | 85.0 | 82.6 | 87.2 | 81.1 | 81.0 | 89.9 | 79.8 | 89.3 | 85.6 | 91.6 | 82.2 | 89.0 | 79.5 | 81.2 |
| 85.6 | 82.4 | 82.3 | 77.8 | 83.2 | 83.3 | 84.2 | 87.0 | 86.8 | 81.0 | 83.6 | 78.3 | 78.4 | 83.4 | 84.4 |
| 95.3 | 85.3 | 83.4 | 82.2 | 85.0 | 86.5 | 97.9 | 98.4 | 99.3 | 83.7 | 83.8 | 95.2 | 94.6 | 92.4 | 83.3 |
| 79.7 | 79.5 | 81.6 | 66.0 | 75.9 | 67.0 | 74.2 | 77.4 | 81.4 | 73.7 | 82.5 | 72.9 | 71.5 | 69.1 | 72.5 |
| 77.8 | 80.8 | 79.1 | 68.1 | 80.2 | 70.7 | 82.7 | 82.5 | 85.9 | 72.2 | 72.3 | 80.8 | 82.9 | 81.7 | 82.3 |
| 80.9 | 81.2 | 81.7 | 80.1 | 80.4 | 80.2 | 79.3 | 79.2 | 80.8 | 76.5 | 79.0 | 79.2 | 78.6 | 79.6 | 80.0 |

### 3a Kapasiti Penggunaan Industri Pembuatan mengikut Industri Berorientasikan Eksport dan Industri Berorientasikan Domestik - Tahunan

Manufacturing Industry Capacity Utilisation by Export-Oriented Industries and Domestic-Oriented Industries - Yearly

| Bil. No.  | Kod Codes           | Keterangan Description                                                                                                                                                                                                                                  | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|-----------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|           | <b>C</b>            | <b>PEMBUATAN MANUFACTURING</b>                                                                                                                                                                                                                          | <b>80.1</b> | <b>80.2</b> | <b>79.2</b> | <b>79.1</b> | <b>77.8</b> | <b>69.8</b> | <b>73.9</b> | <b>80.4</b> |
| <b>1.</b> |                     | <b>Industri Berorientasikan Eksport Export-Oriented Industries</b>                                                                                                                                                                                      | <b>81.6</b> | <b>82.0</b> | <b>81.2</b> | <b>80.4</b> | <b>78.5</b> | <b>70.4</b> | <b>75.5</b> | <b>80.4</b> |
| 1.1       | 104                 | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                      | 74.3        | 73.8        | 76.0        | 78.7        | 71.3        | 71.1        | 74.9        | 67.4        |
| 1.2       | 13                  | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                     | 80.6        | 86.9        | 71.3        | 69.1        | 69.1        | 65.7        | 73.7        | 85.5        |
| 1.3       | 14                  | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                              | 90.0        | 89.4        | 84.2        | 87.4        | 87.0        | 70.9        | 76.2        | 74.1        |
| 1.4       | 16                  | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 77.0        | 74.2        | 75.1        | 75.4        | 73.9        | 67.6        | 68.9        | 72.6        |
| 1.5       | 19                  | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                | 85.5        | 86.1        | 86.9        | 84.4        | 80.3        | 63.0        | 70.8        | 81.6        |
| 1.6       | 20                  | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical product</i>                                                                                                                                                                | 81.8        | 83.5        | 78.6        | 82.3        | 81.1        | 76.3        | 80.2        | 80.1        |
| 1.7       | 221                 | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                         | 81.0        | 82.3        | 82.3        | 80.1        | 80.3        | 81.9        | 79.1        | 79.4        |
| 1.8       | 222                 | Pembuatan produk plastik<br><i>Manufacture of plastic products</i>                                                                                                                                                                                      | 76.2        | 75.2        | 77.7        | 77.6        | 76.5        | 74.4        | 74.1        | 80.5        |
| 1.9       | 26                  | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                   | 81.2        | 81.6        | 80.7        | 78.9        | 77.1        | 70.5        | 76.9        | 80.1        |
| 1.10      | 27                  | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                            | 77.9        | 76.7        | 80.9        | 80.6        | 80.3        | 71.8        | 77.1        | 82.8        |
| 1.11      | 28                  | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                        | 78.5        | 76.8        | 76.0        | 76.4        | 75.5        | 71.9        | 74.3        | 81.7        |
| 1.12      | 31                  | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                    | 78.0        | 79.4        | 81.4        | 80.0        | 79.9        | 68.8        | 70.2        | 83.8        |
| <b>2.</b> |                     | <b>Industri Berorientasikan Domestik Domestic-Oriented Industries</b>                                                                                                                                                                                   | <b>76.3</b> | <b>75.5</b> | <b>74.2</b> | <b>76.1</b> | <b>76.1</b> | <b>68.2</b> | <b>69.9</b> | <b>80.3</b> |
| 2.1       | 10<br>(Kecuali 104) | Pembuatan produk proses makanan<br><i>Manufacture of food processing products</i>                                                                                                                                                                       | 75.7        | 76.1        | 76.5        | 75.4        | 75.0        | 75.4        | 75.2        | 80.9        |
| 2.2       | 11                  | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                    | 75.4        | 76.7        | 67.3        | 71.9        | 71.4        | 65.3        | 67.3        | 81.5        |
| 2.3       | 12                  | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                     | 73.3        | 73.5        | 73.0        | 65.3        | 76.9        | 59.7        | 61.4        | 84.2        |
| 2.4       | 15                  | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                     | 82.1        | 83.2        | 81.0        | 81.8        | 79.2        | 70.6        | 71.2        | 89.9        |
| 2.5       | 17                  | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                    | 77.3        | 79.9        | 78.2        | 81.0        | 79.1        | 73.9        | 74.2        | 79.3        |
| 2.6       | 18                  | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                    | 78.2        | 76.6        | 77.0        | 76.4        | 77.1        | 69.8        | 70.9        | 82.0        |
| 2.7       | 21                  | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceutical, medicinal chemical and botanical products</i>                                                                                                | 72.3        | 74.7        | 72.4        | 74.6        | 73.3        | 73.7        | 72.4        | 80.0        |
| 2.8       | 23                  | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                   | 74.0        | 75.7        | 72.4        | 72.7        | 72.1        | 64.1        | 67.9        | 80.1        |
| 2.9       | 24                  | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                              | 76.2        | 76.6        | 77.8        | 77.1        | 75.7        | 68.0        | 68.7        | 77.2        |
| 2.10      | 25                  | Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                | 77.4        | 76.0        | 73.8        | 77.1        | 75.8        | 70.8        | 71.1        | 80.1        |
| 2.11      | 29                  | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                | 77.6        | 72.8        | 70.6        | 77.9        | 78.9        | 64.9        | 69.0        | 83.0        |
| 2.12      | 30                  | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                              | 75.2        | 74.6        | 77.7        | 74.8        | 78.5        | 69.6        | 72.0        | 81.3        |
| 2.13      | 32                  | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                            | 76.4        | 75.9        | 76.6        | 73.9        | 76.3        | 72.6        | 71.9        | 76.9        |
| 2.14      | 33                  | Membaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                            | 67.9        | 76.1        | 77.9        | 75.8        | 74.3        | 72.7        | 72.2        | 78.6        |

### 3b Kapasiti Penggunaan Industri Pembuatan mengikut Industri Berorientasikan Eksport dan Industri Berorientasikan Domestik -Suku Tahunan

Manufacturing Industry Capacity Utilisation by Export-Oriented Industries and Domestic-Oriented Industries - Quarterly

| Bil. No.  | Kod Codes           | Keterangan Description                                                                                                                                                                                                                                  | 2017        |             |             |             | 2018        |             |             |
|-----------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|           |                     |                                                                                                                                                                                                                                                         | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          |
|           | <b>C</b>            | <b>PEMBUATAN MANUFACTURING</b>                                                                                                                                                                                                                          | <b>79.1</b> | <b>77.7</b> | <b>80.1</b> | <b>80.0</b> | <b>79.7</b> | <b>79.4</b> | <b>79.1</b> |
| <b>1.</b> |                     | <b>Industri Berorientasikan Eksport Export-Oriented Industries</b>                                                                                                                                                                                      | <b>81.0</b> | <b>79.3</b> | <b>82.5</b> | <b>82.2</b> | <b>81.2</b> | <b>80.7</b> | <b>80.4</b> |
| 1.1       | 104                 | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                      | 68.2        | 79.1        | 78.0        | 78.9        | 76.8        | 75.6        | 78.6        |
| 1.2       | 13                  | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                     | 73.9        | 65.7        | 73.3        | 72.4        | 64.3        | 75.6        | 68.3        |
| 1.3       | 14                  | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                              | 83.0        | 81.2        | 85.3        | 87.4        | 87.4        | 87.5        | 87.4        |
| 1.4       | 16                  | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 75.1        | 73.9        | 74.5        | 76.7        | 74.4        | 74.7        | 76.1        |
| 1.5       | 19                  | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                | 88.6        | 82.8        | 87.8        | 88.4        | 85.8        | 85.9        | 81.8        |
| 1.6       | 20                  | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical product</i>                                                                                                                                                                | 78.2        | 77.4        | 79.4        | 79.5        | 84.0        | 81.0        | 82.2        |
| 1.7       | 221                 | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                         | 82.4        | 81.6        | 82.3        | 83.1        | 81.2        | 79.4        | 80.0        |
| 1.8       | 222                 | Pembuatan produk plastik<br><i>Manufacture of plastic products</i>                                                                                                                                                                                      | 76.4        | 76.9        | 79.4        | 78.0        | 77.8        | 77.5        | 78.5        |
| 1.9       | 26                  | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                   | 79.5        | 79.0        | 82.8        | 81.5        | 79.2        | 79.0        | 80.6        |
| 1.10      | 27                  | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                            | 79.7        | 80.4        | 82.5        | 81.2        | 81.3        | 82.0        | 79.5        |
| 1.11      | 28                  | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                        | 77.9        | 76.2        | 74.4        | 75.5        | 79.2        | 76.4        | 75.6        |
| 1.12      | 31                  | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                    | 82.1        | 80.3        | 81.3        | 82.2        | 79.9        | 80.2        | 79.7        |
| <b>2.</b> |                     | <b>Industri Berorientasikan Domestik Domestic-Oriented Industries</b>                                                                                                                                                                                   | <b>74.2</b> | <b>73.6</b> | <b>74.1</b> | <b>74.8</b> | <b>75.9</b> | <b>76.5</b> | <b>76.0</b> |
| 2.1       | 10<br>(Kecuali 104) | Pembuatan produk proses makanan<br><i>Manufacture of food processing products</i>                                                                                                                                                                       | 76.6        | 77.4        | 76.0        | 76.0        | 75.6        | 75.5        | 73.9        |
| 2.2       | 11                  | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                    | 64.6        | 69.2        | 72.6        | 62.7        | 63.9        | 73.0        | 77.0        |
| 2.3       | 12                  | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                     | 80.0        | 78.5        | 77.2        | 56.2        | 62.4        | 66.3        | 66.6        |
| 2.4       | 15                  | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                     | 83.7        | 81.3        | 79.7        | 79.3        | 80.6        | 83.9        | 83.5        |
| 2.5       | 17                  | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                    | 77.7        | 78.1        | 78.1        | 78.8        | 81.2        | 80.7        | 81.2        |
| 2.6       | 18                  | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                    | 74.6        | 79.0        | 79.1        | 75.4        | 74.9        | 79.2        | 78.7        |
| 2.7       | 21                  | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceutical, medicinal chemical and botanical products</i>                                                                                                | 69.3        | 71.2        | 72.5        | 76.5        | 74.8        | 72.9        | 76.0        |
| 2.8       | 23                  | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                   | 73.5        | 71.6        | 71.3        | 73.1        | 72.7        | 72.4        | 73.8        |
| 2.9       | 24                  | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                              | 78.3        | 75.0        | 79.0        | 79.0        | 77.4        | 76.6        | 77.6        |
| 2.10      | 25                  | Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                | 73.3        | 73.3        | 73.3        | 75.3        | 77.1        | 76.7        | 77.2        |
| 2.11      | 29                  | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                | 70.1        | 70.8        | 69.0        | 72.4        | 77.9        | 80.6        | 74.7        |
| 2.12      | 30                  | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                              | 79.8        | 74.1        | 77.8        | 79.1        | 75.2        | 73.0        | 73.1        |
| 2.13      | 32                  | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                            | 77.6        | 76.2        | 77.5        | 75.0        | 74.3        | 73.7        | 73.0        |
| 2.14      | 33                  | Membaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                            | 76.2        | 78.3        | 78.1        | 79.0        | 78.9        | 75.4        | 76.6        |

### 3b Kapasiti Penggunaan Industri Pembuatan mengikut Industri Berorientasikan Eksport dan Industri Berorientasikan Domestik -Suku Tahunan

Manufacturing Industry Capacity Utilisation by Export-Oriented Industries and Domestic-Oriented Industries - Quarterly

| Bil. No.  | Kod Codes           | Keterangan Description                                                                                                                                                                                                                                  | 2018        | 2019        | 2020        |             |             |             |             |
|-----------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|           |                     |                                                                                                                                                                                                                                                         | Q4          | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          |
|           | <b>C</b>            | <b>PEMBUATAN MANUFACTURING</b>                                                                                                                                                                                                                          | <b>78.3</b> | <b>76.1</b> | <b>77.7</b> | <b>78.8</b> | <b>78.7</b> | <b>71.2</b> | <b>60.8</b> |
| <b>1.</b> |                     | <b>Industri Berorientasikan Eksport Export-Oriented Industries</b>                                                                                                                                                                                      | <b>79.2</b> | <b>76.3</b> | <b>78.4</b> | <b>79.8</b> | <b>79.6</b> | <b>71.7</b> | <b>62.0</b> |
| 1.1       | 104                 | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                      | 83.9        | 72.9        | 73.8        | 71.6        | 66.8        | 71.7        | 78.7        |
| 1.2       | 13                  | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                     | 68.3        | 69.3        | 68.6        | 69.1        | 69.4        | 71.7        | 54.1        |
| 1.3       | 14                  | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                              | 87.5        | 85.3        | 87.0        | 87.6        | 88.3        | 75.8        | 60.8        |
| 1.4       | 16                  | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 76.2        | 74.8        | 74.4        | 73.3        | 73.0        | 67.3        | 62.4        |
| 1.5       | 19                  | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                | 83.9        | 74.4        | 79.8        | 83.5        | 83.7        | 65.7        | 50.9        |
| 1.6       | 20                  | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical product</i>                                                                                                                                                                | 82.0        | 79.8        | 82.2        | 80.6        | 81.8        | 76.1        | 71.6        |
| 1.7       | 221                 | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                         | 79.9        | 79.5        | 79.9        | 80.5        | 81.1        | 80.9        | 80.0        |
| 1.8       | 222                 | Pembuatan produk plastik<br><i>Manufacture of plastic products</i>                                                                                                                                                                                      | 76.6        | 75.4        | 77.1        | 76.2        | 77.4        | 74.0        | 69.7        |
| 1.9       | 26                  | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                   | 76.6        | 75.3        | 76.8        | 79.0        | 77.5        | 71.7        | 61.4        |
| 1.10      | 27                  | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                            | 79.8        | 80.9        | 79.6        | 79.8        | 80.7        | 73.2        | 63.4        |
| 1.11      | 28                  | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                        | 74.4        | 74.6        | 75.6        | 75.0        | 76.6        | 70.7        | 65.1        |
| 1.12      | 31                  | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                    | 80.2        | 80.1        | 78.3        | 79.6        | 81.6        | 75.9        | 51.2        |
| <b>2.</b> |                     | <b>Industri Berorientasikan Domestik Domestic-Oriented Industries</b>                                                                                                                                                                                   | <b>76.2</b> | <b>75.7</b> | <b>75.9</b> | <b>76.3</b> | <b>76.5</b> | <b>70.2</b> | <b>57.9</b> |
| 2.1       | 10<br>(Kecuali 104) | Pembuatan produk proses makanan<br><i>Manufacture of food processing products</i>                                                                                                                                                                       | 76.5        | 75.2        | 75.6        | 75.1        | 74.2        | 73.8        | 73.4        |
| 2.2       | 11                  | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                    | 73.5        | 67.6        | 70.1        | 71.6        | 76.4        | 68.0        | 54.5        |
| 2.3       | 12                  | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                     | 66.0        | 78.1        | 77.4        | 77.2        | 74.8        | 66.8        | 47.9        |
| 2.4       | 15                  | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                     | 79.4        | 75.9        | 79.2        | 79.8        | 82.1        | 72.4        | 61.5        |
| 2.5       | 17                  | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                    | 80.7        | 78.2        | 79.1        | 78.7        | 80.2        | 74.4        | 68.4        |
| 2.6       | 18                  | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                    | 72.8        | 75.5        | 78.6        | 78.2        | 75.9        | 73.8        | 62.9        |
| 2.7       | 21                  | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceutical, medicinal chemical and botanical products</i>                                                                                                | 74.6        | 72.9        | 75.0        | 74.5        | 70.6        | 73.0        | 70.5        |
| 2.8       | 23                  | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                   | 72.1        | 71.8        | 71.6        | 72.0        | 72.9        | 64.4        | 53.3        |
| 2.9       | 24                  | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                              | 76.8        | 73.3        | 75.6        | 77.5        | 76.5        | 69.0        | 60.3        |
| 2.10      | 25                  | Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                | 77.3        | 76.2        | 75.8        | 75.5        | 75.5        | 72.2        | 61.9        |
| 2.11      | 29                  | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                | 78.3        | 80.1        | 77.6        | 78.5        | 79.4        | 68.8        | 46.5        |
| 2.12      | 30                  | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                              | 77.9        | 79.8        | 79.6        | 78.5        | 76.0        | 76.0        | 60.2        |
| 2.13      | 32                  | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                            | 74.6        | 75.1        | 77.4        | 76.0        | 76.6        | 72.0        | 65.9        |
| 2.14      | 33                  | Membaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                            | 72.3        | 71.5        | 72.4        | 74.6        | 78.7        | 73.7        | 66.0        |

| 2021 |      | 2022 |      |      |      | 2023 |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   |
| 73.0 | 74.1 | 76.7 | 74.3 | 69.6 | 75.1 | 81.1 | 79.0 | 81.3 | 80.2 | 79.8 | 78.2 | 79.4 |
| 73.4 | 74.7 | 77.6 | 76.9 | 72.1 | 75.7 | 81.3 | 78.6 | 81.2 | 80.5 | 79.3 | 77.3 | 78.3 |
| 71.5 | 62.4 | 73.4 | 76.6 | 80.7 | 68.8 | 64.7 | 65.8 | 69.1 | 70.3 | 65.9 | 70.2 | 76.2 |
| 68.3 | 68.7 | 78.4 | 75.7 | 68.2 | 72.4 | 86.6 | 83.0 | 87.7 | 84.6 | 74.9 | 77.4 | 76.6 |
| 72.1 | 74.8 | 78.5 | 76.4 | 70.8 | 79.2 | 73.3 | 78.4 | 74.2 | 70.6 | 78.5 | 81.7 | 82.3 |
| 70.3 | 70.1 | 69.0 | 68.3 | 66.6 | 71.7 | 72.6 | 73.5 | 73.5 | 70.8 | 68.4 | 69.3 | 71.9 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |
| 67.0 | 68.3 | 78.7 | 77.3 | 64.2 | 63.2 | 84.4 | 74.7 | 81.6 | 85.7 | 82.2 | 73.4 | 74.1 |
| 77.9 | 79.5 | 81.8 | 78.8 | 78.2 | 81.9 | 81.0 | 80.1 | 79.9 | 79.5 | 80.0 | 81.3 | 81.9 |
| 82.9 | 83.9 | 81.3 | 80.5 | 73.6 | 81.1 | 82.1 | 81.4 | 77.6 | 76.5 | 77.5 | 77.8 | 77.6 |
| 76.5 | 77.5 | 76.2 | 73.2 | 70.9 | 76.3 | 80.0 | 79.7 | 81.4 | 80.7 | 80.4 | 78.7 | 79.3 |
| 73.7 | 75.1 | 76.1 | 77.7 | 75.1 | 78.7 | 80.4 | 79.1 | 81.7 | 79.2 | 78.4 | 78.9 | 79.1 |
| 76.0 | 74.5 | 76.6 | 76.7 | 73.5 | 81.7 | 82.2 | 80.8 | 85.2 | 82.9 | 81.0 | 77.9 | 81.5 |
| 73.0 | 78.9 | 77.5 | 71.4 | 69.6 | 78.7 | 81.7 | 82.3 | 83.1 | 79.8 | 79.9 | 84.4 | 84.3 |
| 72.8 | 75.5 | 74.0 | 67.6 | 63.7 | 75.7 | 83.1 | 83.9 | 85.1 | 83.0 | 80.3 | 79.3 | 78.3 |
| 72.0 | 72.7 | 74.5 | 67.8 | 63.5 | 73.8 | 80.5 | 79.9 | 81.4 | 79.5 | 80.9 | 80.2 | 81.6 |
| 76.8 | 77.7 | 76.1 | 76.0 | 75.3 | 73.5 | 79.1 | 78.8 | 83.9 | 81.9 | 83.8 | 80.6 | 82.9 |
| 67.5 | 71.2 | 66.9 | 62.7 | 64.1 | 75.5 | 83.2 | 80.5 | 81.8 | 80.7 | 77.9 | 80.3 | 80.3 |
| 70.4 | 53.6 | 80.3 | 55.1 | 32.1 | 77.9 | 98.2 | 91.7 | 68.8 | 77.8 | 93.6 | 89.5 | 84.4 |
| 72.8 | 75.7 | 73.2 | 71.4 | 66.9 | 73.4 | 87.7 | 86.9 | 92.4 | 92.8 | 86.1 | 84.0 | 79.9 |
| 75.7 | 77.1 | 77.6 | 75.3 | 70.4 | 73.3 | 82.7 | 79.3 | 78.4 | 76.6 | 77.3 | 76.6 | 77.5 |
| 72.6 | 70.1 | 74.4 | 69.4 | 65.1 | 74.5 | 78.0 | 82.8 | 84.5 | 82.8 | 81.5 | 83.3 | 83.4 |
| 76.0 | 75.1 | 72.9 | 71.2 | 74.4 | 71.2 | 76.7 | 79.8 | 86.4 | 77.0 | 82.8 | 81.0 | 83.5 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |
| 69.1 | 69.7 | 71.4 | 65.8 | 63.6 | 70.9 | 78.9 | 80.6 | 81.8 | 79.1 | 77.4 | 80.4 | 83.4 |
| 70.5 | 72.2 | 72.2 | 65.4 | 64.6 | 72.8 | 78.2 | 76.4 | 78.6 | 75.7 | 78.4 | 77.5 | 79.0 |
| 74.7 | 74.5 | 75.5 | 69.7 | 66.2 | 72.9 | 80.7 | 79.3 | 79.5 | 80.9 | 80.6 | 79.7 | 81.6 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |
| 71.4 | 72.9 | 77.8 | 64.9 | 55.2 | 77.9 | 82.6 | 81.6 | 86.3 | 81.3 | 86.1 | 82.0 | 81.9 |
| 68.8 | 73.4 | 72.8 | 73.1 | 69.4 | 72.4 | 78.1 | 82.0 | 82.3 | 82.8 | 80.0 | 78.8 | 79.5 |
| 77.0 | 75.6 | 75.0 | 71.8 | 68.1 | 72.8 | 75.9 | 75.9 | 77.9 | 77.8 | 80.6 | 79.3 | 81.6 |
| 75.6 | 75.3 | 76.0 | 71.5 | 66.4 | 74.8 | 82.3 | 76.1 | 80.2 | 75.7 | 82.8 | 79.0 | 82.3 |

### 3c Kapasiti Penggunaan Industri Pembuatan mengikut Industri Berorientasikan Eksport dan Industri Berorientasikan Domestik -Bulanan

Manufacturing Industry Capacity Utilisation by Export-Oriented Industries and Domestic-Oriented Industries - Monthly

| Manufacturing Index: Capacity |                                                                                                         |                                                                                                                                                                                                                                                    | Manufacturing Index: Production by Export-Oriented Industries and Domestic-Oriented Industries - Monthly |      |      |      |      |      |      |      |      |
|-------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| Bil. No.                      | Kod Codes                                                                                               | Keterangan Description                                                                                                                                                                                                                             | 2017                                                                                                     |      |      |      |      |      |      |      |      |
|                               |                                                                                                         |                                                                                                                                                                                                                                                    | Jan.                                                                                                     | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 1.                            | C                                                                                                       | PEMBUATAN MANUFACTURING                                                                                                                                                                                                                            | 79.4                                                                                                     | 78.5 | 79.3 | 76.3 | 78.0 | 78.7 | 80.1 | 80.3 | 79.8 |
|                               |                                                                                                         | Industri Berorientasikan Eksport Export-Oriented Industries                                                                                                                                                                                        | 81.1                                                                                                     | 80.7 | 81.3 | 77.5 | 79.4 | 81.0 | 82.0 | 82.7 | 82.7 |
|                               | 1.1                                                                                                     | 104Pembuatan minyak dan lemak daripada sayuran dan haiwan<br>Manufacture of vegetable and animal oils and fats                                                                                                                                     | 65.7                                                                                                     | 66.9 | 72.1 | 81.5 | 79.5 | 76.1 | 77.7 | 77.8 | 78.6 |
|                               | 1.2                                                                                                     | 13Pembuatan tekstil<br>Manufacture of textiles                                                                                                                                                                                                     | 70.9                                                                                                     | 73.7 | 77.1 | 68.1 | 66.1 | 62.8 | 65.3 | 75.3 | 79.4 |
|                               | 1.3                                                                                                     | 14Pembuatan pakaian<br>Manufacture of wearing apparel                                                                                                                                                                                              | 84.7                                                                                                     | 79.7 | 84.7 | 84.6 | 83.7 | 75.4 | 85.0 | 85.5 | 85.4 |
|                               | 1.4                                                                                                     | 16Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials | 76.0                                                                                                     | 74.0 | 75.4 | 75.2 | 75.5 | 71.0 | 74.9 | 75.0 | 73.7 |
|                               | 1.5                                                                                                     | 19Pembuatan kok dan produk petroleum bertapis<br>Manufacture of coke and refined petroleum products                                                                                                                                                | 90.0                                                                                                     | 89.4 | 86.2 | 76.1 | 81.8 | 90.7 | 90.8 | 88.3 | 84.4 |
|                               | 1.6                                                                                                     | 20Pembuatan kimia dan produk kimia<br>Manufacture of chemicals and chemical product                                                                                                                                                                | 79.4                                                                                                     | 77.2 | 77.9 | 75.7 | 75.5 | 81.1 | 78.9 | 78.5 | 80.9 |
|                               | 1.7                                                                                                     | 221Pembuatan produk getah<br>Manufacture of rubber products                                                                                                                                                                                        | 82.1                                                                                                     | 82.1 | 82.9 | 82.3 | 80.9 | 81.5 | 82.6 | 82.4 | 81.9 |
|                               | 1.8                                                                                                     | 222Pembuatan produk plastik<br>Manufacture of plastic products                                                                                                                                                                                     | 75.7                                                                                                     | 75.9 | 77.5 | 76.6 | 76.6 | 77.3 | 78.9 | 80.2 | 79.2 |
|                               | 1.9                                                                                                     | 26Pembuatan komputer, produk elektronik dan optikal<br>Manufacture of computer, electronics and optical products                                                                                                                                   | 78.5                                                                                                     | 79.0 | 81.0 | 78.2 | 80.1 | 78.9 | 80.5 | 83.1 | 84.9 |
|                               | 1.10                                                                                                    | 27Pembuatan kelengkapan elektrik<br>Manufacture of electrical equipment                                                                                                                                                                            | 80.2                                                                                                     | 79.4 | 79.6 | 80.6 | 81.2 | 79.3 | 83.2 | 82.8 | 81.4 |
|                               | 1.11                                                                                                    | 28Pembuatan jentera dan peralatan t.t.t.l.<br>Manufacture of machinery and equipment n.e.c.                                                                                                                                                        | 78.3                                                                                                     | 76.2 | 79.3 | 78.2 | 77.2 | 73.1 | 74.4 | 75.1 | 73.8 |
|                               | 1.12                                                                                                    | 31Pembuatan perabot<br>Manufacture of furniture                                                                                                                                                                                                    | 81.7                                                                                                     | 80.9 | 83.6 | 79.2 | 82.0 | 79.5 | 79.8 | 82.3 | 81.6 |
| 2.                            |                                                                                                         | Industri Berorientasikan Domestik Domestic-Oriented Industries                                                                                                                                                                                     | 75.2                                                                                                     | 73.1 | 74.3 | 73.4 | 74.6 | 72.8 | 75.3 | 74.3 | 72.7 |
|                               | 2.1                                                                                                     | 10 (Kecuali 104)Pembuatan produk prosesan makanan<br>Manufacture of food processing products                                                                                                                                                       | 77.1                                                                                                     | 76.8 | 76.0 | 78.0 | 78.0 | 76.3 | 75.6 | 76.3 | 76.0 |
|                               | 2.2                                                                                                     | 11Pembuatan minuman<br>Manufacture of beverages                                                                                                                                                                                                    | 69.6                                                                                                     | 61.4 | 62.7 | 64.1 | 74.8 | 68.6 | 76.0 | 72.5 | 69.2 |
|                               | 2.3                                                                                                     | 12Pembuatan produk tembakau<br>Manufacture of tobacco products                                                                                                                                                                                     | 70.9                                                                                                     | 84.5 | 84.6 | 84.3 | 75.7 | 75.6 | 80.1 | 71.0 | 80.5 |
|                               | 2.4                                                                                                     | 15Pembuatan produk kulit dan barangan berkaitan<br>Manufacture of leather and related products                                                                                                                                                     | 83.9                                                                                                     | 82.3 | 84.8 | 82.7 | 80.9 | 80.4 | 79.8 | 81.4 | 77.7 |
|                               | 2.5                                                                                                     | 17Pembuatan kertas dan produk kertas<br>Manufacture of paper and paper products                                                                                                                                                                    | 77.6                                                                                                     | 77.1 | 78.3 | 79.1 | 80.3 | 74.9 | 80.1 | 77.0 | 77.2 |
|                               | 2.6                                                                                                     | 18Percetakan dan penerbitan semula media rakaman<br>Printing and reproduction of recorded media                                                                                                                                                    | 74.6                                                                                                     | 74.5 | 74.5 | 82.5 | 75.8 | 78.8 | 78.5 | 82.6 | 76.3 |
|                               | 2.7                                                                                                     | 21Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br>Manufacture of basic pharmaceutical, medicinal chemical and botanical products                                                                                                | 72.9                                                                                                     | 64.3 | 70.6 | 74.2 | 69.0 | 70.4 | 72.0 | 73.4 | 72.2 |
|                               | 2.8                                                                                                     | 23Pembuatan produk galian bukan logam lain<br>Manufacture of other non-metallic mineral products                                                                                                                                                   | 76.3                                                                                                     | 72.8 | 71.5 | 72.6 | 70.6 | 71.6 | 71.4 | 71.7 | 70.7 |
|                               | 2.9                                                                                                     | 24Pembuatan logam asas<br>Manufacture of basic metals                                                                                                                                                                                              | 78.9                                                                                                     | 74.4 | 81.7 | 75.8 | 77.7 | 71.6 | 80.1 | 81.7 | 75.2 |
|                               | 2.10                                                                                                    | 25Pembuatan produk logam, kecuali mesin dan kelengkapan<br>Manufacture of fabricated metal products, except machinery and equipment                                                                                                                | 72.2                                                                                                     | 73.9 | 73.7 | 73.2 | 74.7 | 72.0 | 74.3 | 73.4 | 72.4 |
|                               | 2.11                                                                                                    | 29Pembuatan kenderaan bermotor, treler dan semi treler<br>Manufacture of motor vehicles, trailers and semi-trailers                                                                                                                                | 71.3                                                                                                     | 68.3 | 70.8 | 66.8 | 72.2 | 73.4 | 72.2 | 67.7 | 67.0 |
|                               | 2.12                                                                                                    | 30Pembuatan kelengkapan pengangkutan lain<br>Manufacture of other transport equipment                                                                                                                                                              | 84.6                                                                                                     | 81.9 | 73.0 | 76.9 | 75.3 | 70.2 | 77.3 | 76.9 | 79.1 |
|                               | 2.13                                                                                                    | 32Pembuatan lain<br>Other manufacturing                                                                                                                                                                                                            | 80.9                                                                                                     | 74.2 | 77.7 | 76.0 | 75.5 | 77.0 | 76.2 | 78.5 | 77.8 |
| 2.14                          | 33Membaiki dan pemasangan jentera dan kelengkapan<br>Repair and installation of machinery and equipment | 75.4                                                                                                                                                                                                                                               | 76.7                                                                                                     | 76.6 | 77.4 | 79.7 | 77.6 | 78.3 | 78.7 | 77.3 |      |

| 2018 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. |
| 79.7 | 80.4 | 79.9 | 80.2 | 77.7 | 81.1 | 79.7 | 80.0 | 78.6 | 80.7 | 78.9 | 77.8 | 78.1 | 78.3 | 78.5 |
| 82.5 | 82.3 | 81.7 | 81.4 | 79.3 | 82.8 | 80.8 | 81.2 | 80.0 | 81.7 | 80.0 | 79.6 | 78.7 | 79.2 | 79.6 |
| 81.8 | 75.3 | 79.4 | 80.6 | 69.5 | 80.3 | 81.0 | 76.0 | 69.7 | 78.8 | 79.5 | 77.5 | 85.9 | 84.1 | 81.6 |
| 74.9 | 68.5 | 73.9 | 69.0 | 61.5 | 62.2 | 69.5 | 69.5 | 87.9 | 69.1 | 69.9 | 66.0 | 70.9 | 65.7 | 68.3 |
| 86.7 | 87.0 | 88.4 | 87.6 | 85.6 | 88.9 | 88.0 | 88.3 | 86.0 | 89.1 | 87.4 | 85.8 | 88.3 | 86.2 | 87.9 |
| 77.4 | 75.7 | 76.9 | 76.1 | 70.2 | 77.1 | 75.6 | 75.4 | 73.2 | 76.3 | 76.1 | 76.0 | 76.1 | 76.1 | 76.5 |
| 87.2 | 89.5 | 88.5 | 88.6 | 84.1 | 84.8 | 86.2 | 85.2 | 86.4 | 85.8 | 79.6 | 80.0 | 76.4 | 87.0 | 88.2 |
| 81.5 | 77.9 | 79.1 | 84.2 | 84.4 | 83.4 | 80.2 | 83.3 | 79.4 | 83.4 | 81.7 | 81.6 | 82.2 | 82.2 | 81.6 |
| 83.5 | 82.9 | 82.8 | 82.3 | 79.8 | 81.7 | 79.9 | 79.6 | 78.6 | 80.2 | 80.0 | 79.8 | 80.6 | 79.4 | 79.6 |
| 78.5 | 78.3 | 77.3 | 78.2 | 77.1 | 78.1 | 78.9 | 77.6 | 76.0 | 80.1 | 78.9 | 76.3 | 77.6 | 75.8 | 76.3 |
| 82.2 | 81.9 | 80.5 | 77.7 | 76.4 | 83.5 | 78.9 | 79.9 | 78.2 | 81.0 | 80.8 | 80.1 | 78.8 | 75.5 | 75.5 |
| 82.1 | 81.2 | 80.4 | 81.7 | 80.2 | 82.0 | 83.3 | 82.2 | 80.5 | 79.9 | 79.3 | 79.3 | 81.0 | 79.2 | 79.1 |
| 74.8 | 76.2 | 75.4 | 77.8 | 77.3 | 82.5 | 79.0 | 76.7 | 73.5 | 76.6 | 74.8 | 75.5 | 75.7 | 73.1 | 74.3 |
| 81.8 | 83.2 | 81.6 | 80.5 | 78.6 | 80.6 | 79.5 | 80.7 | 80.4 | 80.5 | 79.7 | 78.8 | 80.1 | 80.3 | 80.3 |
| 72.8 | 75.9 | 75.6 | 77.4 | 73.5 | 76.9 | 77.1 | 77.1 | 75.2 | 78.1 | 76.2 | 73.6 | 76.7 | 75.9 | 75.8 |
| 77.8 | 75.4 | 74.6 | 75.4 | 72.6 | 78.7 | 78.5 | 74.2 | 73.7 | 72.9 | 72.8 | 75.9 | 77.5 | 76.0 | 76.0 |
| 60.9 | 65.1 | 62.2 | 68.0 | 56.0 | 67.8 | 76.1 | 75.2 | 67.7 | 81.7 | 80.7 | 68.6 | 74.8 | 69.7 | 76.0 |
| 53.6 | 53.0 | 62.1 | 56.1 | 67.2 | 63.8 | 65.6 | 66.4 | 66.7 | 66.8 | 66.0 | 67.0 | 66.0 | 65.5 | 66.4 |
| 79.5 | 78.8 | 79.5 | 80.5 | 78.4 | 83.0 | 83.2 | 82.7 | 85.7 | 86.4 | 84.0 | 80.0 | 80.0 | 79.5 | 78.5 |
| 79.0 | 79.5 | 78.0 | 83.1 | 79.2 | 81.2 | 81.9 | 81.4 | 78.9 | 81.6 | 81.6 | 80.5 | 81.6 | 79.8 | 80.8 |
| 77.0 | 75.4 | 73.7 | 72.6 | 72.5 | 79.6 | 76.5 | 81.1 | 79.9 | 81.3 | 80.2 | 74.6 | 74.8 | 69.7 | 74.0 |
| 76.0 | 79.9 | 73.7 | 75.6 | 73.8 | 75.0 | 72.2 | 71.8 | 74.6 | 79.5 | 75.9 | 72.6 | 75.4 | 73.1 | 75.4 |
| 72.6 | 74.2 | 72.5 | 74.2 | 69.6 | 74.5 | 73.8 | 72.7 | 70.7 | 74.4 | 73.8 | 73.2 | 72.9 | 72.3 | 71.0 |
| 78.9 | 79.6 | 78.5 | 78.7 | 73.7 | 79.9 | 78.8 | 77.7 | 73.4 | 79.6 | 77.2 | 76.1 | 79.3 | 73.7 | 77.6 |
| 74.5 | 74.8 | 76.6 | 78.0 | 75.4 | 77.8 | 77.7 | 76.6 | 75.9 | 77.0 | 77.5 | 77.2 | 78.0 | 77.3 | 76.8 |
| 64.1 | 76.3 | 76.7 | 79.9 | 74.3 | 79.6 | 80.9 | 80.6 | 80.3 | 82.6 | 73.9 | 67.7 | 78.0 | 80.7 | 76.1 |
| 77.9 | 80.0 | 79.5 | 79.9 | 77.8 | 67.8 | 68.5 | 77.6 | 72.8 | 71.3 | 76.0 | 72.1 | 73.8 | 79.3 | 80.4 |
| 75.7 | 74.0 | 75.4 | 77.0 | 73.4 | 72.4 | 74.7 | 74.5 | 71.8 | 71.9 | 75.6 | 71.6 | 73.9 | 76.3 | 73.4 |
| 79.5 | 80.0 | 77.5 | 79.6 | 78.8 | 78.3 | 75.5 | 75.1 | 75.7 | 77.5 | 76.4 | 76.0 | 74.5 | 68.9 | 73.5 |

### 3c Kapasiti Penggunaan Industri Pembuatan mengikut Industri Berorientasikan Eksport dan Industri Berorientasikan Domestik -Bulanan

Manufacturing Industry Capacity Utilisation by Export-Oriented Industries and Domestic-Oriented Industries - Monthly

| Bil. No.  | Kod Codes           | Keterangan Description                                                                                                                                                                                                                                  | 2019        |             |             |             |             |             |             |             |             |
|-----------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|           |                     |                                                                                                                                                                                                                                                         | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
|           | <b>C</b>            | <b>PEMBUATAN MANUFACTURING</b>                                                                                                                                                                                                                          | <b>76.6</b> | <b>75.8</b> | <b>76.1</b> | <b>77.0</b> | <b>78.2</b> | <b>77.9</b> | <b>79.4</b> | <b>78.4</b> | <b>78.4</b> |
| <b>1.</b> |                     | <b>Industri Berorientasikan Eksport Export-Oriented Industries</b>                                                                                                                                                                                      | <b>76.8</b> | <b>76.2</b> | <b>76.0</b> | <b>76.8</b> | <b>78.8</b> | <b>79.5</b> | <b>80.5</b> | <b>79.4</b> | <b>79.4</b> |
| 1.1       | 104                 | Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                      | 67.7        | 80.1        | 70.9        | 71.7        | 79.2        | 70.3        | 71.3        | 71.6        | 71.8        |
| 1.2       | 13                  | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                     | 69.8        | 68.4        | 69.9        | 69.9        | 67.9        | 68.1        | 69.2        | 69.2        | 69.0        |
| 1.3       | 14                  | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                              | 86.5        | 82.1        | 87.1        | 86.7        | 88.3        | 86.0        | 89.1        | 87.6        | 86.1        |
| 1.4       | 16                  | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 76.5        | 71.6        | 76.4        | 76.7        | 74.6        | 72.0        | 72.9        | 74.4        | 72.5        |
| 1.5       | 19                  | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                | 73.8        | 77.4        | 71.9        | 72.8        | 80.0        | 86.5        | 83.4        | 82.4        | 84.8        |
| 1.6       | 20                  | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical product</i>                                                                                                                                                                | 79.3        | 82.0        | 77.9        | 80.7        | 83.8        | 82.0        | 81.1        | 79.0        | 81.7        |
| 1.7       | 221                 | Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                         | 79.9        | 79.1        | 79.6        | 79.0        | 80.4        | 80.4        | 80.6        | 81.2        | 79.7        |
| 1.8       | 222                 | Pembuatan produk plastik<br><i>Manufacture of plastic products</i>                                                                                                                                                                                      | 76.5        | 73.6        | 76.0        | 78.1        | 78.2        | 74.9        | 77.4        | 76.0        | 75.4        |
| 1.9       | 26                  | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                   | 76.5        | 73.6        | 75.8        | 76.4        | 76.8        | 77.1        | 80.4        | 79.2        | 77.3        |
| 1.10      | 27                  | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                            | 81.2        | 80.1        | 81.4        | 81.1        | 80.9        | 76.8        | 79.9        | 79.5        | 80.1        |
| 1.11      | 28                  | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                        | 74.0        | 73.2        | 76.7        | 76.7        | 75.6        | 74.7        | 76.1        | 74.0        | 75.1        |
| 1.12      | 31                  | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                    | 81.5        | 78.0        | 80.7        | 78.3        | 78.3        | 78.3        | 80.2        | 79.2        | 79.4        |
| <b>2.</b> |                     | <b>Industri Berorientasikan Domestik Domestic-Oriented Industries</b>                                                                                                                                                                                   | <b>76.1</b> | <b>74.7</b> | <b>76.4</b> | <b>77.4</b> | <b>76.5</b> | <b>73.7</b> | <b>76.8</b> | <b>76.1</b> | <b>75.9</b> |
| 2.1       | 10<br>(Kecuali 104) | Pembuatan produk proses makanan<br><i>Manufacture of food processing products</i>                                                                                                                                                                       | 74.3        | 74.3        | 77.1        | 77.4        | 76.2        | 73.2        | 75.6        | 74.4        | 75.1        |
| 2.2       | 11                  | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                    | 74.3        | 63.4        | 65.2        | 71.6        | 72.7        | 66.1        | 68.8        | 72.6        | 73.5        |
| 2.3       | 12                  | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                     | 77.6        | 77.3        | 79.2        | 90.0        | 69.8        | 72.5        | 74.4        | 80.9        | 76.4        |
| 2.4       | 15                  | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                     | 74.5        | 75.0        | 78.1        | 79.8        | 80.0        | 77.9        | 79.8        | 80.3        | 79.1        |
| 2.5       | 17                  | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                    | 78.9        | 75.8        | 79.9        | 80.4        | 81.5        | 75.4        | 79.2        | 78.1        | 78.8        |
| 2.6       | 18                  | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                    | 75.1        | 75.4        | 76.0        | 80.0        | 77.8        | 78.2        | 77.6        | 80.5        | 76.6        |
| 2.7       | 21                  | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceutical, medicinal chemical and botanical products</i>                                                                                                | 75.8        | 71.7        | 71.4        | 76.1        | 75.4        | 73.6        | 76.1        | 75.7        | 71.9        |
| 2.8       | 23                  | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                   | 72.6        | 69.1        | 73.5        | 73.9        | 72.2        | 68.8        | 73.4        | 72.6        | 70.0        |
| 2.9       | 24                  | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                              | 74.6        | 70.1        | 75.1        | 77.4        | 77.9        | 71.5        | 77.2        | 78.3        | 76.9        |
| 2.10      | 25                  | Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                | 78.2        | 74.2        | 76.2        | 77.6        | 75.4        | 74.5        | 76.1        | 75.2        | 75.1        |
| 2.11      | 29                  | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                | 76.2        | 83.8        | 80.5        | 77.8        | 77.8        | 77.2        | 79.4        | 76.8        | 79.4        |
| 2.12      | 30                  | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                              | 80.9        | 78.1        | 80.4        | 80.8        | 81.0        | 76.9        | 81.1        | 77.9        | 76.7        |
| 2.13      | 32                  | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                            | 79.5        | 71.1        | 74.8        | 78.0        | 78.9        | 75.3        | 75.7        | 75.4        | 77.0        |
| 2.14      | 33                  | Mbaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                              | 69.8        | 73.0        | 71.7        | 72.5        | 72.6        | 72.0        | 74.8        | 73.7        | 75.2        |

| 2020 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. |
| 78.8 | 79.1 | 78.4 | 74.6 | 74.7 | 64.4 | 47.7 | 63.9 | 70.9 | 72.2 | 72.4 | 74.4 | 75.1 | 72.8 | 74.5 |
| 79.4 | 79.9 | 79.7 | 74.6 | 75.3 | 65.0 | 48.9 | 65.3 | 71.7 | 72.5 | 72.9 | 74.8 | 75.9 | 73.2 | 75.0 |
| 68.6 | 66.4 | 65.4 | 65.7 | 68.6 | 80.8 | 76.8 | 79.8 | 79.6 | 76.0 | 69.0 | 69.5 | 64.8 | 61.9 | 60.5 |
| 69.9 | 69.9 | 68.2 | 76.0 | 74.4 | 64.8 | 39.0 | 56.1 | 67.3 | 68.4 | 68.2 | 68.3 | 68.3 | 68.8 | 69.0 |
| 86.6 | 87.5 | 90.8 | 78.4 | 79.9 | 69.1 | 52.4 | 59.7 | 70.3 | 68.9 | 72.9 | 74.4 | 75.0 | 73.4 | 76.0 |
| 74.5 | 72.8 | 71.7 | 70.9 | 71.5 | 59.6 | 55.0 | 61.6 | 70.6 | 70.0 | 70.1 | 70.9 | 69.6 | 70.5 | 70.4 |
| 81.6 | 85.6 | 83.8 | 67.5 | 69.2 | 60.3 | 32.0 | 54.2 | 66.6 | 65.3 | 66.6 | 69.2 | 73.4 | 62.6 | 69.0 |
| 81.4 | 82.6 | 81.4 | 78.1 | 79.3 | 70.8 | 62.8 | 76.5 | 75.6 | 77.9 | 76.2 | 79.8 | 80.8 | 80.3 | 77.4 |
| 80.6 | 81.2 | 81.6 | 82.7 | 82.4 | 77.7 | 80.1 | 78.1 | 81.7 | 82.8 | 82.9 | 83.1 | 83.5 | 83.7 | 84.4 |
| 77.0 | 77.9 | 77.5 | 78.2 | 76.4 | 67.3 | 61.2 | 71.5 | 76.6 | 77.1 | 75.7 | 76.8 | 77.4 | 77.2 | 77.8 |
| 78.2 | 76.6 | 77.8 | 75.0 | 76.1 | 64.2 | 47.9 | 65.1 | 71.3 | 72.7 | 73.4 | 75.1 | 75.1 | 74.3 | 75.9 |
| 81.5 | 80.8 | 79.8 | 78.9 | 77.3 | 63.3 | 49.1 | 69.4 | 71.8 | 75.5 | 75.5 | 76.8 | 75.1 | 74.2 | 74.2 |
| 76.7 | 77.0 | 76.3 | 76.2 | 74.5 | 61.4 | 52.6 | 68.9 | 73.7 | 73.3 | 72.5 | 73.1 | 78.9 | 77.9 | 79.8 |
| 81.2 | 81.3 | 82.3 | 80.1 | 79.1 | 68.6 | 29.7 | 57.4 | 66.6 | 69.2 | 73.3 | 75.9 | 76.0 | 74.8 | 75.8 |
| 77.1 | 77.1 | 75.4 | 74.4 | 73.3 | 62.9 | 44.2 | 60.3 | 69.1 | 71.5 | 71.1 | 73.5 | 72.8 | 71.9 | 73.5 |
| 73.0 | 74.1 | 75.3 | 76.1 | 75.2 | 70.0 | 68.5 | 74.0 | 77.7 | 74.5 | 78.3 | 77.5 | 78.3 | 77.1 | 77.6 |
| 75.9 | 76.2 | 77.1 | 71.4 | 73.6 | 58.9 | 49.8 | 50.9 | 62.9 | 65.0 | 66.6 | 71.0 | 72.0 | 70.2 | 71.2 |
| 77.4 | 75.6 | 71.5 | 73.9 | 72.5 | 54.0 | 1.6  | 73.6 | 68.6 | 76.0 | 73.2 | 62.1 | 53.4 | 52.1 | 55.4 |
| 82.1 | 80.6 | 83.4 | 79.0 | 76.5 | 61.6 | 44.0 | 67.8 | 72.7 | 73.9 | 71.9 | 72.7 | 71.8 | 77.2 | 78.0 |
| 79.7 | 81.2 | 79.7 | 78.5 | 78.6 | 66.1 | 61.8 | 68.1 | 75.2 | 75.9 | 74.5 | 76.6 | 77.2 | 77.0 | 77.0 |
| 74.1 | 77.0 | 76.6 | 73.6 | 76.4 | 71.4 | 47.3 | 64.9 | 76.4 | 75.3 | 71.1 | 71.3 | 70.8 | 69.5 | 70.0 |
| 72.3 | 72.1 | 67.5 | 76.2 | 73.5 | 69.2 | 69.4 | 68.6 | 73.6 | 73.4 | 77.1 | 77.6 | 76.0 | 72.0 | 77.5 |
| 73.1 | 72.5 | 73.0 | 71.4 | 66.8 | 55.1 | 40.2 | 57.4 | 62.5 | 68.7 | 69.5 | 69.1 | 69.8 | 68.7 | 70.7 |
| 78.5 | 76.3 | 74.7 | 74.9 | 72.5 | 59.5 | 49.3 | 62.7 | 68.8 | 71.9 | 67.3 | 72.4 | 71.5 | 70.3 | 74.7 |
| 75.0 | 75.6 | 75.9 | 75.6 | 76.7 | 64.2 | 49.2 | 65.0 | 71.3 | 74.5 | 72.5 | 77.3 | 74.2 | 74.1 | 75.1 |
| 82.2 | 80.7 | 75.3 | 71.4 | 70.3 | 64.8 | 24.7 | 49.1 | 65.6 | 69.3 | 71.9 | 73.0 | 72.8 | 72.1 | 73.7 |
| 75.1 | 76.6 | 76.3 | 80.1 | 79.0 | 68.8 | 47.1 | 61.4 | 72.1 | 66.8 | 66.9 | 72.8 | 77.6 | 72.0 | 70.6 |
| 75.2 | 78.8 | 75.7 | 77.8 | 75.2 | 62.9 | 56.5 | 67.3 | 73.9 | 74.7 | 78.2 | 78.2 | 75.2 | 75.0 | 76.5 |
| 75.1 | 83.8 | 77.4 | 77.8 | 74.5 | 68.9 | 51.3 | 66.7 | 79.8 | 72.0 | 78.2 | 76.4 | 74.9 | 75.9 | 75.3 |

### 3c Kapasiti Penggunaan Industri Pembuatan mengikut Industri Berorientasikan Eksport dan Industri Berorientasikan Domestik -Bulanan

Manufacturing Industry Capacity Utilisation by Export-Oriented Industries and Domestic-Oriented Industries - Monthly

| Bil. No. | Kod Codes | Keterangan Description                                                                                                                                                                                                                                     | 2021 |      |      | 2021 |      |      |      |      |      |
|----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
|          |           |                                                                                                                                                                                                                                                            | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 1.       | C         | <b>PEMBUATAN MANUFACTURING</b>                                                                                                                                                                                                                             | 76.5 | 75.8 | 77.7 | 76.9 | 76.1 | 70.0 | 67.6 | 68.5 | 72.7 |
|          |           | <b>Industri Berorientasikan Eksport Export-Oriented Industries</b>                                                                                                                                                                                         | 77.2 | 77.3 | 78.2 | 77.5 | 77.7 | 75.4 | 72.2 | 70.8 | 73.1 |
|          | 1.1       | 104 Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                     | 68.9 | 69.0 | 82.2 | 81.7 | 70.6 | 77.5 | 81.4 | 79.1 | 81.6 |
|          | 1.2       | 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                     | 75.3 | 81.9 | 77.9 | 80.5 | 76.6 | 70.0 | 70.3 | 64.9 | 69.6 |
|          | 1.3       | 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                              | 80.4 | 76.7 | 78.4 | 79.5 | 78.9 | 70.7 | 69.2 | 71.4 | 71.9 |
|          | 1.4       | 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 68.5 | 68.5 | 69.9 | 69.6 | 70.7 | 64.7 | 63.8 | 67.3 | 68.6 |
|          | 1.5       | 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                | 78.8 | 79.2 | 78.0 | 78.0 | 79.1 | 74.7 | 74.3 | 64.5 | 53.8 |
|          | 1.6       | 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical product</i>                                                                                                                                                                | 82.9 | 82.5 | 80.0 | 78.2 | 82.2 | 76.1 | 76.6 | 75.9 | 82.3 |
|          | 1.7       | 221 Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                        | 81.7 | 79.2 | 82.9 | 82.3 | 81.6 | 77.6 | 73.5 | 71.2 | 76.0 |
|          | 1.8       | 222 Pembuatan produk plastik<br><i>Manufacture of plastic products</i>                                                                                                                                                                                     | 75.4 | 75.8 | 77.3 | 75.8 | 72.8 | 70.9 | 67.6 | 70.0 | 75.2 |
|          | 1.9       | 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                   | 75.1 | 75.5 | 77.7 | 77.2 | 76.7 | 79.3 | 73.3 | 72.7 | 79.4 |
|          | 1.10      | 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                            | 75.4 | 75.5 | 79.0 | 79.0 | 78.1 | 73.0 | 68.3 | 73.6 | 78.6 |
|          | 1.11      | 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                        | 76.7 | 76.2 | 79.5 | 76.8 | 73.8 | 63.6 | 57.7 | 74.0 | 77.0 |
| 2.       | 31        | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                       | 74.7 | 73.2 | 74.2 | 72.9 | 69.8 | 59.9 | 59.5 | 61.5 | 70.0 |
|          |           | <b>Industri Berorientasikan Domestik Domestic-Oriented Industries</b>                                                                                                                                                                                      | 74.9 | 72.0 | 76.6 | 75.2 | 72.1 | 56.1 | 56.1 | 62.5 | 71.7 |
|          | 2.1       | 10 (Kecuali 104) Pembuatan produk prosesan makanan<br><i>Manufacture of food processing products</i>                                                                                                                                                       | 76.2 | 73.6 | 78.3 | 76.4 | 75.3 | 76.2 | 76.0 | 74.9 | 74.9 |
|          | 2.2       | 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                    | 69.6 | 61.9 | 69.1 | 68.4 | 61.6 | 58.0 | 57.3 | 61.1 | 74.0 |
|          | 2.3       | 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                     | 78.4 | 81.1 | 81.4 | 76.3 | 79.3 | 9.7  | 8.8  | 9.9  | 77.6 |
|          | 2.4       | 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                     | 73.1 | 72.1 | 74.4 | 75.3 | 73.3 | 65.5 | 65.2 | 61.7 | 73.6 |
|          | 2.5       | 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                    | 79.7 | 75.1 | 78.1 | 76.8 | 75.5 | 73.7 | 70.8 | 68.4 | 71.9 |
|          | 2.6       | 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                    | 72.5 | 73.6 | 77.1 | 73.8 | 68.9 | 65.6 | 62.4 | 65.9 | 67.2 |
|          | 2.7       | 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceutical, medicinal chemical and botanical products</i>                                                                                                | 72.1 | 74.1 | 72.4 | 75.0 | 69.8 | 68.9 | 72.3 | 74.3 | 76.7 |
|          | 2.8       | 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                   | 70.0 | 70.2 | 73.9 | 74.0 | 68.7 | 54.8 | 58.8 | 63.5 | 68.5 |
|          | 2.9       | 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                              | 73.7 | 68.9 | 73.9 | 73.7 | 67.9 | 54.6 | 57.2 | 62.6 | 74.1 |
|          | 2.10      | 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                | 76.1 | 73.3 | 77.2 | 76.0 | 71.0 | 62.1 | 63.4 | 66.0 | 69.3 |
|          | 2.11      | 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                | 77.5 | 74.4 | 81.6 | 77.2 | 78.9 | 38.6 | 37.0 | 54.7 | 73.8 |
|          | 2.12      | 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                              | 73.6 | 68.4 | 76.6 | 76.5 | 74.5 | 68.4 | 62.1 | 71.8 | 74.4 |
|          | 2.13      | 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                            | 76.1 | 73.9 | 75.1 | 74.6 | 72.1 | 68.8 | 68.3 | 67.4 | 68.6 |
|          | 2.14      | 33 Membaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                            | 80.2 | 75.6 | 72.3 | 74.0 | 72.7 | 67.7 | 59.7 | 67.4 | 72.1 |

| 2022 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. |
| 74.5 | 75.2 | 75.7 | 81.3 | 80.2 | 81.7 | 80.4 | 77.4 | 79.1 | 80.9 | 81.2 | 81.7 | 80.1 | 80.4 | 80.2 |
| 74.3 | 75.9 | 76.8 | 81.6 | 80.8 | 81.5 | 80.8 | 76.8 | 78.2 | 80.8 | 80.9 | 81.9 | 80.0 | 80.3 | 81.1 |
| 71.9 | 69.2 | 65.3 | 66.2 | 62.6 | 65.1 | 59.1 | 69.6 | 68.7 | 67.9 | 70.5 | 68.7 | 71.6 | 74.1 | 65.2 |
| 71.9 | 72.5 | 72.8 | 88.1 | 84.8 | 86.8 | 84.5 | 80.7 | 83.8 | 85.8 | 86.1 | 91.4 | 85.4 | 84.7 | 83.6 |
| 77.3 | 79.7 | 80.5 | 73.1 | 70.8 | 76.0 | 78.5 | 80.8 | 75.8 | 77.5 | 72.0 | 73.2 | 68.8 | 69.5 | 73.6 |
| 73.6 | 72.6 | 69.0 | 71.8 | 70.7 | 75.3 | 73.8 | 72.2 | 74.4 | 71.8 | 75.2 | 73.4 | 72.6 | 70.0 | 69.7 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 57.3 | 64.6 | 67.7 | 85.7 | 90.8 | 76.8 | 86.4 | 71.6 | 66.2 | 79.8 | 80.1 | 85.0 | 84.7 | 86.4 | 85.9 |
| 81.6 | 83.4 | 80.8 | 81.1 | 77.7 | 84.3 | 82.1 | 79.7 | 78.5 | 80.8 | 82.5 | 76.4 | 81.2 | 80.0 | 77.4 |
| 79.5 | 82.1 | 81.7 | 83.3 | 80.4 | 82.6 | 83.0 | 80.4 | 80.7 | 77.3 | 78.9 | 76.5 | 78.3 | 76.4 | 74.7 |
| 78.0 | 75.9 | 74.9 | 80.6 | 77.9 | 81.5 | 79.7 | 78.5 | 80.9 | 80.7 | 81.1 | 82.5 | 81.9 | 80.0 | 80.3 |
| 78.6 | 77.5 | 80.1 | 79.9 | 78.5 | 82.8 | 77.1 | 77.4 | 82.8 | 81.4 | 80.3 | 83.3 | 77.7 | 78.5 | 81.5 |
| 81.3 | 83.2 | 80.5 | 83.3 | 78.1 | 85.2 | 81.5 | 78.1 | 82.7 | 85.8 | 86.2 | 83.5 | 81.4 | 81.7 | 85.6 |
| 78.8 | 80.3 | 77.0 | 82.7 | 79.0 | 83.4 | 84.5 | 79.4 | 83.1 | 84.5 | 84.6 | 80.4 | 77.6 | 80.4 | 81.4 |
| 74.8 | 75.7 | 76.7 | 83.9 | 80.4 | 85.2 | 84.7 | 81.9 | 85.0 | 85.1 | 85.8 | 84.5 | 85.7 | 82.8 | 80.6 |
| 74.9 | 73.5 | 73.1 | 80.6 | 78.8 | 82.1 | 79.3 | 79.0 | 81.3 | 81.1 | 81.9 | 81.3 | 80.2 | 80.5 | 77.8 |
| 74.3 | 71.8 | 74.3 | 82.4 | 73.6 | 81.2 | 71.3 | 81.6 | 83.6 | 84.7 | 84.8 | 82.3 | 82.2 | 80.8 | 82.7 |
| 74.3 | 78.3 | 73.8 | 87.9 | 80.5 | 81.1 | 81.1 | 80.8 | 79.5 | 82.6 | 82.4 | 80.4 | 79.9 | 78.8 | 83.5 |
| 80.8 | 81.0 | 72.0 | 97.9 | 99.1 | 97.7 | 79.1 | 99.3 | 96.8 | 74.3 | 54.6 | 77.6 | 77.5 | 56.5 | 99.6 |
| 73.9 | 74.1 | 72.1 | 90.0 | 83.9 | 89.2 | 85.0 | 82.9 | 92.7 | 90.7 | 94.3 | 92.3 | 92.1 | 92.9 | 93.3 |
| 70.7 | 73.7 | 75.5 | 83.6 | 80.0 | 84.5 | 80.3 | 76.8 | 80.9 | 79.5 | 78.1 | 77.6 | 77.9 | 75.4 | 76.5 |
| 75.1 | 74.1 | 74.4 | 75.9 | 77.3 | 80.9 | 81.8 | 80.7 | 85.9 | 83.3 | 85.2 | 85.0 | 82.2 | 83.5 | 82.6 |
| 69.8 | 72.4 | 71.3 | 78.6 | 71.1 | 80.4 | 78.5 | 76.3 | 84.6 | 86.7 | 88.2 | 84.2 | 82.2 | 79.2 | 69.5 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 70.8 | 70.0 | 71.9 | 82.3 | 76.6 | 77.7 | 81.2 | 79.1 | 81.4 | 82.7 | 82.0 | 80.7 | 80.0 | 78.7 | 78.7 |
| 74.8 | 73.3 | 70.2 | 80.2 | 74.1 | 80.2 | 77.8 | 74.2 | 77.2 | 79.9 | 79.1 | 76.7 | 75.8 | 77.2 | 74.0 |
| 72.6 | 72.6 | 73.5 | 81.4 | 78.1 | 82.6 | 81.8 | 76.1 | 79.9 | 80.2 | 78.9 | 79.4 | 81.5 | 81.0 | 80.2 |
| 82.8 | 75.6 | 75.3 | 77.7 | 85.2 | 85.0 | 80.3 | 82.2 | 82.5 | 81.2 | 87.4 | 90.4 | 83.7 | 87.7 | 72.6 |
| 71.7 | 74.2 | 71.3 | 77.0 | 75.0 | 82.3 | 79.7 | 82.0 | 84.3 | 84.9 | 88.9 | 73.2 | 79.8 | 77.0 | 91.6 |
| 72.4 | 73.4 | 72.7 | 78.9 | 72.6 | 76.2 | 70.1 | 79.1 | 78.4 | 77.7 | 78.4 | 77.6 | 76.9 | 77.2 | 79.4 |
| 76.2 | 73.2 | 74.9 | 81.6 | 80.9 | 84.4 | 59.4 | 84.6 | 84.3 | 78.3 | 81.4 | 81.0 | 76.1 | 82.6 | 68.3 |

### 3c Kapasiti Penggunaan Industri Pembuatan mengikut Industri Berorientasikan Eksport dan Industri Berorientasikan Domestik -Bulanan

Manufacturing Industry Capacity Utilisation by Export-Oriented Industries and Domestic-Oriented Industries - Monthly

| Bil. No. | Kod Codes | Keterangan Description                                                                                                                                                                                                                                     | 2023        |             |             |             |             |             |             |             |             |
|----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|          |           |                                                                                                                                                                                                                                                            | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
| 1.       | C         | <b>PEMBUATAN MANUFACTURING</b>                                                                                                                                                                                                                             | <b>79.3</b> | <b>79.2</b> | <b>80.8</b> | <b>76.5</b> | <b>79.0</b> | <b>79.2</b> | <b>78.6</b> | <b>79.6</b> | <b>80.0</b> |
|          |           | <b>Industri Berorientasikan Eksport Export-Oriented Industries</b>                                                                                                                                                                                         | <b>79.5</b> | <b>78.5</b> | <b>80.0</b> | <b>75.6</b> | <b>77.9</b> | <b>78.4</b> | <b>77.6</b> | <b>78.5</b> | <b>78.8</b> |
|          | 1.1       | 104 Pembuatan minyak dan lemak daripada sayuran dan haiwan<br><i>Manufacture of vegetable and animal oils and fats</i>                                                                                                                                     | 64.8        | 67.3        | 65.7        | 66.3        | 73.0        | 71.4        | 74.6        | 75.7        | 78.3        |
|          | 1.2       | 13 Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                                     | 69.9        | 75.7        | 79.0        | 75.9        | 76.0        | 80.2        | 76.6        | 77.0        | 76.2        |
|          | 1.3       | 14 Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                              | 78.6        | 73.7        | 83.1        | 81.6        | 81.4        | 82.2        | 81.1        | 82.4        | 83.3        |
|          | 1.4       | 16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 67.9        | 68.3        | 68.9        | 68.5        | 70.5        | 68.9        | 69.9        | 72.8        | 73.1        |
|          | 1.5       | 19 Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                                | 85.9        | 79.4        | 81.4        | 72.8        | 73.5        | 74.0        | 74.4        | 74.6        | 73.4        |
|          | 1.6       | 20 Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical product</i>                                                                                                                                                                | 79.7        | 80.4        | 79.9        | 79.4        | 82.1        | 82.4        | 82.3        | 83.1        | 80.3        |
|          | 1.7       | 221 Pembuatan produk getah<br><i>Manufacture of rubber products</i>                                                                                                                                                                                        | 77.0        | 76.3        | 79.1        | 75.2        | 77.9        | 80.4        | 77.7        | 78.0        | 77.1        |
|          | 1.8       | 222 Pembuatan produk plastik<br><i>Manufacture of plastic products</i>                                                                                                                                                                                     | 79.9        | 80.4        | 80.9        | 76.7        | 80.5        | 78.9        | 79.0        | 80.2        | 78.7        |
|          | 1.9       | 26 Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                                   | 77.9        | 78.2        | 79.3        | 77.0        | 79.0        | 80.8        | 77.9        | 78.3        | 81.2        |
|          | 1.10      | 27 Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                            | 79.3        | 81.1        | 82.4        | 74.9        | 78.8        | 80.1        | 79.2        | 82.5        | 82.6        |
|          | 1.11      | 28 Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                        | 77.6        | 78.6        | 83.5        | 83.9        | 85.8        | 83.6        | 82.7        | 86.1        | 84.1        |
| 2.       | 31        | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                                       | 78.4        | 79.7        | 82.7        | 79.8        | 80.2        | 78.0        | 77.2        | 78.5        | 79.3        |
|          |           | <b>Industri Berorientasikan Domestik Domestic-Oriented Industries</b>                                                                                                                                                                                      | <b>78.8</b> | <b>80.9</b> | <b>83.1</b> | <b>78.6</b> | <b>81.3</b> | <b>80.8</b> | <b>80.5</b> | <b>81.9</b> | <b>82.5</b> |
|          | 2.1       | 10 (Kecuali 104) Pembuatan produk proses makanan<br><i>Manufacture of food processing products</i>                                                                                                                                                         | 84.5        | 82.0        | 84.9        | 79.2        | 81.3        | 81.2        | 81.9        | 83.3        | 83.6        |
|          | 2.2       | 11 Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                                    | 79.0        | 77.3        | 77.3        | 78.3        | 82.5        | 80.0        | 80.1        | 80.2        | 80.5        |
|          | 2.3       | 12 Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                                     | 92.7        | 91.5        | 96.8        | 92.9        | 93.4        | 82.3        | 82.0        | 81.7        | 89.4        |
|          | 2.4       | 15 Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                                     | 91.0        | 83.1        | 84.2        | 83.0        | 85.3        | 83.6        | 79.1        | 79.2        | 81.4        |
|          | 2.5       | 17 Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                                    | 74.6        | 77.3        | 79.9        | 76.5        | 75.6        | 77.6        | 77.0        | 77.4        | 78.0        |
|          | 2.6       | 18 Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                                    | 81.3        | 82.6        | 80.6        | 82.8        | 83.8        | 83.2        | 82.9        | 83.4        | 83.8        |
|          | 2.7       | 21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceutical, medicinal chemical and botanical products</i>                                                                                                | 79.6        | 85.8        | 83.1        | 80.7        | 80.6        | 81.6        | 81.2        | 83.5        | 85.8        |
|          | 2.8       | 23 Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                                   | 73.3        | 78.4        | 80.4        | 80.3        | 79.3        | 81.7        | 81.4        | 83.8        | 85.1        |
|          | 2.9       | 24 Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                              | 73.9        | 78.7        | 82.5        | 78.0        | 77.1        | 77.3        | 76.9        | 79.5        | 80.6        |
|          | 2.10      | 25 Pembuatan produk logam, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                                                | 80.0        | 80.2        | 81.6        | 77.5        | 80.5        | 81.1        | 80.9        | 81.9        | 82.0        |
|          | 2.11      | 29 Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                                | 83.4        | 85.9        | 89.0        | 74.8        | 88.3        | 82.9        | 81.2        | 82.7        | 81.8        |
|          | 2.12      | 30 Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                              | 79.6        | 79.9        | 80.3        | 80.2        | 76.6        | 79.6        | 77.8        | 79.4        | 81.3        |
|          | 2.13      | 32 Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                            | 80.2        | 78.8        | 82.7        | 77.2        | 81.5        | 79.1        | 81.2        | 81.1        | 82.4        |
|          | 2.14      | 33 Membaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                            | 82.5        | 81.9        | 83.9        | 78.1        | 78.0        | 80.8        | 82.9        | 81.7        | 82.3        |

**4a Kapasiti Penggunaan Industri Pembuatan mengikut Negeri - Tahunan**  
*Manufacturing Industry Capacity Utilisation by State - Yearly*

| Negeri<br>State                                                  | 2015        | 2016        | 2017        | 2018        | 2019        | 2020        | 2021        | 2022        |
|------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Johor                                                            | 80.2        | 78.5        | 77.3        | 79.6        | 78.6        | 71.3        | 74.0        | 81.2        |
| Kedah                                                            | 89.8        | 86.1        | 85.2        | 86.2        | 87.5        | 78.5        | 81.6        | 85.2        |
| Kelantan                                                         | 71.7        | 73.9        | 71.1        | 72.9        | 74.4        | 70.5        | 73.4        | 79.4        |
| Melaka                                                           | 84.9        | 90.7        | 90.3        | 91.1        | 75.2        | 56.9        | 70.9        | 83.2        |
| Negeri Sembilan                                                  | 77.5        | 76.6        | 77.0        | 73.9        | 76.7        | 69.7        | 70.4        | 84.8        |
| Pahang                                                           | 79.8        | 80.1        | 78.2        | 82.1        | 80.7        | 76.3        | 78.3        | 77.4        |
| Pulau Pinang                                                     | 77.6        | 80.3        | 79.5        | 79.1        | 77.6        | 72.0        | 75.0        | 76.8        |
| Perak                                                            | 72.0        | 74.3        | 71.4        | 70.6        | 70.8        | 70.4        | 72.6        | 76.3        |
| Perlis                                                           | 82.5        | 84.3        | 76.1        | 82.0        | 71.5        | 62.5        | 71.2        | 75.7        |
| Selangor                                                         | 77.8        | 76.5        | 75.9        | 75.7        | 75.8        | 68.9        | 72.5        | 81.3        |
| Terengganu                                                       | 88.8        | 91.0        | 86.3        | 86.1        | 91.5        | 78.7        | 84.7        | 80.4        |
| Sabah                                                            | 73.1        | 73.7        | 72.7        | 74.1        | 74.8        | 68.0        | 70.8        | 72.1        |
| Sarawak                                                          | 84.8        | 82.5        | 83.3        | 80.3        | 79.5        | 68.9        | 73.3        | 77.7        |
| Wilayah Persekutuan Kuala Lumpur & Wilayah Persekutuan Putrajaya | 67.3        | 69.6        | 63.6        | 61.5        | 61.3        | 58.7        | 64.1        | 75.7        |
| Wilayah Persekutuan Labuan                                       | 78.5        | 81.2        | 78.4        | 84.1        | 76.1        | 67.0        | 74.8        | 80.3        |
| <b>Malaysia</b>                                                  | <b>80.1</b> | <b>80.2</b> | <b>79.2</b> | <b>79.1</b> | <b>77.8</b> | <b>69.8</b> | <b>73.9</b> | <b>80.4</b> |

**4b Kapasiti Penggunaan Industri Pembuatan mengikut Negeri - Suku Tahunan**  
*Manufacturing Industry Capacity Utilisation by State - Quarterly*

| Negeri<br>State                                                  | 2017        |             |             |             | 2018        |             |             |
|------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                  | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          |
| Johor                                                            | 76.4        | 75.8        | 79.2        | 78.0        | 79.6        | 80.2        | 79.5        |
| Kedah                                                            | 85.5        | 84.4        | 84.9        | 85.9        | 84.9        | 86.2        | 86.5        |
| Kelantan                                                         | 71.0        | 71.8        | 70.0        | 71.8        | 75.7        | 71.1        | 71.8        |
| Melaka                                                           | 89.8        | 87.6        | 91.8        | 92.3        | 91.0        | 92.2        | 91.2        |
| Negeri Sembilan                                                  | 77.8        | 76.1        | 78.1        | 75.9        | 77.9        | 78.3        | 68.0        |
| Pahang                                                           | 82.3        | 75.4        | 78.9        | 76.1        | 84.9        | 78.2        | 82.7        |
| Pulau Pinang                                                     | 78.2        | 76.5        | 81.2        | 81.9        | 79.6        | 78.9        | 80.2        |
| Perak                                                            | 72.1        | 69.2        | 71.1        | 73.2        | 71.1        | 70.4        | 71.6        |
| Perlis                                                           | 74.2        | 73.5        | 71.7        | 85.0        | 90.4        | 89.5        | 89.7        |
| Selangor                                                         | 75.0        | 76.0        | 76.9        | 75.9        | 75.9        | 76.2        | 76.4        |
| Terengganu                                                       | 91.1        | 86.0        | 81.4        | 86.6        | 87.5        | 83.6        | 84.6        |
| Sabah                                                            | 73.3        | 69.5        | 73.1        | 75.1        | 72.5        | 74.6        | 76.0        |
| Sarawak                                                          | 85.2        | 78.8        | 83.3        | 85.9        | 81.0        | 79.6        | 80.2        |
| Wilayah Persekutuan Kuala Lumpur & Wilayah Persekutuan Putrajaya | 62.9        | 66.4        | 65.3        | 59.8        | 59.6        | 62.5        | 63.8        |
| Wilayah Persekutuan Labuan                                       | 78.4        | 85.0        | 83.2        | 67.0        | 87.4        | 86.9        | 67.3        |
| <b>Malaysia</b>                                                  | <b>79.1</b> | <b>77.7</b> | <b>80.1</b> | <b>80.0</b> | <b>79.7</b> | <b>79.4</b> | <b>79.1</b> |

| 2019        |             |             |             | 2020        |             |             |             | 2021        |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Q4          | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          | Q4          |
| 79.1        | 78.8        | 78.6        | 77.9        | 79.0        | 72.7        | 61.4        | 74.8        | 76.3        | 75.8        | 73.0        | 69.6        | 77.7        |
| 87.0        | 87.9        | 87.3        | 87.1        | 87.5        | 77.4        | 74.3        | 80.8        | 81.6        | 82.4        | 81.6        | 78.7        | 83.6        |
| 73.2        | 73.8        | 76.1        | 74.9        | 73.0        | 69.5        | 65.5        | 73.4        | 73.7        | 74.5        | 72.2        | 70.9        | 75.8        |
| 90.1        | 63.4        | 74.2        | 81.7        | 81.5        | 53.4        | 47.0        | 62.5        | 64.9        | 83.8        | 77.5        | 62.9        | 59.6        |
| 71.4        | 78.8        | 78.2        | 76.9        | 72.9        | 73.5        | 61.9        | 71.6        | 71.7        | 72.2        | 70.4        | 67.4        | 71.8        |
| 82.4        | 79.3        | 78.1        | 80.8        | 84.3        | 76.0        | 70.8        | 80.0        | 78.5        | 79.7        | 73.5        | 76.9        | 83.0        |
| 77.6        | 76.8        | 77.0        | 78.3        | 78.4        | 73.1        | 63.8        | 74.2        | 77.0        | 77.7        | 75.2        | 72.4        | 74.5        |
| 69.4        | 69.5        | 70.2        | 71.3        | 72.1        | 71.4        | 67.5        | 71.6        | 71.4        | 72.1        | 70.3        | 72.9        | 75.2        |
| 58.6        | 71.8        | 71.1        | 71.7        | 71.5        | 65.0        | 41.5        | 66.2        | 77.3        | 73.9        | 71.8        | 68.0        | 71.3        |
| 74.5        | 73.9        | 75.3        | 77.4        | 76.5        | 71.3        | 58.2        | 73.1        | 73.1        | 73.5        | 72.0        | 67.8        | 76.6        |
| 88.6        | 88.6        | 94.5        | 90.7        | 92.2        | 85.9        | 69.2        | 79.4        | 80.2        | 86.4        | 85.7        | 81.5        | 85.3        |
| 73.3        | 74.2        | 75.3        | 73.8        | 75.9        | 68.3        | 61.1        | 73.9        | 68.7        | 70.6        | 70.1        | 68.9        | 73.7        |
| 80.3        | 79.6        | 79.1        | 78.7        | 80.8        | 70.5        | 58.9        | 71.6        | 74.6        | 78.3        | 76.1        | 65.0        | 73.8        |
| 60.2        | 60.7        | 61.9        | 61.5        | 61.1        | 61.0        | 56.1        | 59.8        | 57.7        | 65.2        | 62.7        | 61.0        | 67.3        |
| 94.7        | 64.0        | 91.1        | 85.7        | 63.6        | 70.7        | 59.9        | 68.1        | 69.4        | 73.9        | 77.9        | 82.7        | 64.9        |
| <b>78.3</b> | <b>76.1</b> | <b>77.7</b> | <b>78.8</b> | <b>78.7</b> | <b>71.2</b> | <b>60.8</b> | <b>73.0</b> | <b>74.1</b> | <b>76.7</b> | <b>74.3</b> | <b>69.6</b> | <b>75.1</b> |

**4b Kapasiti Penggunaan Industri Pembuatan mengikut Negeri - Suku Tahunan**  
*Manufacturing Industry Capacity Utilisation by State - Quarterly*

| Negeri<br>State                                                  | 2022        |             |             |             | 2023        |             |             |
|------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                  | Q1          | Q2          | Q3          | Q4          | Q1          | Q2          | Q3          |
| Johor                                                            | 81.1        | 80.9        | 81.9        | 80.9        | 80.7        | 78.9        | 81.5        |
| Kedah                                                            | 84.8        | 85.6        | 85.2        | 85.1        | 83.8        | 78.6        | 77.9        |
| Kelantan                                                         | 83.5        | 78.9        | 79.5        | 75.6        | 77.4        | 73.8        | 75.8        |
| Melaka                                                           | 87.0        | 70.5        | 87.9        | 87.4        | 81.4        | 82.6        | 84.4        |
| Negeri Sembilan                                                  | 86.8        | 85.7        | 84.5        | 82.2        | 82.0        | 81.2        | 86.1        |
| Pahang                                                           | 78.2        | 79.7        | 76.7        | 75.1        | 76.3        | 75.4        | 83.5        |
| Pulau Pinang                                                     | 77.6        | 76.2        | 78.0        | 75.4        | 76.8        | 76.0        | 77.4        |
| Perak                                                            | 78.6        | 75.2        | 74.2        | 77.2        | 77.1        | 76.4        | 78.4        |
| Perlis                                                           | 77.5        | 77.5        | 73.4        | 74.4        | 65.8        | 62.3        | 65.5        |
| Selangor                                                         | 80.8        | 80.7        | 83.1        | 80.6        | 79.7        | 81.6        | 82.0        |
| Terengganu                                                       | 72.8        | 81.7        | 82.3        | 84.7        | 78.8        | 85.8        | 80.1        |
| Sabah                                                            | 72.4        | 74.8        | 72.0        | 69.1        | 72.3        | 72.6        | 76.2        |
| Sarawak                                                          | 82.6        | 75.6        | 75.2        | 77.5        | 81.6        | 70.4        | 70.6        |
| Wilayah Persekutuan Kuala Lumpur & Wilayah Persekutuan Putrajaya | 76.8        | 75.1        | 75.6        | 75.2        | 79.6        | 75.9        | 75.2        |
| Wilayah Persekutuan Labuan                                       | 93.7        | 58.2        | 76.1        | 93.1        | 93.3        | 75.0        | 97.4        |
| <b>Malaysia</b>                                                  | <b>81.1</b> | <b>79.0</b> | <b>81.3</b> | <b>80.2</b> | <b>79.8</b> | <b>78.2</b> | <b>79.4</b> |

**4c Kapasiti Penggunaan Industri Pembuatan mengikut Negeri - Bulanan**  
*Manufacturing Industry Capacity Utilisation by State - Monthly*

| Negeri<br>State                                                  | 2017        |             |             |             |             |             |             |             |             |
|------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                  | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         | Jul.        | Ogo.        | Sep.        |
| Johor                                                            | 79.1        | 74.1        | 75.9        | 75.6        | 76.0        | 75.6        | 78.8        | 79.7        | 79.2        |
| Kedah                                                            | 85.4        | 85.2        | 85.9        | 82.8        | 86.0        | 84.5        | 83.4        | 85.7        | 85.5        |
| Kelantan                                                         | 68.3        | 70.8        | 73.9        | 77.0        | 70.1        | 68.4        | 69.2        | 69.4        | 71.3        |
| Melaka                                                           | 92.0        | 88.1        | 89.2        | 82.0        | 90.3        | 90.4        | 92.2        | 92.7        | 90.4        |
| Negeri Sembilan                                                  | 78.7        | 77.4        | 77.2        | 76.4        | 74.8        | 77.1        | 78.7        | 77.6        | 78.1        |
| Pahang                                                           | 82.4        | 80.5        | 84.1        | 75.7        | 72.2        | 78.2        | 79.2        | 79.2        | 78.2        |
| Pulau Pinang                                                     | 77.5        | 77.8        | 79.4        | 75.9        | 77.9        | 75.9        | 78.6        | 82.2        | 82.8        |
| Perak                                                            | 72.2        | 71.3        | 72.7        | 69.4        | 68.3        | 69.8        | 71.1        | 70.0        | 72.2        |
| Pertlis                                                          | 89.9        | 58.5        | 74.2        | 74.7        | 66.6        | 79.1        | 72.8        | 74.0        | 68.2        |
| Selangor                                                         | 74.8        | 74.4        | 75.7        | 74.2        | 77.7        | 76.0        | 77.6        | 76.7        | 76.5        |
| Terengganu                                                       | 91.2        | 90.9        | 91.1        | 86.2        | 82.1        | 89.8        | 81.0        | 78.8        | 84.5        |
| Sabah                                                            | 74.1        | 75.1        | 70.8        | 72.8        | 71.4        | 64.4        | 72.5        | 71.5        | 75.2        |
| Sarawak                                                          | 84.3        | 87.5        | 83.8        | 75.8        | 74.7        | 85.9        | 86.9        | 84.1        | 78.8        |
| Wilayah Persekutuan Kuala Lumpur & Wilayah Persekutuan Putrajaya | 63.4        | 62.9        | 62.5        | 68.1        | 65.1        | 66.1        | 66.6        | 67.1        | 62.3        |
| Wilayah Persekutuan Labuan                                       | 59.4        | 89.0        | 86.8        | 92.1        | 91.6        | 71.3        | 89.4        | 79.7        | 80.6        |
| <b>Malaysia</b>                                                  | <b>79.4</b> | <b>78.5</b> | <b>79.3</b> | <b>76.3</b> | <b>78.0</b> | <b>78.7</b> | <b>80.1</b> | <b>80.3</b> | <b>79.8</b> |

**4c Kapasiti Penggunaan Industri Pembuatan mengikut Negeri - Bulanan**  
*Manufacturing Industry Capacity Utilisation by State - Monthly*

| Negeri<br>State                                                  | 2017        |             |             | 2018        |             |             |             |             |             |
|------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                  | Okt.        | Nov.        | Dis.        | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         |
| Johor                                                            | 78.7        | 78.8        | 76.4        | 79.9        | 78.5        | 80.4        | 80.8        | 81.7        | 78.1        |
| Kedah                                                            | 85.0        | 86.2        | 86.5        | 82.8        | 84.5        | 87.4        | 86.3        | 86.2        | 86.0        |
| Kelantan                                                         | 72.6        | 75.0        | 67.7        | 73.4        | 75.6        | 78.0        | 71.9        | 69.4        | 72.1        |
| Melaka                                                           | 92.9        | 91.9        | 92.0        | 91.0        | 90.3        | 91.7        | 92.0        | 92.4        | 92.2        |
| Negeri Sembilan                                                  | 77.0        | 76.6        | 74.1        | 80.9        | 77.3        | 75.4        | 79.4        | 77.1        | 78.4        |
| Pahang                                                           | 77.9        | 73.9        | 76.7        | 84.8        | 84.0        | 86.0        | 75.2        | 77.4        | 82.1        |
| Pulau Pinang                                                     | 81.3        | 81.8        | 82.6        | 80.8        | 79.0        | 79.1        | 79.4        | 80.1        | 77.2        |
| Perak                                                            | 74.3        | 73.2        | 72.2        | 72.4        | 67.6        | 73.3        | 72.1        | 71.0        | 68.2        |
| Pertlis                                                          | 85.3        | 85.2        | 84.3        | 90.4        | 90.3        | 90.4        | 90.1        | 89.8        | 88.6        |
| Selangor                                                         | 75.1        | 76.6        | 76.0        | 75.7        | 72.4        | 79.7        | 76.3        | 76.5        | 75.7        |
| Terengganu                                                       | 85.4        | 85.4        | 88.9        | 86.7        | 87.0        | 88.9        | 84.6        | 88.2        | 78.0        |
| Sabah                                                            | 76.4        | 74.6        | 74.2        | 73.3        | 69.3        | 75.0        | 75.3        | 74.6        | 73.7        |
| Sarawak                                                          | 83.7        | 87.6        | 86.3        | 84.1        | 76.9        | 82.0        | 80.0        | 79.3        | 79.5        |
| Wilayah Persekutuan Kuala Lumpur & Wilayah Persekutuan Putrajaya | 60.0        | 59.4        | 59.8        | 62.0        | 55.1        | 61.9        | 61.2        | 61.6        | 64.9        |
| Wilayah Persekutuan Labuan                                       | 72.7        | 67.9        | 60.4        | 93.1        | 91.6        | 77.6        | 87.9        | 89.5        | 83.4        |
| <b>Malaysia</b>                                                  | <b>79.7</b> | <b>80.4</b> | <b>79.9</b> | <b>80.2</b> | <b>77.7</b> | <b>81.1</b> | <b>79.7</b> | <b>80.0</b> | <b>78.6</b> |

| 2019 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 80.4 | 79.4 | 78.7 | 79.8 | 78.7 | 78.9 | 79.3 | 78.0 | 79.2 | 80.0 | 78.8 | 77.1 | 78.9 | 77.2 | 77.5 |
| 85.8 | 86.9 | 86.9 | 86.4 | 86.8 | 87.9 | 88.1 | 87.3 | 88.1 | 87.2 | 87.3 | 87.5 | 87.2 | 86.7 | 87.3 |
| 71.5 | 70.9 | 73.1 | 73.4 | 72.3 | 73.7 | 72.4 | 73.6 | 75.4 | 77.0 | 76.5 | 74.7 | 75.9 | 74.2 | 74.5 |
| 91.7 | 91.4 | 90.5 | 90.9 | 89.8 | 89.4 | 59.9 | 72.6 | 57.6 | 61.7 | 74.3 | 86.7 | 80.3 | 81.2 | 83.5 |
| 77.7 | 62.9 | 63.4 | 58.6 | 77.0 | 78.7 | 78.6 | 79.0 | 79.0 | 79.5 | 78.2 | 76.8 | 77.2 | 75.2 | 78.2 |
| 84.6 | 83.0 | 80.5 | 81.8 | 83.9 | 81.5 | 83.8 | 81.5 | 72.8 | 73.6 | 80.6 | 80.2 | 77.8 | 80.3 | 84.3 |
| 80.6 | 81.0 | 79.0 | 79.3 | 76.5 | 76.8 | 79.1 | 74.3 | 77.0 | 76.4 | 78.0 | 76.6 | 79.7 | 78.8 | 76.4 |
| 73.9 | 71.8 | 69.1 | 73.4 | 67.4 | 67.5 | 70.6 | 67.7 | 70.1 | 71.8 | 71.9 | 67.0 | 71.8 | 70.7 | 71.4 |
| 89.5 | 90.3 | 89.1 | 50.1 | 61.3 | 64.5 | 70.9 | 73.0 | 71.5 | 70.5 | 71.9 | 71.0 | 72.0 | 71.7 | 71.5 |
| 78.4 | 76.3 | 74.5 | 75.8 | 73.7 | 73.9 | 73.8 | 72.9 | 74.9 | 76.2 | 75.4 | 74.3 | 78.1 | 77.6 | 76.6 |
| 84.5 | 82.7 | 86.7 | 87.7 | 89.1 | 89.0 | 82.7 | 94.3 | 89.0 | 93.4 | 94.9 | 95.3 | 94.7 | 87.0 | 90.3 |
| 77.8 | 75.1 | 75.0 | 74.0 | 75.5 | 70.4 | 73.9 | 72.0 | 76.7 | 75.7 | 77.5 | 72.8 | 73.8 | 74.1 | 73.6 |
| 80.2 | 79.8 | 80.5 | 78.0 | 81.4 | 81.5 | 83.6 | 74.5 | 80.6 | 78.8 | 80.8 | 77.6 | 79.4 | 78.3 | 78.3 |
| 66.1 | 66.1 | 59.2 | 61.1 | 59.4 | 60.1 | 60.1 | 60.0 | 62.0 | 62.6 | 61.3 | 61.8 | 60.9 | 64.1 | 59.7 |
| 87.1 | 60.0 | 54.7 | 92.4 | 96.2 | 95.4 | 82.3 | 45.0 | 64.6 | 90.3 | 91.1 | 92.0 | 84.2 | 88.2 | 84.7 |
| 80.7 | 78.9 | 77.8 | 78.1 | 78.3 | 78.5 | 76.6 | 75.8 | 76.1 | 77.0 | 78.2 | 77.9 | 79.4 | 78.4 | 78.4 |

**4c Kapasiti Penggunaan Industri Pembuatan mengikut Negeri - Bulanan**  
*Manufacturing Industry Capacity Utilisation by State - Monthly*

| Negeri<br>State                                                  | 2019        |             |             | 2020        |             |             |             |             |             |
|------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                  | Okt.        | Nov.        | Dis.        | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         |
| Johor                                                            | 79.6        | 78.4        | 78.9        | 77.6        | 77.5        | 63.0        | 47.3        | 66.7        | 70.2        |
| Kedah                                                            | 86.3        | 87.8        | 88.5        | 77.4        | 78.7        | 76.0        | 65.7        | 76.5        | 80.5        |
| Kelantan                                                         | 73.1        | 72.8        | 73.2        | 72.7        | 75.2        | 60.6        | 56.9        | 68.8        | 70.8        |
| Melaka                                                           | 82.2        | 81.3        | 80.9        | 59.3        | 60.0        | 41.0        | 28.0        | 49.8        | 63.1        |
| Negeri Sembilan                                                  | 72.6        | 74.6        | 71.6        | 76.7        | 76.3        | 67.6        | 54.0        | 62.1        | 69.5        |
| Pahang                                                           | 83.8        | 85.3        | 83.9        | 77.9        | 77.6        | 72.5        | 62.7        | 72.1        | 77.7        |
| Pulau Pinang                                                     | 79.1        | 78.7        | 77.3        | 76.9        | 76.7        | 65.8        | 50.4        | 68.4        | 72.6        |
| Perak                                                            | 72.2        | 70.9        | 73.0        | 73.9        | 74.9        | 65.3        | 62.0        | 67.8        | 72.7        |
| Pertlis                                                          | 72.1        | 71.1        | 71.2        | 73.0        | 72.5        | 49.6        | 16.5        | 49.7        | 58.1        |
| Selangor                                                         | 77.0        | 76.5        | 76.2        | 74.8        | 74.5        | 64.4        | 45.2        | 59.2        | 70.2        |
| Terengganu                                                       | 90.2        | 94.5        | 92.1        | 88.9        | 90.8        | 78.1        | 49.3        | 79.7        | 78.5        |
| Sabah                                                            | 77.9        | 79.0        | 70.6        | 73.1        | 73.3        | 58.5        | 40.8        | 67.2        | 75.2        |
| Sarawak                                                          | 77.7        | 83.0        | 81.8        | 71.0        | 71.8        | 68.5        | 45.6        | 61.9        | 69.1        |
| Wilayah Persekutuan Kuala Lumpur & Wilayah Persekutuan Putrajaya | 60.6        | 61.9        | 60.8        | 63.6        | 62.0        | 57.6        | 47.0        | 58.3        | 63.1        |
| Wilayah Persekutuan Labuan                                       | 90.5        | 42.3        | 58.0        | 59.7        | 68.4        | 84.2        | 35.8        | 82.2        | 61.9        |
| <b>Malaysia</b>                                                  | <b>78.8</b> | <b>79.1</b> | <b>78.4</b> | <b>74.6</b> | <b>74.7</b> | <b>64.4</b> | <b>47.7</b> | <b>63.9</b> | <b>70.9</b> |

| 2021 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 74.7 | 73.3 | 76.3 | 76.7 | 75.8 | 76.5 | 75.5 | 74.2 | 77.7 | 77.2 | 74.8 | 66.9 | 66.9 | 67.6 | 74.5 |
| 80.8 | 79.9 | 81.6 | 81.2 | 81.4 | 82.2 | 81.6 | 82.2 | 83.6 | 82.2 | 81.1 | 81.3 | 76.2 | 76.8 | 83.0 |
| 74.5 | 73.9 | 71.7 | 73.2 | 73.0 | 75.0 | 73.6 | 71.4 | 78.6 | 77.0 | 72.5 | 67.2 | 68.3 | 70.3 | 74.1 |
| 56.7 | 62.9 | 67.8 | 73.1 | 58.5 | 62.9 | 83.2 | 84.4 | 83.7 | 83.2 | 82.5 | 66.8 | 67.6 | 62.0 | 59.0 |
| 71.9 | 70.4 | 72.4 | 71.7 | 72.4 | 70.9 | 72.8 | 70.0 | 73.7 | 73.5 | 71.6 | 65.9 | 64.6 | 66.9 | 70.7 |
| 80.5 | 79.2 | 80.2 | 84.8 | 77.7 | 72.9 | 84.6 | 82.3 | 72.1 | 70.8 | 76.1 | 73.6 | 76.0 | 74.2 | 80.6 |
| 71.7 | 73.7 | 77.3 | 76.6 | 77.0 | 77.4 | 79.0 | 76.0 | 78.1 | 78.3 | 75.3 | 72.0 | 72.6 | 70.7 | 74.0 |
| 71.5 | 71.8 | 71.4 | 71.5 | 70.0 | 72.6 | 71.0 | 72.2 | 73.3 | 74.7 | 72.2 | 64.0 | 71.6 | 72.7 | 74.6 |
| 62.9 | 65.9 | 70.0 | 73.6 | 76.9 | 81.2 | 73.6 | 74.3 | 73.9 | 72.2 | 71.6 | 71.5 | 64.3 | 73.2 | 66.5 |
| 73.1 | 72.3 | 73.7 | 73.7 | 71.9 | 73.7 | 72.5 | 72.0 | 76.1 | 74.3 | 73.9 | 67.9 | 60.1 | 67.6 | 75.7 |
| 80.4 | 78.9 | 79.0 | 79.6 | 81.4 | 79.6 | 88.2 | 83.2 | 87.9 | 87.0 | 88.7 | 81.5 | 84.0 | 78.8 | 81.8 |
| 74.8 | 73.9 | 73.2 | 65.8 | 69.7 | 70.7 | 69.8 | 69.2 | 73.0 | 73.8 | 67.7 | 68.9 | 68.9 | 69.0 | 68.9 |
| 71.9 | 71.3 | 71.7 | 75.1 | 70.2 | 78.4 | 77.6 | 80.4 | 76.9 | 75.6 | 79.0 | 73.7 | 70.7 | 63.6 | 60.8 |
| 62.0 | 59.1 | 58.3 | 56.6 | 56.1 | 60.4 | 64.1 | 64.4 | 67.2 | 65.6 | 63.2 | 59.3 | 57.4 | 60.6 | 65.1 |
| 45.1 | 77.5 | 81.6 | 62.7 | 73.7 | 71.6 | 66.2 | 88.8 | 66.6 | 69.6 | 80.1 | 83.9 | 88.0 | 78.0 | 82.1 |
| 72.2 | 72.4 | 74.4 | 75.1 | 72.8 | 74.5 | 76.5 | 75.8 | 77.7 | 76.9 | 76.1 | 70.0 | 67.6 | 68.5 | 72.7 |

**4c Kapasiti Penggunaan Industri Pembuatan mengikut Negeri - Bulanan**  
*Manufacturing Industry Capacity Utilisation by State - Monthly*

| Negeri<br>State                                                  | 2021        |             |             | 2022        |             |             |             |             |             |
|------------------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                  | Okt.        | Nov.        | Dis.        | Jan.        | Feb.        | Mac         | Apr.        | Mei         | Jun         |
| Johor                                                            | 76.8        | 77.6        | 78.8        | 80.8        | 79.3        | 83.1        | 80.5        | 79.3        | 83.0        |
| Kedah                                                            | 82.7        | 84.1        | 83.9        | 84.6        | 86.7        | 83.3        | 87.0        | 84.7        | 85.3        |
| Kelantan                                                         | 76.2        | 75.0        | 76.2        | 87.9        | 79.6        | 83.0        | 80.0        | 75.9        | 80.8        |
| Melaka                                                           | 59.3        | 58.7        | 60.8        | 93.4        | 89.8        | 77.8        | 89.0        | 73.2        | 49.2        |
| Negeri Sembilan                                                  | 72.7        | 71.2        | 71.5        | 87.9        | 82.9        | 89.6        | 85.6        | 81.1        | 90.3        |
| Pahang                                                           | 85.6        | 81.7        | 81.6        | 73.2        | 81.4        | 80.1        | 79.7        | 79.0        | 80.4        |
| Pulau Pinang                                                     | 75.2        | 73.9        | 74.5        | 75.6        | 76.0        | 81.3        | 76.7        | 74.0        | 78.0        |
| Perak                                                            | 78.1        | 70.9        | 76.6        | 80.1        | 74.7        | 81.0        | 75.8        | 74.0        | 76.0        |
| Pertlis                                                          | 70.1        | 72.4        | 71.3        | 78.0        | 76.6        | 78.0        | 78.2        | 76.1        | 78.1        |
| Selangor                                                         | 77.1        | 76.6        | 76.1        | 82.8        | 77.4        | 82.3        | 78.7        | 80.0        | 83.3        |
| Terengganu                                                       | 79.3        | 87.1        | 89.3        | 73.9        | 70.5        | 74.1        | 89.2        | 76.4        | 79.4        |
| Sabah                                                            | 73.5        | 76.5        | 71.1        | 69.8        | 68.8        | 78.6        | 74.2        | 71.6        | 78.5        |
| Sarawak                                                          | 66.5        | 77.4        | 77.5        | 77.3        | 90.5        | 80.1        | 76.2        | 71.9        | 78.9        |
| Wilayah Persekutuan Kuala Lumpur & Wilayah Persekutuan Putrajaya | 67.8        | 65.8        | 68.4        | 77.5        | 75.2        | 77.9        | 76.2        | 76.2        | 73.0        |
| Wilayah Persekutuan Labuan                                       | 69.5        | 82.0        | 43.3        | 94.2        | 92.2        | 94.6        | 71.8        | 57.5        | 45.3        |
| <b>Malaysia</b>                                                  | <b>74.5</b> | <b>75.2</b> | <b>75.7</b> | <b>81.3</b> | <b>80.2</b> | <b>81.7</b> | <b>80.4</b> | <b>77.4</b> | <b>79.1</b> |

| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Jul. | Ogo. | Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 82.9 | 82.9 | 79.8 | 81.5 | 80.6 | 80.5 | 79.9 | 80.3 | 82.0 | 77.1 | 79.3 | 80.3 | 80.9 | 81.6 | 82.0 |
| 85.4 | 84.4 | 85.8 | 87.1 | 86.7 | 81.4 | 85.0 | 82.9 | 83.3 | 75.8 | 80.0 | 79.9 | 77.7 | 76.9 | 79.1 |
| 80.7 | 79.7 | 78.2 | 77.7 | 75.8 | 73.4 | 76.7 | 77.3 | 78.1 | 72.9 | 72.5 | 76.0 | 80.4 | 76.4 | 70.6 |
| 82.7 | 88.1 | 92.8 | 90.0 | 92.4 | 79.9 | 86.7 | 76.0 | 81.6 | 81.4 | 86.8 | 79.5 | 82.8 | 87.5 | 83.0 |
| 84.5 | 83.6 | 85.3 | 85.4 | 84.1 | 77.2 | 81.7 | 79.7 | 84.6 | 82.6 | 81.1 | 80.0 | 87.0 | 85.0 | 86.2 |
| 78.8 | 78.1 | 73.3 | 72.9 | 76.3 | 76.1 | 79.5 | 73.9 | 75.4 | 78.4 | 76.4 | 71.4 | 79.2 | 84.3 | 87.1 |
| 78.6 | 76.7 | 78.8 | 74.8 | 74.6 | 76.8 | 75.7 | 76.7 | 77.9 | 72.8 | 77.2 | 78.0 | 74.6 | 77.4 | 80.1 |
| 73.7 | 74.0 | 74.7 | 77.0 | 76.8 | 77.7 | 78.0 | 80.5 | 72.8 | 77.2 | 73.9 | 78.1 | 78.2 | 75.9 | 81.0 |
| 70.8 | 74.1 | 75.3 | 74.5 | 75.4 | 73.3 | 59.1 | 65.9 | 72.5 | 57.4 | 65.1 | 64.4 | 61.2 | 60.3 | 75.1 |
| 82.3 | 83.6 | 83.3 | 79.3 | 79.9 | 82.8 | 77.9 | 78.8 | 82.3 | 80.6 | 82.6 | 81.5 | 80.6 | 82.4 | 83.1 |
| 79.4 | 84.7 | 82.8 | 87.2 | 78.5 | 88.2 | 76.9 | 81.3 | 78.3 | 82.0 | 86.2 | 89.4 | 83.7 | 82.2 | 74.5 |
| 71.5 | 72.0 | 72.6 | 69.1 | 67.5 | 70.6 | 71.8 | 72.4 | 72.8 | 69.6 | 74.0 | 74.2 | 77.3 | 76.9 | 74.4 |
| 77.6 | 72.3 | 75.8 | 73.7 | 79.8 | 79.0 | 80.1 | 84.0 | 80.8 | 67.7 | 70.2 | 73.4 | 70.8 | 70.6 | 70.3 |
| 72.4 | 76.2 | 78.1 | 76.4 | 73.0 | 76.2 | 78.3 | 79.2 | 81.3 | 75.3 | 77.9 | 74.5 | 74.8 | 74.0 | 76.7 |
| 57.8 | 94.5 | 76.1 | 95.6 | 96.4 | 87.3 | 96.3 | 91.0 | 92.6 | 60.0 | 70.6 | 94.5 | 97.7 | 97.0 | 97.4 |
| 80.9 | 81.2 | 81.7 | 80.1 | 80.4 | 80.2 | 79.3 | 79.2 | 80.8 | 76.5 | 79.0 | 79.2 | 78.6 | 79.6 | 80.0 |

**5 Faktor Kapasiti Industri Pembuatan di bawah Tahap Penggunaan - Peratus Sumbangan**  
*Factors of Underutilisation of Manufacturing Industry Capacity - Percentage Share*

| Keterangan Faktor<br><i>Factor Description</i>                                                                                          | 2022 |      |      |      |      |      |      |      |
|-----------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
|                                                                                                                                         | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. |
| Kurang menguntungkan untuk beroperasi pada keupayaan pengeluaran<br><i>Not most profitable to operate at full production capability</i> | 4.2  | 4.2  | 4.4  | 4.9  | 4.9  | 5.1  | 5.5  | 5.4  |
| Bekalan bahan tidak mencukupi<br><i>Insufficient supply of materials</i>                                                                | 12.3 | 11.6 | 12.0 | 12.2 | 12.6 | 12.2 | 12.1 | 12.3 |
| Pembaikan & penyelenggaraan mesin dan kelengkapan<br><i>Repair &amp; maintenance of machinery and equipment</i>                         | 9.0  | 8.6  | 9.5  | 9.2  | 9.2  | 9.4  | 9.4  | 9.8  |
| Inventori yang mencukupi<br><i>Sufficient inventory</i>                                                                                 | 5.0  | 4.9  | 5.2  | 5.3  | 5.5  | 5.6  | 5.4  | 5.8  |
| Permintaan kurang<br><i>Low demand</i>                                                                                                  | 35.4 | 34.2 | 33.9 | 33.3 | 32.7 | 33.3 | 34.2 | 33.2 |
| Kekurangan tenaga buruh<br><i>Insufficient supply of labour force</i>                                                                   | 10.5 | 10.7 | 12.0 | 12.2 | 12.1 | 12.1 | 11.3 | 11.2 |
| Bahan bakar atau tenaga elektrik yang tidak mencukupi<br><i>Lack of sufficient fuel or electric energy</i>                              | 0.3  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.3  |
| Limitasi atau kerosakan mesin dan kelengkapan<br><i>Machinery and equipment limitations or failures</i>                                 | 3.9  | 3.8  | 3.9  | 4.3  | 3.9  | 4.1  | 3.9  | 4.1  |
| Pekerja kurang kompeten<br><i>Incompetent workers</i>                                                                                   | 2.5  | 2.7  | 2.6  | 2.5  | 2.7  | 2.7  | 2.7  | 2.9  |
| Limitasi ruang penyimpanan<br><i>Storage limitations</i>                                                                                | 4.1  | 3.6  | 4.6  | 4.0  | 3.9  | 4.2  | 4.4  | 4.2  |
| Kekangan logistik/ pengangkutan<br><i>Logistics/ transportation constraints</i>                                                         | 2.4  | 2.1  | 2.0  | 2.1  | 2.3  | 1.9  | 1.8  | 1.9  |
| Penutupan kilang sementara<br><i>Temporary plant shutdown</i>                                                                           | 1.2  | 1.7  | 0.9  | 0.8  | 0.9  | 0.8  | 0.6  | 0.6  |
| Kekangan kewangan<br><i>Financial constraints</i>                                                                                       | 1.5  | 1.3  | 1.3  | 1.4  | 1.1  | 1.2  | 1.2  | 1.1  |
| Mogok atau pemberhentian pekerja<br><i>Strike or work stoppage</i>                                                                      | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  |
| Operasi bermusim<br><i>Seasonal operations</i>                                                                                          | 3.1  | 3.5  | 3.2  | 3.7  | 3.2  | 3.0  | 3.0  | 3.0  |
| Sekatan berkaitan alam sekitar<br><i>Environmental restrictions</i>                                                                     | 0.3  | 0.5  | 0.2  | 0.4  | 0.2  | 0.2  | 0.3  | 0.2  |
| Isu kualiti produk atau perkhidmatan<br><i>Quality issues of products or services</i>                                                   | 1.0  | 0.9  | 0.9  | 0.9  | 0.9  | 1.2  | 1.0  | 1.0  |
| Lain-lain<br><i>Others</i>                                                                                                              | 3.4  | 5.3  | 2.9  | 2.5  | 3.5  | 2.7  | 2.7  | 2.8  |

| 2023 |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Sep. | Okt. | Nov. | Dis. | Jan. | Feb. | Mac  | Apr. | Mei  | Jun  | Jul. | Ogo. | Sep. |
| 5.6  | 6.0  | 6.3  | 6.0  | 5.5  | 5.0  | 5.6  | 5.4  | 5.4  | 5.2  | 5.3  | 5.4  | 5.2  |
| 12.4 | 12.2 | 11.8 | 12.0 | 11.0 | 10.8 | 10.9 | 11.1 | 10.9 | 10.6 | 11.1 | 11.3 | 11.5 |
| 9.7  | 9.1  | 9.1  | 9.6  | 9.0  | 9.4  | 9.2  | 8.7  | 8.6  | 9.1  | 9.1  | 8.7  | 8.9  |
| 5.7  | 5.9  | 6.1  | 6.5  | 5.2  | 5.9  | 6.2  | 5.5  | 5.9  | 6.5  | 6.1  | 6.2  | 5.8  |
| 34.8 | 35.2 | 35.2 | 34.0 | 36.7 | 36.5 | 37.3 | 39.4 | 40.3 | 39.3 | 40.8 | 40.0 | 41.5 |
| 10.3 | 10.1 | 10.0 | 9.8  | 9.0  | 8.5  | 8.0  | 7.9  | 7.4  | 7.6  | 7.2  | 7.4  | 7.0  |
| 0.3  | 0.4  | 0.4  | 0.4  | 0.3  | 0.3  | 0.4  | 0.4  | 0.4  | 0.4  | 0.3  | 0.3  | 0.3  |
| 4.1  | 4.0  | 3.7  | 4.0  | 3.5  | 3.9  | 3.8  | 3.6  | 3.8  | 3.7  | 3.6  | 3.5  | 3.5  |
| 2.4  | 2.2  | 2.5  | 2.5  | 2.6  | 2.4  | 2.4  | 2.2  | 2.2  | 2.2  | 2.1  | 2.0  | 2.3  |
| 4.0  | 3.9  | 4.1  | 4.2  | 3.9  | 4.4  | 4.6  | 3.6  | 4.0  | 4.2  | 4.3  | 4.2  | 3.6  |
| 1.5  | 1.4  | 1.6  | 1.5  | 1.6  | 1.4  | 1.2  | 1.3  | 1.3  | 1.4  | 1.2  | 1.5  | 1.3  |
| 0.6  | 0.6  | 0.8  | 0.7  | 1.2  | 0.9  | 0.9  | 1.1  | 0.6  | 0.9  | 0.7  | 0.7  | 0.8  |
| 1.3  | 1.7  | 1.5  | 1.5  | 1.6  | 1.8  | 1.6  | 1.5  | 1.5  | 1.5  | 1.7  | 1.6  | 1.4  |
| 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  |
| 3.1  | 3.2  | 3.1  | 3.2  | 3.9  | 3.6  | 3.2  | 3.2  | 3.2  | 3.4  | 3.0  | 3.1  | 3.2  |
| 0.1  | 0.2  | 0.3  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  | 0.2  |
| 0.9  | 0.9  | 1.0  | 1.0  | 1.3  | 1.5  | 1.2  | 1.1  | 1.0  | 0.9  | 0.9  | 1.5  | 1.1  |
| 2.7  | 2.7  | 2.6  | 2.8  | 3.4  | 3.2  | 3.2  | 3.6  | 3.1  | 2.7  | 2.2  | 2.3  | 2.3  |

**6 Kapasiti Penggunaan mengikut Negara Terpilih**  
*Capacity Utilisation by Selected Country*

| Negara<br>Country | 2018 | 2019 | 2020 | 2021 | 2022 | 2018 |      |      |      | 2019 |      |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
|                   |      |      |      |      |      | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   |
| Canada            | 80.8 | 78.7 | 72.5 | 76.3 | 77.2 | 81.5 | 81.9 | 80.2 | 79.6 | 78.3 | 80.2 |
| China             | 76.5 | 76.6 | 74.1 | 77.5 | 75.6 | 76.5 | 76.8 | 76.5 | 76.0 | 75.9 | 76.4 |
| Germany           | 87.6 | 84.5 | 77.4 | 84.9 | 85.2 | 88.0 | 87.7 | 87.7 | 87.0 | 86.2 | 85.3 |
| Indonesia         | 74.4 | 75.4 | 67.3 | 69.8 | 72.4 | 73.4 | 75.7 | 73.9 | 74.6 | 75.9 | 76.2 |
| Philippines       | 74.5 | 71.3 | 56.8 | 65.8 | 71.1 | 75.6 | 74.8 | 74.5 | 73.2 | 72.3 | 72.2 |
| South Korea       | 73.8 | 73.2 | 71.3 | 74.8 | 74.8 | 72.7 | 74.8 | 74.3 | 73.4 | 71.9 | 72.3 |
| Thailand          | 68.6 | 65.3 | 60.1 | 63.3 | 62.8 | 71.6 | 67.0 | 67.6 | 68.1 | 70.4 | 64.8 |
| United States     | 78.3 | 77.0 | 72.5 | 77.2 | 79.2 | 77.7 | 78.4 | 78.8 | 78.4 | 77.5 | 77.1 |

**Nota / Note :**

Canada ST3 2023 akan diterbitkan pada **8 Disember 2023** / Canada Q3 2023 will be released on **8th** December 2023

| 2020 |      |      |      | 2021 |      |      |      | 2022 |      |      |      | 2023 |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   | Q4   | Q1   | Q2   | Q3   |
| 78.3 | 78.0 | 74.2 | 64.0 | 75.2 | 76.4 | 76.5 | 76.8 | 75.6 | 76.1 | 77.0 | 77.9 | 76.8 | 77.0 | 77.8 | 78.0 | -    |
| 76.4 | 77.5 | 67.3 | 74.4 | 76.7 | 78.0 | 77.2 | 78.4 | 77.1 | 77.4 | 75.8 | 75.1 | 75.6 | 75.7 | 74.3 | 74.5 | 75.6 |
| 83.9 | 82.6 | 83.1 | 70.6 | 74.9 | 81.0 | 82.2 | 85.4 | 86.5 | 85.4 | 86.0 | 84.9 | 85.1 | 84.9 | 84.6 | 84.2 | 82.9 |
| 74.7 | 74.6 | 71.8 | 61.8 | 67.4 | 68.4 | 69.1 | 71.9 | 68.8 | 69.3 | 72.0 | 72.6 | 73.1 | 71.9 | 72.3 | 73.6 | 75.2 |
| 71.3 | 69.4 | 65.6 | 53.0 | 56.5 | 51.9 | 64.3 | 65.2 | 66.0 | 67.7 | 70.0 | 70.5 | 71.5 | 72.2 | 73.0 | 73.1 | 74.0 |
| 74.6 | 74.1 | 73.0 | 66.9 | 71.5 | 73.6 | 74.6 | 73.2 | 74.5 | 76.7 | 78.9 | 76.0 | 74.3 | 69.9 | 70.6 | 71.8 | 72.1 |
| 64.2 | 62.0 | 66.0 | 52.1 | 59.4 | 63.0 | 66.6 | 62.9 | 58.7 | 64.8 | 66.8 | 61.2 | 62.8 | 60.3 | 63.8 | 57.7 | 58.0 |
| 77.0 | 76.5 | 75.7 | 65.8 | 73.4 | 75.0 | 75.7 | 76.9 | 77.6 | 78.7 | 79.2 | 79.6 | 79.4 | 78.5 | 78.2 | 78.0 | 77.8 |

**7a Indeks Pengeluaran Perindustrian Sektor Pembuatan mengikut Kumpulan - Tahunan**  
*Industrial Production Index of Manufacturing Sector by Group - Yearly*

| Bil. No. | Wajaran Weights 2015 | Kod Codes | Keterangan Subsektor Sub-sector Description                                                                                                                                                                                                   | 2015         | 2016         | 2017         | 2018         | 2019         | 2020         | 2021         | 2022         |
|----------|----------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|          | <b>68.25</b>         | <b>C</b>  | <b>PEMBUATAN MANUFACTURING</b>                                                                                                                                                                                                                | <b>100.0</b> | <b>104.3</b> | <b>110.7</b> | <b>115.6</b> | <b>120.1</b> | <b>116.9</b> | <b>128.1</b> | <b>138.5</b> |
| <b>1</b> | <b>8.55</b>          |           | <b>Makanan, Minuman dan Tembakau Food, Beverages and Tobacco</b>                                                                                                                                                                              | <b>100.0</b> | <b>102.1</b> | <b>113.2</b> | <b>116.9</b> | <b>120.2</b> | <b>118.5</b> | <b>120.5</b> | <b>127.6</b> |
| 1.1      | 7.39                 | 10        | Pembuatan produk makanan Manufacture of food products                                                                                                                                                                                         | 100.0        | 101.4        | 113.1        | 117.1        | 120.1        | 121.0        | 123.2        | 128.7        |
| 1.2      | 0.65                 | 11        | Pembuatan minuman Manufacture of beverages                                                                                                                                                                                                    | 100.0        | 109.9        | 119.9        | 123.6        | 127.2        | 108.7        | 119.4        | 135.3        |
| 1.3      | 0.52                 | 12        | Pembuatan produk tembakau Manufacture of tobacco products                                                                                                                                                                                     | 100.0        | 103.2        | 105.4        | 106.8        | 113.6        | 95.4         | 83.6         | 102.2        |
| <b>2</b> | <b>1.33</b>          |           | <b>Produk Tekstil, Pakaian, Kulit dan Kasut Textiles, Wearing Apparel, Leather Products and Footwear</b>                                                                                                                                      | <b>100.0</b> | <b>106.8</b> | <b>115.3</b> | <b>119.8</b> | <b>126.6</b> | <b>110.3</b> | <b>118.4</b> | <b>125.0</b> |
| 2.1      | 0.58                 | 13        | Pembuatan tekstil Manufacture of textiles                                                                                                                                                                                                     | 100.0        | 104.8        | 109.4        | 112.3        | 117.5        | 102.0        | 115.6        | 120.5        |
| 2.2      | 0.60                 | 14        | Pembuatan pakaian Manufacture of wearing apparel                                                                                                                                                                                              | 100.0        | 108.3        | 120.9        | 126.9        | 135.4        | 120.0        | 121.9        | 124.6        |
| 2.3      | 0.15                 | 15        | Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products                                                                                                                                                     | 100.0        | 108.5        | 115.5        | 119.7        | 125.9        | 103.4        | 115.3        | 144.7        |
| <b>3</b> | <b>4.56</b>          |           | <b>Produk Kayu, Perabot, Keluaran Kertas dan Percetakan Wood Products, Furniture, Paper Products and Printing</b>                                                                                                                             | <b>100.0</b> | <b>105.5</b> | <b>110.7</b> | <b>115.3</b> | <b>122.1</b> | <b>113.3</b> | <b>120.4</b> | <b>129.5</b> |
| 3.1      | 1.44                 | 16        | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials | 100.0        | 103.3        | 106.8        | 112.3        | 118.4        | 104.0        | 113.6        | 121.2        |
| 3.2      | 1.15                 | 17        | Pembuatan kertas dan produk kertas Manufacture of paper and paper products                                                                                                                                                                    | 100.0        | 104.5        | 110.3        | 114.6        | 120.0        | 116.5        | 133.8        | 143.9        |
| 3.3      | 0.93                 | 18        | Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media                                                                                                                                                    | 100.0        | 105.3        | 110.2        | 114.2        | 119.2        | 113.1        | 116.6        | 124.6        |
| 3.4      | 1.04                 | 31        | Pembuatan perabot Manufacture of furniture                                                                                                                                                                                                    | 100.0        | 110.0        | 116.7        | 121.4        | 132.0        | 122.8        | 118.3        | 129.5        |
| <b>4</b> | <b>20.60</b>         |           | <b>Produk Petroleum, Kimia, Getah dan Plastik Petroleum, Chemical, Rubber and Plastic Products</b>                                                                                                                                            | <b>100.0</b> | <b>104.1</b> | <b>108.3</b> | <b>112.3</b> | <b>115.9</b> | <b>115.0</b> | <b>130.1</b> | <b>131.3</b> |
| 4.1      | 9.36                 | 19        | Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products                                                                                                                                                | 100.0        | 103.1        | 106.7        | 110.0        | 113.2        | 101.2        | 112.9        | 120.0        |
| 4.2      | 6.37                 | 20        | Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products                                                                                                                                                               | 100.0        | 106.0        | 110.6        | 115.2        | 117.5        | 109.2        | 119.5        | 124.4        |
| 4.3      | 0.38                 | 21        | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceuticals, medicinal chemical and botanical products                                                                                               | 100.0        | 104.4        | 109.4        | 115.2        | 120.7        | 138.2        | 159.9        | 169.7        |
| 4.4      | 4.49                 | 22        | Pembuatan produk getah dan plastik Manufacture of rubber and plastics products                                                                                                                                                                | 100.0        | 103.6        | 108.4        | 112.7        | 118.9        | 150.2        | 178.4        | 161.2        |
| <b>5</b> | <b>9.11</b>          |           | <b>Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products</b>                                                                                           | <b>100.0</b> | <b>104.1</b> | <b>109.2</b> | <b>114.1</b> | <b>119.1</b> | <b>104.4</b> | <b>108.2</b> | <b>116.5</b> |
| 5.1      | 2.97                 | 23        | Pembuatan produk galian bukan logam lain Manufacture of other non-metallic mineral products                                                                                                                                                   | 100.0        | 104.4        | 109.1        | 114.7        | 120.3        | 103.1        | 104.2        | 113.7        |
| 5.2      | 2.35                 | 24        | Pembuatan logam asas Manufacture of basic metals                                                                                                                                                                                              | 100.0        | 102.1        | 107.6        | 111.8        | 116.6        | 111.0        | 114.2        | 121.9        |
| 5.3      | 3.79                 | 25        | Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment                                                                                                    | 100.0        | 105.0        | 110.1        | 115.1        | 119.8        | 101.3        | 107.7        | 115.3        |
| <b>6</b> | <b>18.23</b>         |           | <b>Produk Peralatan Elektrik dan Elektronik Electrical and Electronics Products</b>                                                                                                                                                           | <b>100.0</b> | <b>107.5</b> | <b>115.3</b> | <b>121.5</b> | <b>125.9</b> | <b>128.7</b> | <b>147.7</b> | <b>168.8</b> |
| 6.1      | 13.89                | 26        | Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products                                                                                                                                   | 100.0        | 108.1        | 116.2        | 123.3        | 127.7        | 130.9        | 151.3        | 175.4        |
| 6.2      | 2.20                 | 27        | Pembuatan kelengkapan elektrik Manufacture of electrical equipment                                                                                                                                                                            | 100.0        | 105.8        | 112.5        | 115.1        | 119.5        | 120.6        | 135.3        | 148.4        |
| 6.3      | 2.14                 | 28        | Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.                                                                                                                                                        | 100.0        | 105.5        | 112.5        | 116.9        | 121.4        | 122.8        | 137.1        | 146.7        |
| <b>7</b> | <b>5.87</b>          |           | <b>Kelengkapan Pengangkutan dan Pembuatan Lain Transport Equipment and Other Manufactures</b>                                                                                                                                                 | <b>100.0</b> | <b>97.3</b>  | <b>102.7</b> | <b>108.3</b> | <b>115.2</b> | <b>108.7</b> | <b>110.1</b> | <b>130.0</b> |
| 7.1      | 3.17                 | 29        | Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers                                                                                                                                | 100.0        | 95.3         | 99.9         | 105.8        | 113.9        | 112.0        | 112.9        | 141.7        |
| 7.2      | 1.19                 | 30        | Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment                                                                                                                                                              | 100.0        | 97.2         | 100.7        | 104.4        | 109.7        | 95.2         | 97.9         | 104.8        |
| 7.3      | 0.74                 | 32        | Pembuatan lain Other manufacturing                                                                                                                                                                                                            | 100.0        | 97.2         | 102.3        | 107.2        | 113.3        | 104.7        | 107.5        | 118.2        |
| 7.4      | 0.76                 | 33        | Membaiki dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment                                                                                                                                            | 100.0        | 105.9        | 117.8        | 125.7        | 131.2        | 120.0        | 119.9        | 132.1        |

**7b Indeks Pengeluaran Perindustrian Sektor Pembuatan mengikut Kumpulan - Suku Tahunan**  
*Industrial Production Index of Manufacturing Sector by Group - Quarterly*

| Bil.<br>No. | Wajaran<br>Weights<br>2015 | Kod<br>Codes | Keterangan Subsektor<br>Sub-sector Description                                                                                                     | 2017                                                                                                                                                                                                                                             |       |       |       | 2018  |       |       |       |
|-------------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|             |                            |              |                                                                                                                                                    | Q1                                                                                                                                                                                                                                               | Q2    | Q3    | Q4    | Q1    | Q2    | Q3    |       |
| 1           | 68.25                      | C            | PEMBUATAN<br>MANUFACTURING                                                                                                                         | 105.8                                                                                                                                                                                                                                            | 109.4 | 113.2 | 114.4 | 111.4 | 114.5 | 118.6 |       |
|             | 8.55                       |              | Makanan, Minuman dan Tembakau<br>Food, Beverages and Tobacco                                                                                       | 101.7                                                                                                                                                                                                                                            | 108.4 | 120.1 | 122.4 | 110.0 | 112.6 | 122.4 |       |
|             | 1.1                        | 7.39         | 10                                                                                                                                                 | Pembuatan produk makanan<br>Manufacture of food products                                                                                                                                                                                         | 100.4 | 107.4 | 121.1 | 123.5 | 109.7 | 111.5 | 123.2 |
|             | 1.2                        | 0.65         | 11                                                                                                                                                 | Pembuatan minuman<br>Manufacture of beverages                                                                                                                                                                                                    | 110.1 | 120.8 | 121.3 | 127.6 | 112.8 | 127.0 | 125.9 |
| 2           | 0.52                       | 12           | Pembuatan produk tembakau<br>Manufacture of tobacco products                                                                                       | 110.2                                                                                                                                                                                                                                            | 107.7 | 104.0 | 99.5  | 110.0 | 109.6 | 106.8 |       |
|             | 1.33                       |              | Produk Tekstil, Pakaian, Kulit dan Kasut<br>Textiles, Wearing Apparel, Leather Products and Footwear                                               | 109.2                                                                                                                                                                                                                                            | 116.7 | 112.4 | 122.7 | 116.5 | 121.3 | 115.7 |       |
|             | 2.1                        | 0.58         | 13                                                                                                                                                 | Pembuatan tekstil<br>Manufacture of textiles                                                                                                                                                                                                     | 104.4 | 110.6 | 110.8 | 111.7 | 109.5 | 113.4 | 113.1 |
|             | 2.2                        | 0.60         | 14                                                                                                                                                 | Pembuatan pakaian<br>Manufacture of wearing apparel                                                                                                                                                                                              | 111.3 | 121.9 | 114.8 | 135.5 | 121.0 | 128.0 | 118.8 |
| 3           | 0.15                       | 15           | Pembuatan produk kulit dan barangan berkaitan<br>Manufacture of leather and related products                                                       | 119.7                                                                                                                                                                                                                                            | 119.0 | 109.2 | 114.0 | 125.1 | 125.2 | 113.0 |       |
|             | 4.56                       |              | Produk Kayu, Perabot, Keluaran Kertas dan Percetakan<br>Wood Products, Furniture, Paper Products and Printing                                      | 110.0                                                                                                                                                                                                                                            | 109.3 | 108.9 | 114.4 | 114.5 | 113.3 | 115.7 |       |
|             | 3.1                        | 1.44         | 16                                                                                                                                                 | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman<br>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials | 105.5 | 107.3 | 103.3 | 111.2 | 111.8 | 111.4 | 110.6 |
|             | 3.2                        | 1.15         | 17                                                                                                                                                 | Pembuatan kertas dan produk kertas<br>Manufacture of paper and paper products                                                                                                                                                                    | 111.3 | 108.8 | 107.0 | 114.2 | 115.4 | 115.0 | 112.5 |
| 4           | 0.93                       | 18           | Percetakan dan penerbitan semula media rakaman<br>Printing and reproduction of recorded media                                                      | 103.2                                                                                                                                                                                                                                            | 109.7 | 110.8 | 117.0 | 107.1 | 112.6 | 116.0 |       |
|             | 1.04                       | 31           | Pembuatan perabot<br>Manufacture of furniture                                                                                                      | 121.0                                                                                                                                                                                                                                            | 112.2 | 117.0 | 116.7 | 123.7 | 114.7 | 126.2 |       |
|             | 20.60                      |              | Produk Petroleum, Kimia, Getah dan Plastik<br>Petroleum, Chemical, Rubber and Plastic Products                                                     | 106.2                                                                                                                                                                                                                                            | 107.1 | 108.1 | 111.8 | 111.3 | 111.1 | 112.2 |       |
|             | 4.1                        | 9.36         | 19                                                                                                                                                 | Pembuatan kok dan produk petroleum bertapis<br>Manufacture of coke and refined petroleum products                                                                                                                                                | 108.6 | 104.8 | 103.0 | 110.2 | 113.4 | 107.3 | 105.3 |
| 5           | 6.37                       | 20           | Pembuatan kimia dan produk kimia<br>Manufacture of chemicals and chemical products                                                                 | 104.8                                                                                                                                                                                                                                            | 110.6 | 113.1 | 113.8 | 111.6 | 116.7 | 118.1 |       |
|             | 0.38                       | 21           | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products | 97.8                                                                                                                                                                                                                                             | 113.3 | 114.7 | 111.9 | 105.5 | 119.0 | 121.2 |       |
|             | 4.49                       | 22           | Pembuatan produk getah dan plastik<br>Manufacture of rubber and plastics products                                                                  | 103.9                                                                                                                                                                                                                                            | 106.4 | 111.2 | 112.1 | 107.0 | 110.3 | 117.4 |       |
|             | 9.11                       |              | Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka<br>Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products    | 104.6                                                                                                                                                                                                                                            | 109.5 | 111.7 | 110.8 | 110.1 | 115.1 | 117.3 |       |
| 6           | 2.97                       | 23           | Pembuatan produk galian bukan logam lain<br>Manufacture of other non-metallic mineral products                                                     | 103.3                                                                                                                                                                                                                                            | 108.0 | 110.3 | 114.8 | 109.6 | 114.2 | 117.0 |       |
|             | 2.35                       | 24           | Pembuatan logam asas<br>Manufacture of basic metals                                                                                                | 101.3                                                                                                                                                                                                                                            | 109.4 | 113.1 | 106.8 | 107.0 | 113.0 | 117.3 |       |
|             | 3.79                       | 25           | Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan<br>Manufacture of fabricated metal products, except machinery and equipment      | 107.7                                                                                                                                                                                                                                            | 110.7 | 111.9 | 110.2 | 112.4 | 117.1 | 117.6 |       |
|             | 18.23                      |              | Produk Peralatan Elektrik dan Elektronik<br>Electrical and Electronics Products                                                                    | 105.9                                                                                                                                                                                                                                            | 115.5 | 120.8 | 119.1 | 111.9 | 122.1 | 128.1 |       |
| 7           | 13.89                      | 26           | Pembuatan komputer, produk elektronik dan optikal<br>Manufacture of computer, electronics and optical products                                     | 105.0                                                                                                                                                                                                                                            | 114.4 | 122.4 | 123.1 | 111.5 | 121.6 | 131.1 |       |
|             | 2.20                       | 27           | Pembuatan kelengkapan elektrik<br>Manufacture of electrical equipment                                                                              | 107.2                                                                                                                                                                                                                                            | 117.2 | 115.4 | 110.3 | 109.8 | 119.9 | 118.5 |       |
|             | 2.14                       | 28           | Pembuatan jentera dan peralatan t.t.t.l.<br>Manufacture of machinery and equipment n.e.c.                                                          | 110.2                                                                                                                                                                                                                                            | 120.9 | 116.5 | 102.4 | 116.4 | 127.5 | 118.5 |       |
|             | 5.87                       |              | Kelengkapan Pengangkutan dan Pembuatan Lain<br>Transport Equipment and Other Manufactures                                                          | 108.1                                                                                                                                                                                                                                            | 98.6  | 103.6 | 100.5 | 110.6 | 104.4 | 111.4 |       |
|             | 3.17                       | 29           | Pembuatan kenderaan bermotor, treler dan semi treler<br>Manufacture of motor vehicles, trailers and semi-trailers                                  | 112.9                                                                                                                                                                                                                                            | 94.9  | 93.4  | 98.4  | 113.5 | 101.8 | 102.9 |       |
|             | 1.19                       | 30           | Pembuatan kelengkapan pengangkutan lain<br>Manufacture of other transport equipment                                                                | 99.5                                                                                                                                                                                                                                             | 96.0  | 108.9 | 98.5  | 102.6 | 98.5  | 113.0 |       |
|             | 0.74                       | 32           | Pembuatan lain<br>Other manufacturing                                                                                                              | 104.8                                                                                                                                                                                                                                            | 97.0  | 107.0 | 100.3 | 107.9 | 102.0 | 114.1 |       |
|             | 0.76                       | 33           | Membaiki dan pemasangan jentera dan kelengkapan<br>Repair and installation of machinery and equipment                                              | 104.8                                                                                                                                                                                                                                            | 119.6 | 134.2 | 112.6 | 113.8 | 126.3 | 141.8 |       |

**7b Indeks Pengeluaran Perindustrian Sektor Pembuatan mengikut Kumpulan - Suku Tahunan**  
*Industrial Production Index of Manufacturing Sector by Group - Quarterly*

| Bil.<br>No. | Wajaran<br>Weights<br>2015 | Kod<br>Codes | Keterangan Subsektor<br>Sub-sector Description                                                                                      | 2018         | 2019         |              |              | 2020         |              |              |
|-------------|----------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|             |                            |              |                                                                                                                                     | Q4           | Q1           | Q2           | Q3           | Q4           | Q1           | Q2           |
|             | <b>68.25</b>               | <b>C</b>     | <b>PEMBUATAN</b>                                                                                                                    | <b>119.5</b> | <b>115.9</b> | <b>119.2</b> | <b>122.6</b> | <b>122.8</b> | <b>117.3</b> | <b>97.7</b>  |
|             |                            |              | <b>MANUFACTURING</b>                                                                                                                |              |              |              |              |              |              |              |
| <b>1</b>    | <b>8.55</b>                |              | <b>Makanan, Minuman dan Tembakau</b>                                                                                                | <b>122.3</b> | <b>115.7</b> | <b>117.3</b> | <b>124.3</b> | <b>123.7</b> | <b>111.1</b> | <b>116.6</b> |
|             |                            |              | <b>Food, Beverages and Tobacco</b>                                                                                                  |              |              |              |              |              |              |              |
| 1.1         | 7.39                       | 10           | Pembuatan produk makanan                                                                                                            | 123.0        | 115.5        | 116.2        | 124.7        | 124.0        | 110.6        | 125.4        |
|             |                            |              | <i>Manufacture of food products</i>                                                                                                 |              |              |              |              |              |              |              |
| 1.2         | 0.65                       | 11           | Pembuatan minuman                                                                                                                   | 129.0        | 115.0        | 131.1        | 129.8        | 132.8        | 114.1        | 81.0         |
|             |                            |              | <i>Manufacture of beverages</i>                                                                                                     |              |              |              |              |              |              |              |
| 1.3         | 0.52                       | 12           | Pembuatan produk tembakau                                                                                                           | 102.8        | 118.9        | 115.8        | 111.6        | 108.0        | 114.9        | 35.8         |
|             |                            |              | <i>Manufacture of tobacco products</i>                                                                                              |              |              |              |              |              |              |              |
| <b>2</b>    | <b>1.33</b>                |              | <b>Produk Tekstil, Pakaian, Kulit dan Kasut</b>                                                                                     | <b>127.3</b> | <b>121.9</b> | <b>128.2</b> | <b>121.8</b> | <b>134.4</b> | <b>125.4</b> | <b>73.5</b>  |
|             |                            |              | <b>Textiles, Wearing Apparel, Leather Products and Footwear</b>                                                                     |              |              |              |              |              |              |              |
| 2.1         | 0.58                       | 13           | Pembuatan tekstil                                                                                                                   | 114.1        | 113.4        | 120.1        | 118.2        | 118.1        | 116.0        | 71.9         |
|             |                            |              | <i>Manufacture of textiles</i>                                                                                                      |              |              |              |              |              |              |              |
| 2.2         | 0.60                       | 14           | Pembuatan pakaian                                                                                                                   | 142.8        | 128.2        | 134.8        | 125.6        | 153.1        | 132.5        | 75.4         |
|             |                            |              | <i>Manufacture of wearing apparel</i>                                                                                               |              |              |              |              |              |              |              |
| 2.3         | 0.15                       | 15           | Pembuatan produk kulit dan barangan berkaitan                                                                                       | 116.1        | 129.2        | 132.5        | 119.9        | 122.0        | 132.8        | 72.2         |
|             |                            |              | <i>Manufacture of leather and related products</i>                                                                                  |              |              |              |              |              |              |              |
| <b>3</b>    | <b>4.56</b>                |              | <b>Produk Kayu, Perabot, Keluaran Kertas dan Percetakan</b>                                                                         | <b>119.9</b> | <b>120.6</b> | <b>119.5</b> | <b>122.3</b> | <b>125.8</b> | <b>121.9</b> | <b>80.0</b>  |
|             |                            |              | <b>Wood Products, Furniture, Paper Products and Printing</b>                                                                        |              |              |              |              |              |              |              |
| 3.1         | 1.44                       | 16           | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman                    | 117.7        | 117.4        | 116.4        | 117.0        | 122.8        | 120.1        | 67.8         |
|             |                            |              | <i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> |              |              |              |              |              |              |              |
| 3.2         | 1.15                       | 17           | Pembuatan kertas dan produk kertas                                                                                                  | 117.1        | 119.5        | 120.5        | 117.6        | 122.2        | 118.2        | 96.5         |
|             |                            |              | <i>Manufacture of paper and paper products</i>                                                                                      |              |              |              |              |              |              |              |
| 3.3         | 0.93                       | 18           | Percetakan dan penerbitan semula media rakaman                                                                                      | 122.0        | 112.5        | 117.7        | 122.1        | 124.4        | 114.7        | 83.3         |
|             |                            |              | <i>Printing and reproduction of recorded media</i>                                                                                  |              |              |              |              |              |              |              |
| 3.4         | 1.04                       | 31           | Pembuatan perabot                                                                                                                   | 124.0        | 133.6        | 124.2        | 135.0        | 135.3        | 135.0        | 75.6         |
|             |                            |              | <i>Manufacture of furniture</i>                                                                                                     |              |              |              |              |              |              |              |
| <b>4</b>    | <b>20.60</b>               |              | <b>Produk Petroleum, Kimia, Getah dan Plastik</b>                                                                                   | <b>115.9</b> | <b>114.8</b> | <b>114.7</b> | <b>115.4</b> | <b>118.8</b> | <b>120.0</b> | <b>98.8</b>  |
|             |                            |              | <b>Petroleum, Chemical, Rubber and Plastic Products</b>                                                                             |              |              |              |              |              |              |              |
| 4.1         | 9.36                       | 19           | Pembuatan kok dan produk petroleum bertapis                                                                                         | 114.7        | 116.6        | 110.4        | 108.5        | 117.3        | 120.8        | 78.8         |
|             |                            |              | <i>Manufacture of coke and refined petroleum products</i>                                                                           |              |              |              |              |              |              |              |
| 4.2         | 6.37                       | 20           | Pembuatan kimia dan produk kimia                                                                                                    | 115.4        | 113.4        | 119.0        | 120.4        | 117.3        | 115.5        | 96.8         |
|             |                            |              | <i>Manufacture of chemicals and chemical products</i>                                                                               |              |              |              |              |              |              |              |
| 4.3         | 0.38                       | 21           | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani                                                                     | 117.9        | 112.1        | 123.6        | 125.6        | 121.5        | 117.0        | 140.0        |
|             |                            |              | <i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                              |              |              |              |              |              |              |              |
| 4.4         | 4.49                       | 22           | Pembuatan produk getah dan plastik                                                                                                  | 118.9        | 113.2        | 116.7        | 121.8        | 124.0        | 125.0        | 139.8        |
|             |                            |              | <i>Manufacture of rubber and plastics products</i>                                                                                  |              |              |              |              |              |              |              |
| <b>5</b>    | <b>9.11</b>                |              | <b>Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka</b>                                                          | <b>115.5</b> | <b>114.6</b> | <b>119.9</b> | <b>122.2</b> | <b>119.8</b> | <b>114.5</b> | <b>71.6</b>  |
|             |                            |              | <b>Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products</b>                                                     |              |              |              |              |              |              |              |
| 5.1         | 2.97                       | 23           | Pembuatan produk galian bukan logam lain                                                                                            | 119.6        | 115.0        | 119.4        | 122.2        | 124.6        | 114.4        | 63.2         |
|             |                            |              | <i>Manufacture of other non-metallic mineral products</i>                                                                           |              |              |              |              |              |              |              |
| 5.2         | 2.35                       | 24           | Pembuatan logam asas                                                                                                                | 111.1        | 110.5        | 117.4        | 121.9        | 116.5        | 111.5        | 85.7         |
|             |                            |              | <i>Manufacture of basic metals</i>                                                                                                  |              |              |              |              |              |              |              |
| 5.3         | 3.79                       | 25           | Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan                                                                   | 115.0        | 116.8        | 121.9        | 122.3        | 118.2        | 116.5        | 69.4         |
|             |                            |              | <i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                     |              |              |              |              |              |              |              |
| <b>6</b>    | <b>18.23</b>               |              | <b>Produk Peralatan Elektrik dan Elektronik</b>                                                                                     | <b>126.9</b> | <b>115.5</b> | <b>126.7</b> | <b>131.8</b> | <b>129.7</b> | <b>117.3</b> | <b>114.1</b> |
|             |                            |              | <b>Electrical and Electronics Products</b>                                                                                          |              |              |              |              |              |              |              |
| 6.1         | 13.89                      | 26           | Pembuatan komputer, produk elektronik dan optikal                                                                                   | 132.0        | 115.0        | 126.6        | 134.8        | 134.2        | 117.5        | 112.2        |
|             |                            |              | <i>Manufacture of computer, electronics and optical products</i>                                                                    |              |              |              |              |              |              |              |
| 6.2         | 2.20                       | 27           | Pembuatan kelengkapan elektrik                                                                                                      | 114.0        | 115.6        | 122.8        | 120.9        | 118.5        | 114.3        | 112.5        |
|             |                            |              | <i>Manufacture of electrical equipment</i>                                                                                          |              |              |              |              |              |              |              |
| 6.3         | 2.14                       | 28           | Pembuatan jentera dan peralatan t.t.t.l.                                                                                            | 106.9        | 118.8        | 131.3        | 123.9        | 111.7        | 118.8        | 127.9        |
|             |                            |              | <i>Manufacture of machinery and equipment n.e.c.</i>                                                                                |              |              |              |              |              |              |              |
| <b>7</b>    | <b>5.87</b>                |              | <b>Kelengkapan Pengangkutan dan Pembuatan Lain</b>                                                                                  | <b>109.0</b> | <b>117.8</b> | <b>111.2</b> | <b>118.1</b> | <b>113.9</b> | <b>115.9</b> | <b>74.9</b>  |
|             |                            |              | <b>Transport Equipment and Other Manufactures</b>                                                                                   |              |              |              |              |              |              |              |
| 7.1         | 3.17                       | 29           | Pembuatan kenderaan bermotor, treler dan semi treler                                                                                | 107.8        | 121.2        | 110.9        | 111.0        | 112.6        | 119.2        | 76.5         |
|             |                            |              | <i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                    |              |              |              |              |              |              |              |
| 7.2         | 1.19                       | 30           | Pembuatan kelengkapan pengangkutan lain                                                                                             | 104.7        | 108.6        | 103.2        | 118.6        | 108.3        | 105.2        | 65.3         |
|             |                            |              | <i>Manufacture of other transport equipment</i>                                                                                     |              |              |              |              |              |              |              |
| 7.3         | 0.74                       | 32           | Pembuatan lain                                                                                                                      | 106.4        | 113.2        | 106.5        | 118.4        | 115.1        | 113.7        | 63.2         |
|             |                            |              | <i>Other manufacturing</i>                                                                                                          |              |              |              |              |              |              |              |
| 7.4         | 0.76                       | 33           | Mbaiki dan pemasangan jentera dan kelengkapan                                                                                       | 123.2        | 122.0        | 129.6        | 146.2        | 127.0        | 121.1        | 94.8         |
|             |                            |              | <i>Repair and installation of machinery and equipment</i>                                                                           |              |              |              |              |              |              |              |

|  | 2021  |       |       |       |       | 2022  |       |       |       | 2023  |       |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | Q3    | Q4    | Q1    | Q2    | Q3    | Q4    | Q1    | Q2    | Q3    | Q4    | Q1    | Q2    | Q3    |
|  | 126.5 | 126.3 | 125.3 | 123.4 | 125.6 | 137.9 | 133.2 | 134.8 | 142.5 | 143.5 | 137.7 | 134.9 | 142.3 |
|  | 130.9 | 115.5 | 111.0 | 118.9 | 124.2 | 127.9 | 117.3 | 125.5 | 135.4 | 132.1 | 126.0 | 129.4 | 141.2 |
|  | 133.1 | 114.9 | 109.7 | 122.9 | 132.5 | 127.6 | 115.9 | 125.9 | 139.7 | 133.2 | 124.8 | 128.7 | 145.6 |
|  | 116.9 | 122.8 | 116.3 | 112.3 | 111.7 | 137.5 | 125.1 | 137.7 | 137.6 | 140.7 | 123.2 | 140.4 | 138.8 |
|  | 117.3 | 113.7 | 122.6 | 69.5  | 21.3  | 121.1 | 127.6 | 104.2 | 71.4  | 105.4 | 147.4 | 125.2 | 81.3  |
|  | 110.5 | 132.0 | 128.3 | 102.6 | 104.9 | 137.9 | 134.7 | 110.1 | 118.1 | 137.3 | 135.7 | 114.3 | 118.5 |
|  | 104.5 | 115.6 | 121.4 | 105.5 | 109.4 | 125.9 | 129.5 | 109.5 | 118.6 | 124.4 | 125.0 | 105.7 | 111.3 |
|  | 120.7 | 151.6 | 132.0 | 94.5  | 107.6 | 153.7 | 137.7 | 100.5 | 111.6 | 148.4 | 141.4 | 109.9 | 117.8 |
|  | 92.4  | 116.1 | 139.7 | 124.7 | 76.7  | 120.0 | 143.1 | 151.6 | 142.3 | 142.0 | 153.9 | 165.9 | 149.6 |
|  | 122.5 | 128.8 | 127.6 | 111.3 | 106.3 | 136.4 | 136.4 | 124.6 | 124.3 | 132.8 | 131.2 | 123.3 | 125.4 |
|  | 107.0 | 121.2 | 119.2 | 105.7 | 97.7  | 131.9 | 130.3 | 117.9 | 116.0 | 120.8 | 119.0 | 111.9 | 112.8 |
|  | 123.2 | 128.2 | 130.8 | 121.9 | 133.5 | 149.0 | 142.0 | 132.5 | 149.4 | 151.5 | 147.3 | 136.9 | 153.6 |
|  | 126.0 | 128.5 | 119.5 | 107.2 | 109.4 | 130.5 | 121.7 | 119.7 | 118.7 | 138.2 | 126.2 | 127.6 | 129.4 |
|  | 140.2 | 140.4 | 142.7 | 111.1 | 85.6  | 133.7 | 151.7 | 129.5 | 113.0 | 123.7 | 134.5 | 120.3 | 107.9 |
|  | 117.8 | 123.4 | 131.0 | 127.7 | 131.3 | 130.3 | 130.2 | 126.6 | 136.9 | 131.5 | 132.9 | 124.3 | 132.9 |
|  | 98.0  | 107.1 | 113.7 | 105.9 | 115.6 | 116.3 | 118.6 | 110.7 | 128.4 | 122.3 | 128.0 | 108.7 | 117.5 |
|  | 111.4 | 113.1 | 120.7 | 112.9 | 119.5 | 125.0 | 125.7 | 120.1 | 124.6 | 127.2 | 129.2 | 125.9 | 133.3 |
|  | 154.5 | 141.5 | 142.1 | 155.1 | 173.4 | 169.1 | 156.2 | 162.7 | 185.6 | 174.3 | 165.3 | 163.1 | 176.1 |
|  | 165.4 | 170.5 | 181.0 | 191.8 | 177.3 | 163.6 | 158.3 | 166.0 | 167.8 | 152.9 | 145.9 | 151.4 | 160.9 |
|  | 114.0 | 117.5 | 115.9 | 95.5  | 97.5  | 123.9 | 122.6 | 105.9 | 110.9 | 126.5 | 126.8 | 111.8 | 117.1 |
|  | 112.2 | 122.6 | 117.3 | 86.7  | 88.0  | 124.7 | 124.4 | 98.7  | 104.6 | 127.1 | 128.8 | 101.5 | 109.8 |
|  | 126.2 | 120.7 | 115.6 | 104.1 | 109.2 | 127.7 | 123.9 | 115.3 | 120.7 | 127.8 | 126.0 | 120.9 | 124.1 |
|  | 107.8 | 111.5 | 115.0 | 97.1  | 97.7  | 121.0 | 120.3 | 105.9 | 109.7 | 125.2 | 125.8 | 114.1 | 118.5 |
|  | 143.6 | 139.8 | 129.6 | 145.1 | 153.1 | 162.8 | 149.5 | 167.8 | 179.8 | 178.0 | 155.0 | 165.3 | 175.5 |
|  | 147.6 | 146.1 | 131.5 | 145.1 | 157.8 | 170.6 | 153.7 | 171.8 | 187.5 | 188.7 | 160.2 | 168.4 | 182.9 |
|  | 131.6 | 123.9 | 122.3 | 138.6 | 137.3 | 142.8 | 142.2 | 152.3 | 151.4 | 147.6 | 141.8 | 153.1 | 151.8 |
|  | 129.5 | 115.0 | 124.8 | 151.3 | 138.8 | 133.4 | 130.2 | 157.7 | 158.9 | 140.0 | 135.1 | 157.6 | 151.7 |
|  | 123.1 | 120.8 | 124.8 | 104.9 | 85.7  | 125.0 | 130.4 | 133.1 | 125.5 | 131.0 | 140.2 | 135.2 | 131.5 |
|  | 124.6 | 127.5 | 135.2 | 111.9 | 74.0  | 130.4 | 141.2 | 153.7 | 134.9 | 137.1 | 156.0 | 153.2 | 143.0 |
|  | 106.5 | 103.9 | 104.6 | 84.1  | 96.2  | 106.8 | 107.3 | 92.8  | 106.4 | 112.7 | 110.1 | 97.3  | 109.1 |
|  | 125.5 | 116.4 | 115.1 | 99.6  | 92.7  | 122.5 | 119.9 | 115.2 | 111.7 | 126.0 | 122.6 | 119.1 | 112.5 |
|  | 140.4 | 123.7 | 122.3 | 113.2 | 110.9 | 133.2 | 131.4 | 128.1 | 129.4 | 139.4 | 138.4 | 135.1 | 136.7 |

**7c Indeks Pengeluaran Perindustrian Sektor Pembuatan mengikut Kumpulan -Bulanan**  
*Industrial Production Index of Manufacturing Sector by Group - Monthly*

| Bil.<br>No. | Wajaran<br>Weights<br>2015 | Kod<br>Codes | Keterangan Subsektor<br>Sub-sector Description                                                                                                                                                                                                  | 2017         |              |              |              |              |              |              |              |              |
|-------------|----------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|             |                            |              |                                                                                                                                                                                                                                                 | Jan.         | Feb.         | Mac          | Apr.         | Mei          | Jun          | Jul.         | Ogo.         | Sep.         |
|             | <b>68.25</b>               | <b>C</b>     | <b>PEMBUATAN<br/>MANUFACTURING</b>                                                                                                                                                                                                              | <b>108.3</b> | <b>99.7</b>  | <b>109.5</b> | <b>105.9</b> | <b>110.6</b> | <b>111.8</b> | <b>113.1</b> | <b>113.0</b> | <b>113.7</b> |
| <b>1</b>    | <b>8.55</b>                |              | <b>Makanan, Minuman dan Tembakau<br/>Food, Beverages and Tobacco</b>                                                                                                                                                                            | <b>101.2</b> | <b>98.8</b>  | <b>105.2</b> | <b>109.5</b> | <b>110.6</b> | <b>105.2</b> | <b>124.2</b> | <b>120.1</b> | <b>115.9</b> |
| 1.1         | 7.39                       | 10           | Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                 | 99.4         | 97.7         | 104.1        | 109.6        | 109.7        | 102.9        | 125.9        | 120.8        | 116.6        |
| 1.2         | 0.65                       | 11           | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                            | 115.6        | 102.4        | 112.3        | 111.8        | 123.0        | 127.4        | 120.7        | 122.3        | 121.0        |
| 1.3         | 0.52                       | 12           | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                             | 109.7        | 109.3        | 111.6        | 105.2        | 107.7        | 110.2        | 104.6        | 107.5        | 99.8         |
| <b>2</b>    | <b>1.33</b>                |              | <b>Produk Tekstil, Pakaian, Kulit dan Kasut<br/>Textiles, Wearing Apparel, Leather Products and Footwear</b>                                                                                                                                    | <b>106.8</b> | <b>106.8</b> | <b>114.1</b> | <b>113.0</b> | <b>123.2</b> | <b>113.8</b> | <b>109.5</b> | <b>110.0</b> | <b>117.8</b> |
| 2.1         | 0.58                       | 13           | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                             | 99.7         | 105.0        | 108.4        | 108.7        | 112.9        | 110.3        | 109.4        | 108.1        | 114.8        |
| 2.2         | 0.60                       | 14           | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                      | 109.1        | 106.7        | 118.0        | 115.3        | 132.5        | 117.9        | 109.2        | 111.8        | 123.4        |
| 2.3         | 0.15                       | 15           | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                             | 124.6        | 114.5        | 120.1        | 120.1        | 125.4        | 111.3        | 111.1        | 110.0        | 106.4        |
| <b>3</b>    | <b>4.56</b>                |              | <b>Produk Kayu, Perabot, Keluaran Kertas dan Percetakan<br/>Wood Products, Furniture, Paper Products and Printing</b>                                                                                                                           | <b>110.8</b> | <b>108.3</b> | <b>111.0</b> | <b>108.3</b> | <b>109.9</b> | <b>109.7</b> | <b>108.5</b> | <b>107.6</b> | <b>110.7</b> |
| 3.1         | 1.44                       | 16           | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 104.0        | 103.6        | 108.9        | 108.9        | 106.5        | 106.4        | 103.6        | 103.1        | 103.3        |
| 3.2         | 1.15                       | 17           | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                            | 112.9        | 109.1        | 111.8        | 113.7        | 109.2        | 103.4        | 103.2        | 100.1        | 117.8        |
| 3.3         | 0.93                       | 18           | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                            | 110.3        | 102.4        | 96.9         | 107.3        | 105.3        | 116.4        | 115.0        | 109.5        | 107.9        |
| 3.4         | 1.04                       | 31           | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 118.2        | 119.2        | 125.7        | 102.3        | 119.3        | 115.0        | 115.1        | 120.5        | 115.4        |
| <b>4</b>    | <b>20.60</b>               |              | <b>Produk Petroleum, Kimia, Getah dan Plastik<br/>Petroleum, Chemical, Rubber and Plastic Products</b>                                                                                                                                          | <b>105.5</b> | <b>102.6</b> | <b>110.5</b> | <b>102.3</b> | <b>109.4</b> | <b>109.6</b> | <b>108.3</b> | <b>107.2</b> | <b>108.8</b> |
| 4.1         | 9.36                       | 19           | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                        | 108.8        | 104.3        | 112.9        | 97.3         | 107.6        | 109.5        | 105.6        | 100.0        | 103.3        |
| 4.2         | 6.37                       | 20           | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                       | 102.3        | 101.3        | 110.8        | 108.0        | 111.3        | 112.6        | 110.0        | 114.8        | 114.6        |
| 4.3         | 0.38                       | 21           | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                       | 89.4         | 99.7         | 104.4        | 113.3        | 127.5        | 99.1         | 112.0        | 110.9        | 121.2        |
| 4.4         | 4.49                       | 22           | Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                        | 104.5        | 101.4        | 105.8        | 103.9        | 109.0        | 106.3        | 111.3        | 111.2        | 111.2        |
| <b>5</b>    | <b>9.11</b>                |              | <b>Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka<br/>Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products</b>                                                                                         | <b>108.4</b> | <b>97.1</b>  | <b>108.4</b> | <b>107.6</b> | <b>109.2</b> | <b>111.7</b> | <b>114.1</b> | <b>111.0</b> | <b>110.1</b> |
| 5.1         | 2.97                       | 23           | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                           | 103.8        | 97.1         | 109.1        | 105.9        | 107.4        | 110.8        | 109.8        | 112.1        | 109.1        |
| 5.2         | 2.35                       | 24           | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                      | 98.3         | 97.6         | 107.9        | 107.7        | 107.4        | 113.1        | 118.1        | 110.9        | 110.4        |
| 5.3         | 3.79                       | 25           | Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                            | 118.2        | 96.7         | 108.1        | 108.8        | 111.8        | 111.6        | 115.1        | 110.2        | 110.6        |
| <b>6</b>    | <b>18.23</b>               |              | <b>Produk Peralatan Elektrik dan Elektronik<br/>Electrical and Electronics Products</b>                                                                                                                                                         | <b>113.0</b> | <b>94.7</b>  | <b>110.0</b> | <b>109.0</b> | <b>115.7</b> | <b>121.8</b> | <b>119.4</b> | <b>120.1</b> | <b>123.0</b> |
| 6.1         | 13.89                      | 26           | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                           | 114.9        | 92.1         | 108.1        | 105.6        | 114.2        | 123.3        | 120.3        | 120.5        | 126.2        |
| 6.2         | 2.20                       | 27           | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                    | 110.7        | 99.1         | 111.7        | 115.0        | 116.9        | 119.7        | 112.0        | 114.0        | 120.4        |
| 6.3         | 2.14                       | 28           | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                | 103.4        | 107.1        | 120.1        | 124.6        | 123.8        | 114.4        | 121.4        | 123.7        | 104.3        |
| <b>7</b>    | <b>5.87</b>                |              | <b>Kelengkapan Pengangkutan dan Pembuatan Lain<br/>Transport Equipment and Other Manufactures</b>                                                                                                                                               | <b>111.7</b> | <b>102.4</b> | <b>110.2</b> | <b>97.7</b>  | <b>98.5</b>  | <b>99.7</b>  | <b>96.8</b>  | <b>108.4</b> | <b>105.6</b> |
| 7.1         | 3.17                       | 29           | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                        | 119.5        | 111.0        | 108.2        | 97.6         | 93.9         | 93.3         | 89.6         | 98.3         | 92.4         |
| 7.2         | 1.19                       | 30           | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                      | 99.3         | 86.4         | 113.0        | 92.6         | 97.4         | 97.9         | 82.1         | 126.3        | 118.3        |
| 7.3         | 0.74                       | 32           | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                    | 110.6        | 100.7        | 103.0        | 96.0         | 93.8         | 101.3        | 102.6        | 104.4        | 114.1        |
| 7.4         | 0.76                       | 33           | Mbaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                      | 99.8         | 93.0         | 121.6        | 107.8        | 123.4        | 127.6        | 143.8        | 126.6        | 132.0        |

| 2018  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Okt.  | Nov.  | Dis.  | Jan.  | Feb.  | Mac   | Apr.  | Mei   | Jun   | Jul.  | Ogo.  | Sep.  | Okt.  | Nov.  | Dis.  |
| 115.5 | 113.9 | 113.7 | 115.7 | 104.4 | 114.0 | 111.6 | 115.1 | 116.9 | 119.0 | 117.8 | 119.1 | 121.7 | 118.1 | 118.7 |
| 120.2 | 121.9 | 125.2 | 117.5 | 100.9 | 111.6 | 114.6 | 114.3 | 108.8 | 120.7 | 122.6 | 123.9 | 123.3 | 119.8 | 123.8 |
| 121.2 | 122.8 | 126.6 | 117.9 | 100.0 | 111.4 | 114.6 | 113.4 | 106.5 | 121.2 | 123.2 | 125.1 | 124.4 | 120.3 | 124.4 |
| 127.4 | 126.4 | 129.1 | 119.1 | 104.3 | 115.0 | 120.5 | 128.0 | 132.6 | 125.2 | 126.5 | 126.2 | 128.8 | 127.6 | 130.8 |
| 95.6  | 103.7 | 99.3  | 110.1 | 109.5 | 110.3 | 106.9 | 109.6 | 112.3 | 107.3 | 109.9 | 103.2 | 100.9 | 102.1 | 105.5 |
| 121.5 | 126.6 | 120.2 | 116.9 | 114.4 | 118.1 | 117.4 | 125.9 | 120.8 | 113.5 | 113.2 | 120.4 | 124.1 | 132.7 | 125.2 |
| 111.8 | 120.9 | 102.2 | 107.4 | 110.0 | 111.2 | 111.1 | 114.8 | 114.4 | 111.5 | 110.4 | 117.5 | 113.9 | 123.8 | 104.5 |
| 135.2 | 134.1 | 137.3 | 122.9 | 117.7 | 122.6 | 121.0 | 135.4 | 127.5 | 114.9 | 116.0 | 125.4 | 138.0 | 144.7 | 145.7 |
| 103.7 | 117.8 | 120.5 | 129.5 | 118.7 | 127.0 | 127.5 | 130.2 | 117.8 | 115.2 | 112.5 | 111.3 | 107.2 | 118.7 | 122.2 |
| 110.0 | 115.0 | 118.2 | 115.5 | 112.2 | 115.7 | 111.6 | 112.8 | 115.6 | 115.0 | 114.4 | 117.7 | 117.2 | 118.2 | 124.2 |
| 107.4 | 112.4 | 113.9 | 111.8 | 111.2 | 112.5 | 112.8 | 110.0 | 111.4 | 108.7 | 111.0 | 111.9 | 116.5 | 116.5 | 120.2 |
| 106.3 | 115.3 | 121.0 | 117.8 | 111.8 | 116.7 | 118.0 | 115.5 | 111.5 | 112.5 | 106.5 | 118.4 | 109.7 | 115.7 | 125.9 |
| 109.0 | 113.8 | 128.2 | 110.5 | 105.9 | 104.8 | 108.0 | 108.7 | 121.2 | 119.8 | 115.3 | 112.9 | 114.6 | 120.2 | 131.2 |
| 118.5 | 119.2 | 112.3 | 122.6 | 119.8 | 128.7 | 105.9 | 117.4 | 120.9 | 122.1 | 127.2 | 129.2 | 128.7 | 121.7 | 121.5 |
| 113.8 | 110.5 | 111.0 | 112.0 | 109.8 | 112.1 | 106.5 | 113.5 | 113.3 | 112.7 | 111.0 | 112.9 | 118.5 | 114.3 | 114.9 |
| 109.5 | 110.6 | 110.6 | 116.1 | 112.3 | 111.8 | 100.1 | 110.8 | 111.1 | 106.4 | 103.0 | 106.5 | 115.2 | 116.4 | 112.4 |
| 119.5 | 110.4 | 111.5 | 109.7 | 110.1 | 115.0 | 114.5 | 117.4 | 118.1 | 118.6 | 117.7 | 117.9 | 120.7 | 110.8 | 114.7 |
| 119.2 | 111.1 | 105.5 | 97.2  | 108.3 | 110.8 | 121.9 | 130.6 | 104.5 | 117.3 | 118.1 | 128.3 | 125.2 | 114.4 | 114.1 |
| 114.1 | 110.5 | 111.6 | 107.9 | 104.3 | 108.7 | 107.0 | 112.1 | 111.8 | 116.9 | 117.4 | 117.8 | 121.6 | 114.6 | 120.6 |
| 111.8 | 110.5 | 110.0 | 115.0 | 101.9 | 113.3 | 113.1 | 114.7 | 117.5 | 120.5 | 116.4 | 115.1 | 117.0 | 115.0 | 114.5 |
| 115.4 | 113.7 | 115.3 | 111.5 | 102.6 | 114.7 | 111.6 | 113.8 | 117.3 | 118.0 | 118.0 | 115.0 | 120.1 | 118.4 | 120.3 |
| 107.3 | 107.3 | 105.8 | 105.3 | 103.4 | 112.3 | 111.5 | 110.7 | 116.8 | 122.2 | 115.3 | 114.5 | 112.4 | 111.6 | 109.4 |
| 111.9 | 110.0 | 108.6 | 123.8 | 100.5 | 112.8 | 115.3 | 117.8 | 118.1 | 121.4 | 115.8 | 115.6 | 117.3 | 114.5 | 113.1 |
| 122.9 | 118.2 | 116.2 | 119.4 | 99.9  | 116.3 | 116.7 | 121.2 | 128.5 | 128.9 | 125.6 | 129.7 | 131.6 | 124.4 | 124.7 |
| 127.3 | 122.6 | 119.3 | 121.9 | 97.7  | 115.0 | 114.3 | 120.3 | 130.4 | 131.4 | 127.3 | 134.5 | 137.5 | 129.8 | 128.8 |
| 117.3 | 104.7 | 109.1 | 113.3 | 101.4 | 114.6 | 117.7 | 119.4 | 122.7 | 117.7 | 116.3 | 121.5 | 120.7 | 107.2 | 114.0 |
| 100.1 | 103.3 | 103.8 | 110.0 | 112.6 | 126.6 | 131.8 | 128.9 | 122.0 | 124.8 | 123.7 | 106.9 | 104.6 | 107.4 | 108.8 |
| 99.9  | 102.0 | 99.6  | 115.6 | 100.3 | 115.9 | 105.3 | 103.4 | 104.4 | 109.9 | 116.4 | 108.0 | 110.0 | 110.5 | 106.5 |
| 99.4  | 97.5  | 98.3  | 121.7 | 103.1 | 115.7 | 107.2 | 99.0  | 99.3  | 107.6 | 107.0 | 94.0  | 110.0 | 106.3 | 107.2 |
| 90.5  | 101.6 | 103.4 | 102.8 | 88.6  | 116.4 | 94.8  | 100.3 | 100.4 | 90.3  | 132.2 | 116.6 | 97.5  | 109.9 | 106.7 |
| 99.6  | 99.7  | 101.5 | 114.0 | 103.6 | 106.0 | 102.3 | 98.7  | 105.0 | 109.8 | 110.8 | 121.8 | 109.0 | 103.8 | 106.3 |
| 117.1 | 123.9 | 96.9  | 111.8 | 103.7 | 126.0 | 116.8 | 130.6 | 131.6 | 149.8 | 136.6 | 139.1 | 130.3 | 135.5 | 103.9 |

**7c Indeks Pengeluaran Perindustrian Sektor Pembuatan mengikut Kumpulan -Bulanan**  
*Industrial Production Index of Manufacturing Sector by Group - Monthly*

| Bil.<br>No. | Wajaran<br>Weights<br>2015 | Kod<br>Codes | Keterangan Subsektor<br>Sub-sector Description                                                                                                                                                                                                  | 2019         |              |              |              |              |              |              |              |              |
|-------------|----------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|             |                            |              |                                                                                                                                                                                                                                                 | Jan.         | Feb.         | Mac          | Apr.         | Mei          | Jun          | Jul.         | Ogo.         | Sep.         |
|             | <b>68.25</b>               | <b>C</b>     | <b>PEMBUATAN<br/>MANUFACTURING</b>                                                                                                                                                                                                              | <b>120.6</b> | <b>108.3</b> | <b>118.7</b> | <b>116.4</b> | <b>119.9</b> | <b>121.4</b> | <b>123.8</b> | <b>122.0</b> | <b>122.1</b> |
| <b>1</b>    | <b>8.55</b>                |              | <b>Makanan, Minuman dan Tembakau<br/>Food, Beverages and Tobacco</b>                                                                                                                                                                            | <b>120.6</b> | <b>107.3</b> | <b>119.1</b> | <b>119.4</b> | <b>119.4</b> | <b>113.0</b> | <b>121.6</b> | <b>125.5</b> | <b>125.8</b> |
| 1.1         | 7.39                       | 10           | Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                 | 120.7        | 106.6        | 119.2        | 119.3        | 118.5        | 110.6        | 121.7        | 125.5        | 126.9        |
| 1.2         | 0.65                       | 11           | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                            | 121.8        | 107.2        | 116.1        | 124.1        | 132.4        | 136.7        | 128.6        | 134.1        | 126.6        |
| 1.3         | 0.52                       | 12           | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                             | 117.3        | 116.9        | 122.3        | 115.6        | 114.7        | 117.1        | 111.4        | 114.6        | 108.8        |
| <b>2</b>    | <b>1.33</b>                |              | <b>Produk Tekstil, Pakaian, Kulit dan Kasut<br/>Textiles, Wearing Apparel, Leather Products and Footwear</b>                                                                                                                                    | <b>123.3</b> | <b>118.5</b> | <b>123.9</b> | <b>124.1</b> | <b>133.2</b> | <b>127.4</b> | <b>120.0</b> | <b>120.0</b> | <b>125.3</b> |
| 2.1         | 0.58                       | 13           | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                             | 111.6        | 113.3        | 115.4        | 118.4        | 121.6        | 120.4        | 118.0        | 115.8        | 120.8        |
| 2.2         | 0.60                       | 14           | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                      | 132.3        | 123.0        | 129.3        | 127.1        | 143.0        | 134.3        | 121.6        | 124.0        | 131.2        |
| 2.3         | 0.15                       | 15           | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                             | 132.1        | 120.5        | 135.1        | 133.5        | 138.2        | 125.9        | 121.2        | 120.0        | 118.5        |
| <b>3</b>    | <b>4.56</b>                |              | <b>Produk Kayu, Perabot, Keluaran Kertas dan Percetakan<br/>Wood Products, Furniture, Paper Products and Printing</b>                                                                                                                           | <b>122.1</b> | <b>118.4</b> | <b>121.4</b> | <b>117.3</b> | <b>120.1</b> | <b>121.0</b> | <b>121.4</b> | <b>120.9</b> | <b>124.6</b> |
| 3.1         | 1.44                       | 16           | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 118.7        | 117.2        | 116.2        | 117.0        | 116.2        | 116.1        | 114.8        | 116.9        | 119.2        |
| 3.2         | 1.15                       | 17           | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                            | 119.5        | 117.0        | 122.1        | 123.8        | 121.5        | 116.3        | 118.0        | 111.5        | 123.3        |
| 3.3         | 0.93                       | 18           | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                            | 117.6        | 110.9        | 109.0        | 112.5        | 114.5        | 126.1        | 125.8        | 121.4        | 119.0        |
| 3.4         | 1.04                       | 31           | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 133.5        | 128.4        | 139.0        | 115.0        | 128.9        | 128.6        | 130.2        | 136.5        | 138.3        |
| <b>4</b>    | <b>20.60</b>               |              | <b>Produk Petroleum, Kimia, Getah dan Plastik<br/>Petroleum, Chemical, Rubber and Plastic Products</b>                                                                                                                                          | <b>116.5</b> | <b>111.6</b> | <b>116.3</b> | <b>110.3</b> | <b>117.2</b> | <b>116.6</b> | <b>116.5</b> | <b>114.2</b> | <b>115.3</b> |
| 4.1         | 9.36                       | 19           | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                        | 120.6        | 112.6        | 116.6        | 104.1        | 113.1        | 114.1        | 110.5        | 105.8        | 109.1        |
| 4.2         | 6.37                       | 20           | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                       | 112.6        | 110.7        | 117.0        | 115.6        | 120.4        | 121.0        | 120.9        | 120.3        | 119.9        |
| 4.3         | 0.38                       | 21           | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                       | 101.6        | 115.0        | 119.7        | 125.7        | 135.2        | 109.9        | 125.1        | 122.5        | 129.3        |
| 4.4         | 4.49                       | 22           | Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                        | 114.8        | 110.4        | 114.3        | 114.3        | 119.6        | 116.2        | 122.3        | 122.5        | 120.8        |
| <b>5</b>    | <b>9.11</b>                |              | <b>Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka<br/>Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products</b>                                                                                         | <b>120.0</b> | <b>106.6</b> | <b>117.3</b> | <b>117.7</b> | <b>119.1</b> | <b>123.1</b> | <b>125.8</b> | <b>121.2</b> | <b>119.5</b> |
| 5.1         | 2.97                       | 23           | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                           | 117.9        | 107.6        | 119.6        | 116.6        | 118.4        | 123.3        | 122.9        | 124.0        | 119.8        |
| 5.2         | 2.35                       | 24           | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                      | 108.7        | 107.2        | 115.7        | 115.9        | 114.6        | 121.9        | 128.0        | 119.6        | 118.3        |
| 5.3         | 3.79                       | 25           | Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                            | 128.5        | 105.5        | 116.5        | 119.6        | 122.3        | 123.8        | 126.7        | 120.0        | 120.2        |
| <b>6</b>    | <b>18.23</b>               |              | <b>Produk Peralatan Elektrik dan Elektronik<br/>Electrical and Electronics Products</b>                                                                                                                                                         | <b>124.1</b> | <b>103.0</b> | <b>119.5</b> | <b>121.5</b> | <b>125.8</b> | <b>132.9</b> | <b>135.3</b> | <b>129.5</b> | <b>130.7</b> |
| 6.1         | 13.89                      | 26           | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                           | 126.2        | 100.6        | 118.2        | 119.1        | 125.3        | 135.5        | 138.5        | 131.1        | 134.7        |
| 6.2         | 2.20                       | 27           | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                    | 121.4        | 106.4        | 118.9        | 122.5        | 121.4        | 124.6        | 119.4        | 118.3        | 125.0        |
| 6.3         | 2.14                       | 28           | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                | 113.1        | 115.0        | 128.3        | 135.8        | 133.1        | 125.1        | 130.8        | 130.1        | 110.8        |
| <b>7</b>    | <b>5.87</b>                |              | <b>Kelengkapan Pengangkutan dan Pembuatan Lain<br/>Transport Equipment and Other Manufactures</b>                                                                                                                                               | <b>122.9</b> | <b>107.4</b> | <b>123.0</b> | <b>112.9</b> | <b>110.5</b> | <b>110.3</b> | <b>116.2</b> | <b>123.3</b> | <b>114.8</b> |
| 7.1         | 3.17                       | 29           | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                        | 129.6        | 110.6        | 123.4        | 117.4        | 108.2        | 107.2        | 115.7        | 115.5        | 101.9        |
| 7.2         | 1.19                       | 30           | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                      | 108.5        | 96.3         | 121.0        | 98.5         | 105.0        | 106.3        | 94.1         | 135.6        | 126.2        |
| 7.3         | 0.74                       | 32           | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                    | 119.8        | 108.3        | 111.6        | 107.5        | 104.3        | 107.9        | 115.8        | 117.3        | 122.2        |
| 7.4         | 0.76                       | 33           | Mbaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                      | 120.2        | 110.7        | 135.2        | 122.3        | 134.7        | 131.9        | 153.3        | 142.0        | 143.3        |

| 2020  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Okt.  | Nov.  | Dis.  | Jan.  | Feb.  | Mac   | Apr.  | Mei   | Jun   | Jul.  | Ogo.  | Sep.  | Okt.  | Nov.  | Dis.  |
| 124.5 | 121.3 | 122.7 | 123.1 | 115.0 | 113.8 | 73.1  | 92.8  | 127.1 | 127.4 | 124.7 | 127.3 | 127.4 | 123.7 | 127.8 |
| 124.3 | 122.4 | 124.5 | 113.9 | 112.0 | 107.4 | 108.7 | 116.4 | 124.9 | 129.3 | 131.5 | 131.9 | 120.1 | 111.7 | 114.6 |
| 125.3 | 122.6 | 124.3 | 113.1 | 111.3 | 107.5 | 119.8 | 126.4 | 130.1 | 131.7 | 133.6 | 134.0 | 120.9 | 111.2 | 112.8 |
| 128.9 | 134.0 | 135.6 | 123.1 | 112.6 | 106.8 | 66.7  | 78.9  | 97.5  | 110.9 | 120.1 | 119.5 | 119.6 | 118.2 | 130.6 |
| 104.5 | 106.2 | 113.2 | 115.3 | 122.2 | 107.2 | 2.6   | 19.8  | 84.9  | 117.8 | 117.1 | 117.2 | 109.8 | 112.2 | 119.3 |
| 130.8 | 141.2 | 131.2 | 127.2 | 126.4 | 122.5 | 32.5  | 72.9  | 115.1 | 104.5 | 106.8 | 120.2 | 127.4 | 135.6 | 132.9 |
| 116.6 | 128.6 | 109.2 | 114.9 | 120.4 | 112.6 | 41.8  | 72.6  | 101.1 | 97.7  | 102.8 | 112.9 | 111.9 | 123.8 | 111.1 |
| 149.1 | 156.7 | 153.4 | 137.3 | 131.8 | 128.4 | 25.0  | 70.3  | 131.0 | 114.5 | 115.2 | 132.4 | 148.7 | 151.7 | 154.3 |
| 111.7 | 127.2 | 127.1 | 134.1 | 127.8 | 136.5 | 26.7  | 84.7  | 105.1 | 90.3  | 88.3  | 98.7  | 101.3 | 116.0 | 131.1 |
| 122.6 | 124.7 | 130.3 | 125.7 | 125.9 | 114.1 | 37.1  | 73.0  | 129.9 | 122.4 | 117.9 | 127.4 | 124.4 | 127.5 | 134.6 |
| 121.3 | 121.6 | 125.6 | 121.7 | 125.1 | 113.3 | 24.3  | 56.8  | 122.4 | 102.8 | 102.3 | 116.0 | 115.8 | 121.5 | 126.5 |
| 113.1 | 124.9 | 128.7 | 119.7 | 122.9 | 111.9 | 64.9  | 95.7  | 128.8 | 125.8 | 114.2 | 129.6 | 119.5 | 129.4 | 135.5 |
| 117.3 | 120.3 | 135.8 | 124.7 | 117.7 | 101.7 | 51.6  | 80.3  | 118.1 | 131.7 | 123.8 | 122.3 | 120.2 | 123.7 | 141.7 |
| 139.6 | 132.7 | 133.6 | 139.0 | 137.3 | 128.6 | 11.1  | 63.7  | 151.9 | 137.3 | 138.4 | 145.0 | 145.5 | 137.0 | 138.6 |
| 120.1 | 117.3 | 119.1 | 120.8 | 118.8 | 120.5 | 86.7  | 91.2  | 118.4 | 118.3 | 116.2 | 119.0 | 122.4 | 119.6 | 128.3 |
| 117.6 | 117.8 | 116.4 | 125.1 | 119.9 | 117.5 | 66.3  | 69.7  | 100.3 | 98.4  | 96.9  | 98.7  | 104.5 | 104.9 | 112.0 |
| 121.2 | 113.7 | 117.0 | 114.9 | 116.1 | 115.5 | 87.1  | 91.6  | 111.7 | 110.9 | 110.1 | 113.1 | 112.2 | 108.2 | 119.0 |
| 127.2 | 119.4 | 117.8 | 105.7 | 121.3 | 123.9 | 131.3 | 139.3 | 149.6 | 151.6 | 150.7 | 161.1 | 150.0 | 135.9 | 138.4 |
| 123.0 | 121.1 | 127.9 | 121.3 | 120.3 | 133.4 | 125.1 | 131.3 | 162.9 | 167.5 | 162.3 | 166.3 | 171.9 | 165.2 | 174.5 |
| 120.6 | 119.3 | 119.7 | 124.6 | 113.2 | 105.8 | 43.9  | 65.3  | 105.6 | 113.4 | 113.5 | 114.9 | 117.9 | 116.4 | 118.1 |
| 124.0 | 123.4 | 126.3 | 122.9 | 114.0 | 106.3 | 32.7  | 58.3  | 98.6  | 111.0 | 113.7 | 111.8 | 120.9 | 120.8 | 125.9 |
| 117.4 | 117.1 | 115.1 | 112.7 | 116.2 | 105.8 | 56.8  | 72.1  | 128.3 | 132.0 | 123.4 | 123.2 | 122.4 | 120.5 | 119.3 |
| 119.8 | 117.4 | 117.5 | 133.3 | 110.8 | 105.4 | 44.6  | 66.6  | 97.0  | 103.9 | 107.2 | 112.3 | 112.7 | 110.5 | 111.3 |
| 134.7 | 125.7 | 128.5 | 128.0 | 110.2 | 113.6 | 80.0  | 111.7 | 150.5 | 148.5 | 138.7 | 143.5 | 144.9 | 136.1 | 138.3 |
| 140.1 | 130.0 | 132.6 | 130.4 | 108.5 | 113.6 | 75.9  | 108.4 | 152.1 | 151.9 | 141.8 | 149.3 | 151.7 | 142.5 | 144.3 |
| 127.2 | 110.6 | 117.7 | 123.2 | 109.6 | 110.0 | 84.6  | 111.8 | 141.2 | 132.6 | 127.1 | 135.0 | 134.1 | 115.3 | 122.4 |
| 107.8 | 113.8 | 113.4 | 117.5 | 121.6 | 117.4 | 101.6 | 132.5 | 149.7 | 142.9 | 130.3 | 115.2 | 112.0 | 116.5 | 116.4 |
| 114.8 | 115.4 | 111.5 | 124.6 | 112.6 | 110.5 | 34.6  | 68.0  | 122.1 | 121.8 | 127.6 | 119.9 | 118.7 | 122.9 | 120.9 |
| 115.2 | 110.3 | 112.2 | 129.1 | 116.3 | 112.2 | 35.2  | 65.5  | 128.7 | 129.3 | 129.0 | 115.6 | 124.4 | 126.1 | 132.1 |
| 100.9 | 114.2 | 109.9 | 112.1 | 100.1 | 103.4 | 29.1  | 63.6  | 103.2 | 89.6  | 117.4 | 112.5 | 93.3  | 112.0 | 106.5 |
| 116.2 | 114.9 | 114.3 | 123.8 | 114.3 | 103.0 | 20.7  | 56.0  | 113.0 | 120.8 | 124.9 | 130.8 | 122.0 | 115.7 | 111.6 |
| 133.0 | 139.2 | 108.7 | 126.0 | 115.2 | 122.1 | 54.5  | 96.8  | 133.0 | 141.9 | 140.6 | 138.7 | 131.5 | 133.8 | 105.8 |

**7c Indeks Pengeluaran Perindustrian Sektor Pembuatan mengikut Kumpulan -Bulanan**  
*Industrial Production Index of Manufacturing Sector by Group - Monthly*

| Bil.<br>No. | Wajaran<br>Weights<br>2015 | Kod<br>Codes | Keterangan Subsektor<br>Sub-sector Description                                                                                                                                                                                                  | 2021         |              |              |              |              |              |              |              |              |
|-------------|----------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|             |                            |              |                                                                                                                                                                                                                                                 | Jan.         | Feb.         | Mac          | Apr.         | Mei          | Jun          | Jul.         | Ogo.         | Sep.         |
|             | <b>68.25</b>               | <b>C</b>     | <b>PEMBUATAN<br/>MANUFACTURING</b>                                                                                                                                                                                                              | <b>127.5</b> | <b>120.1</b> | <b>128.3</b> | <b>122.8</b> | <b>120.4</b> | <b>126.9</b> | <b>119.1</b> | <b>125.4</b> | <b>132.3</b> |
| <b>1</b>    | <b>8.55</b>                |              | <b>Makanan, Minuman dan Tembakau<br/>Food, Beverages and Tobacco</b>                                                                                                                                                                            | <b>114.0</b> | <b>103.7</b> | <b>115.2</b> | <b>122.5</b> | <b>117.2</b> | <b>116.9</b> | <b>115.2</b> | <b>122.8</b> | <b>134.6</b> |
| 1.1         | 7.39                       | 10           | Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                 | 112.9        | 101.5        | 114.7        | 122.4        | 118.4        | 127.9        | 125.5        | 131.5        | 140.6        |
| 1.2         | 0.65                       | 11           | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                            | 120.1        | 111.9        | 116.7        | 136.1        | 117.9        | 83.0         | 88.0         | 120.0        | 127.1        |
| 1.3         | 0.52                       | 12           | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                             | 122.1        | 125.5        | 120.2        | 106.1        | 99.4         | 3.1          | 2.4          | 2.4          | 59.2         |
| <b>2</b>    | <b>1.33</b>                |              | <b>Produk Tekstil, Pakaian, Kulit dan Kasut<br/>Textiles, Wearing Apparel, Leather Products and Footwear</b>                                                                                                                                    | <b>126.1</b> | <b>125.1</b> | <b>133.6</b> | <b>107.4</b> | <b>102.0</b> | <b>98.4</b>  | <b>92.5</b>  | <b>102.8</b> | <b>119.4</b> |
| 2.1         | 0.58                       | 13           | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                             | 115.2        | 120.0        | 129.1        | 102.1        | 102.5        | 111.9        | 100.2        | 104.0        | 124.0        |
| 2.2         | 0.60                       | 14           | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                      | 133.4        | 128.4        | 134.2        | 102.3        | 90.7         | 90.3         | 91.5         | 108.3        | 123.0        |
| 2.3         | 0.15                       | 15           | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                             | 139.2        | 131.6        | 148.2        | 148.9        | 146.2        | 79.0         | 67.0         | 76.2         | 86.8         |
| <b>3</b>    | <b>4.56</b>                |              | <b>Produk Kayu, Perabot, Keluaran Kertas dan Percetakan<br/>Wood Products, Furniture, Paper Products and Printing</b>                                                                                                                           | <b>128.8</b> | <b>127.0</b> | <b>126.8</b> | <b>116.0</b> | <b>111.7</b> | <b>106.3</b> | <b>93.3</b>  | <b>104.9</b> | <b>120.8</b> |
| 3.1         | 1.44                       | 16           | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 118.3        | 120.1        | 119.2        | 109.1        | 107.7        | 100.3        | 79.2         | 100.0        | 113.8        |
| 3.2         | 1.15                       | 17           | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                            | 130.1        | 130.7        | 131.7        | 122.5        | 114.2        | 129.0        | 122.8        | 129.8        | 147.9        |
| 3.3         | 0.93                       | 18           | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                            | 125.9        | 119.8        | 112.8        | 116.5        | 110.8        | 94.2         | 98.8         | 110.6        | 118.7        |
| 3.4         | 1.04                       | 31           | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 144.5        | 139.1        | 144.4        | 117.9        | 115.3        | 99.9         | 75.5         | 79.1         | 102.1        |
| <b>4</b>    | <b>20.60</b>               |              | <b>Produk Petroleum, Kimia, Getah dan Plastik<br/>Petroleum, Chemical, Rubber and Plastic Products</b>                                                                                                                                          | <b>126.2</b> | <b>129.4</b> | <b>137.5</b> | <b>119.3</b> | <b>122.9</b> | <b>140.8</b> | <b>135.2</b> | <b>132.5</b> | <b>126.2</b> |
| 4.1         | 9.36                       | 19           | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                        | 109.7        | 115.8        | 115.7        | 93.3         | 107.0        | 117.6        | 122.6        | 116.3        | 107.9        |
| 4.2         | 6.37                       | 20           | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                       | 115.2        | 120.3        | 126.5        | 106.2        | 103.6        | 128.7        | 115.1        | 122.3        | 121.1        |
| 4.3         | 0.38                       | 21           | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                       | 125.7        | 147.3        | 153.5        | 149.9        | 149.4        | 166.1        | 165.1        | 170.3        | 184.8        |
| 4.4         | 4.49                       | 22           | Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                        | 176.4        | 169.3        | 197.3        | 189.5        | 181.5        | 204.3        | 187.7        | 177.5        | 166.8        |
| <b>5</b>    | <b>9.11</b>                |              | <b>Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka<br/>Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products</b>                                                                                         | <b>123.4</b> | <b>110.2</b> | <b>114.2</b> | <b>105.8</b> | <b>97.5</b>  | <b>83.2</b>  | <b>82.1</b>  | <b>98.8</b>  | <b>111.7</b> |
| 5.1         | 2.97                       | 23           | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                           | 123.3        | 113.1        | 115.6        | 102.9        | 86.3         | 70.8         | 69.8         | 93.7         | 100.5        |
| 5.2         | 2.35                       | 24           | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                      | 118.1        | 114.6        | 114.2        | 113.7        | 104.8        | 93.6         | 91.5         | 111.8        | 124.4        |
| 5.3         | 3.79                       | 25           | Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                            | 126.7        | 105.2        | 113.2        | 103.1        | 101.8        | 86.3         | 86.0         | 94.7         | 112.4        |
| <b>6</b>    | <b>18.23</b>               |              | <b>Produk Peralatan Elektrik dan Elektronik<br/>Electrical and Electronics Products</b>                                                                                                                                                         | <b>138.2</b> | <b>121.5</b> | <b>129.3</b> | <b>136.1</b> | <b>135.9</b> | <b>163.2</b> | <b>145.9</b> | <b>152.2</b> | <b>161.2</b> |
| 6.1         | 13.89                      | 26           | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                           | 142.2        | 121.8        | 130.6        | 134.3        | 134.9        | 166.2        | 149.4        | 155.9        | 168.0        |
| 6.2         | 2.20                       | 27           | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                    | 130.9        | 116.0        | 120.1        | 135.2        | 130.5        | 150.2        | 131.4        | 133.1        | 147.5        |
| 6.3         | 2.14                       | 28           | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                | 119.7        | 124.5        | 130.2        | 148.8        | 147.4        | 157.5        | 138.0        | 147.3        | 131.2        |
| <b>7</b>    | <b>5.87</b>                |              | <b>Kelengkapan Pengangkutan dan Pembuatan Lain<br/>Transport Equipment and Other Manufactures</b>                                                                                                                                               | <b>124.4</b> | <b>116.3</b> | <b>133.7</b> | <b>129.9</b> | <b>114.8</b> | <b>69.9</b>  | <b>68.5</b>  | <b>83.8</b>  | <b>104.7</b> |
| 7.1         | 3.17                       | 29           | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                        | 131.0        | 124.8        | 149.8        | 152.0        | 128.6        | 55.2         | 57.0         | 69.6         | 95.5         |
| 7.2         | 1.19                       | 30           | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                      | 108.8        | 99.3         | 105.8        | 90.2         | 82.0         | 80.2         | 68.7         | 105.7        | 114.1        |
| 7.3         | 0.74                       | 32           | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                    | 121.5        | 109.5        | 114.3        | 110.4        | 109.5        | 78.9         | 76.3         | 82.6         | 119.2        |
| 7.4         | 0.76                       | 33           | Membaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                    | 124.0        | 113.8        | 129.2        | 119.0        | 114.2        | 106.3        | 108.4        | 110.1        | 114.1        |

| 2022  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Okt.  | Nov.  | Dis.  | Jan.  | Feb.  | Mac   | Apr.  | Mei   | Jun   | Jul.  | Ogo.  | Sep.  | Okt.  | Nov.  | Dis.  |
| 137.6 | 137.7 | 138.5 | 136.1 | 126.4 | 137.2 | 130.4 | 128.8 | 145.2 | 136.9 | 144.5 | 146.1 | 143.4 | 144.4 | 142.6 |
| 131.3 | 126.2 | 126.3 | 121.6 | 110.5 | 119.9 | 127.7 | 122.7 | 126.1 | 128.1 | 136.8 | 141.3 | 133.5 | 132.2 | 130.6 |
| 131.7 | 126.1 | 124.9 | 120.8 | 107.8 | 119.3 | 126.3 | 123.4 | 128.0 | 132.0 | 141.5 | 145.7 | 136.5 | 132.4 | 130.8 |
| 137.1 | 132.9 | 142.4 | 129.4 | 121.0 | 125.0 | 150.6 | 129.6 | 132.7 | 132.8 | 137.8 | 142.1 | 138.7 | 140.1 | 143.4 |
| 118.4 | 117.9 | 126.9 | 123.7 | 137.1 | 122.2 | 118.6 | 104.0 | 90.0  | 67.8  | 69.5  | 77.0  | 85.1  | 119.9 | 111.1 |
| 131.4 | 143.8 | 138.5 | 132.4 | 131.1 | 140.7 | 112.5 | 107.1 | 110.6 | 109.1 | 116.1 | 129.0 | 129.1 | 144.9 | 137.9 |
| 120.5 | 137.5 | 119.8 | 124.8 | 127.7 | 135.9 | 106.3 | 106.1 | 116.0 | 110.9 | 114.0 | 130.8 | 122.0 | 132.6 | 118.8 |
| 148.4 | 155.4 | 157.4 | 137.3 | 132.9 | 143.0 | 109.4 | 95.5  | 96.5  | 100.4 | 111.0 | 123.5 | 136.4 | 155.8 | 153.0 |
| 104.6 | 121.1 | 134.3 | 141.8 | 137.1 | 150.5 | 149.5 | 158.2 | 147.0 | 137.1 | 145.4 | 144.4 | 126.9 | 148.2 | 151.0 |
| 126.1 | 139.5 | 143.4 | 139.9 | 133.1 | 136.2 | 127.7 | 121.5 | 124.6 | 119.3 | 122.3 | 131.3 | 126.5 | 134.6 | 137.2 |
| 121.8 | 136.6 | 137.2 | 131.6 | 128.2 | 131.1 | 117.7 | 117.9 | 118.1 | 112.8 | 113.1 | 122.1 | 121.9 | 120.7 | 119.6 |
| 139.9 | 154.6 | 152.4 | 149.2 | 138.8 | 138.1 | 132.3 | 122.6 | 142.6 | 139.9 | 145.6 | 162.6 | 143.4 | 155.2 | 156.0 |
| 119.9 | 125.8 | 145.9 | 127.6 | 120.8 | 116.6 | 126.4 | 120.3 | 112.5 | 108.9 | 119.8 | 127.3 | 126.4 | 136.8 | 151.4 |
| 122.4 | 139.0 | 139.8 | 151.9 | 144.6 | 158.5 | 137.6 | 126.4 | 124.5 | 114.8 | 111.5 | 112.8 | 114.2 | 128.9 | 128.1 |
| 130.1 | 129.8 | 131.0 | 126.3 | 126.5 | 137.7 | 117.8 | 120.7 | 141.3 | 136.6 | 139.6 | 134.4 | 134.2 | 130.3 | 129.9 |
| 114.9 | 121.3 | 112.8 | 111.8 | 114.1 | 129.9 | 92.4  | 109.1 | 130.5 | 129.6 | 131.2 | 124.5 | 127.1 | 123.2 | 116.7 |
| 124.9 | 118.9 | 131.3 | 123.4 | 125.8 | 127.9 | 116.8 | 112.1 | 131.6 | 119.6 | 128.0 | 126.2 | 125.1 | 124.7 | 131.8 |
| 177.7 | 162.0 | 167.7 | 150.8 | 155.2 | 162.7 | 159.9 | 154.9 | 173.4 | 180.8 | 184.9 | 191.1 | 181.9 | 165.0 | 175.9 |
| 164.9 | 160.4 | 165.5 | 158.5 | 150.6 | 165.8 | 168.7 | 154.3 | 174.9 | 171.5 | 170.0 | 161.8 | 157.7 | 150.2 | 150.9 |
| 122.0 | 125.2 | 124.4 | 131.1 | 116.1 | 120.6 | 111.2 | 102.7 | 104.0 | 101.7 | 112.2 | 118.8 | 125.7 | 126.6 | 127.1 |
| 119.3 | 125.2 | 129.5 | 130.0 | 119.9 | 123.2 | 110.7 | 91.6  | 93.6  | 94.0  | 109.3 | 110.7 | 123.5 | 125.4 | 132.3 |
| 126.8 | 128.0 | 128.3 | 125.7 | 120.6 | 125.4 | 121.4 | 113.1 | 111.3 | 111.6 | 124.5 | 126.1 | 129.1 | 129.8 | 124.4 |
| 121.2 | 123.5 | 118.1 | 135.2 | 110.2 | 115.6 | 105.1 | 104.8 | 107.7 | 101.6 | 107.0 | 120.7 | 125.4 | 125.5 | 124.7 |
| 164.6 | 160.4 | 163.5 | 158.1 | 137.1 | 153.3 | 155.4 | 157.1 | 190.8 | 171.1 | 182.0 | 186.3 | 179.0 | 179.8 | 175.3 |
| 172.0 | 168.0 | 171.7 | 165.0 | 138.6 | 157.4 | 156.5 | 160.3 | 198.4 | 176.9 | 189.5 | 196.1 | 189.7 | 191.7 | 184.7 |
| 150.4 | 134.2 | 143.7 | 145.1 | 134.7 | 147.0 | 149.8 | 142.2 | 164.8 | 145.6 | 147.2 | 161.5 | 157.2 | 139.3 | 146.4 |
| 131.6 | 138.3 | 130.5 | 127.0 | 129.9 | 133.7 | 153.6 | 151.2 | 168.4 | 159.8 | 168.9 | 148.1 | 132.1 | 144.2 | 143.9 |
| 123.9 | 128.5 | 122.5 | 129.5 | 125.6 | 135.9 | 137.4 | 129.1 | 132.8 | 118.9 | 130.1 | 127.4 | 123.4 | 136.8 | 133.0 |
| 130.7 | 130.5 | 129.9 | 137.6 | 137.1 | 149.0 | 159.7 | 147.1 | 154.1 | 131.1 | 144.1 | 129.5 | 123.3 | 142.8 | 145.2 |
| 95.5  | 115.6 | 109.2 | 110.7 | 103.0 | 108.4 | 96.2  | 89.9  | 92.3  | 83.8  | 112.6 | 122.8 | 107.1 | 119.0 | 112.1 |
| 128.0 | 123.2 | 116.4 | 123.5 | 117.1 | 119.1 | 112.9 | 121.2 | 111.3 | 112.0 | 100.2 | 122.9 | 128.5 | 129.8 | 119.6 |
| 135.8 | 145.2 | 118.6 | 131.6 | 121.5 | 141.2 | 132.8 | 123.2 | 128.3 | 130.2 | 128.4 | 129.7 | 143.8 | 146.7 | 127.7 |

**7c Indeks Pengeluaran Perindustrian Sektor Pembuatan mengikut Kumpulan -Bulanan**  
*Industrial Production Index of Manufacturing Sector by Group - Monthly*

| Bil.<br>No. | Wajaran<br>Weights<br>2015 | Kod<br>Codes | Keterangan Subsektor<br>Sub-sector Description                                                                                                                                                                                                  | 2023         |              |              |              |              |              |              |              |              |
|-------------|----------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|             |                            |              |                                                                                                                                                                                                                                                 | Jan.         | Feb.         | Mac          | Apr.         | Mei          | Jun          | Jul.         | Ogo.         | Sep.         |
|             | <b>68.25</b>               | <b>C</b>     | <b>PEMBUATAN<br/>MANUFACTURING</b>                                                                                                                                                                                                              | <b>137.9</b> | <b>132.4</b> | <b>142.8</b> | <b>126.5</b> | <b>135.4</b> | <b>142.8</b> | <b>136.6</b> | <b>143.6</b> | <b>146.7</b> |
| <b>1</b>    | <b>8.55</b>                |              | <b>Makanan, Minuman dan Tembakau<br/>Food, Beverages and Tobacco</b>                                                                                                                                                                            | <b>127.0</b> | <b>122.0</b> | <b>129.0</b> | <b>121.5</b> | <b>137.0</b> | <b>129.7</b> | <b>133.1</b> | <b>142.1</b> | <b>148.4</b> |
| 1.1         | 7.39                       | 10           | Pembuatan produk makanan<br><i>Manufacture of food products</i>                                                                                                                                                                                 | 125.5        | 121.0        | 127.9        | 119.4        | 136.0        | 130.8        | 136.6        | 146.9        | 153.2        |
| 1.2         | 0.65                       | 11           | Pembuatan minuman<br><i>Manufacture of beverages</i>                                                                                                                                                                                            | 127.2        | 118.2        | 124.2        | 142.4        | 143.9        | 134.9        | 135.3        | 138.2        | 143.0        |
| 1.3         | 0.52                       | 12           | Pembuatan produk tembakau<br><i>Manufacture of tobacco products</i>                                                                                                                                                                             | 147.9        | 142.4        | 151.9        | 126.2        | 141.6        | 107.9        | 79.4         | 77.9         | 86.6         |
| <b>2</b>    | <b>1.33</b>                |              | <b>Produk Tekstil, Pakaian, Kulit dan Kasut<br/>Textiles, Wearing Apparel, Leather Products and Footwear</b>                                                                                                                                    | <b>130.0</b> | <b>133.6</b> | <b>143.4</b> | <b>115.3</b> | <b>113.6</b> | <b>114.1</b> | <b>111.0</b> | <b>116.1</b> | <b>128.5</b> |
| 2.1         | 0.58                       | 13           | Pembuatan tekstil<br><i>Manufacture of textiles</i>                                                                                                                                                                                             | 119.0        | 123.5        | 132.5        | 102.9        | 105.0        | 109.1        | 103.9        | 108.2        | 121.9        |
| 2.2         | 0.60                       | 14           | Pembuatan pakaian<br><i>Manufacture of wearing apparel</i>                                                                                                                                                                                      | 135.2        | 140.2        | 148.8        | 115.3        | 105.3        | 109.1        | 108.6        | 115.3        | 129.3        |
| 2.3         | 0.15                       | 15           | Pembuatan produk kulit dan barangan berkaitan<br><i>Manufacture of leather and related products</i>                                                                                                                                             | 152.1        | 145.8        | 163.9        | 163.1        | 181.0        | 153.6        | 148.0        | 149.9        | 150.9        |
| <b>3</b>    | <b>4.56</b>                |              | <b>Produk Kayu, Perabot, Keluaran Kertas dan Percetakan<br/>Wood Products, Furniture, Paper Products and Printing</b>                                                                                                                           | <b>131.3</b> | <b>132.6</b> | <b>129.6</b> | <b>120.2</b> | <b>125.4</b> | <b>124.4</b> | <b>119.5</b> | <b>124.6</b> | <b>131.9</b> |
| 3.1         | 1.44                       | 16           | Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan<br><i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i> | 112.5        | 125.0        | 119.5        | 106.0        | 116.2        | 113.6        | 109.0        | 111.8        | 117.5        |
| 3.2         | 1.15                       | 17           | Pembuatan kertas dan produk kertas<br><i>Manufacture of paper and paper products</i>                                                                                                                                                            | 152.5        | 146.6        | 142.8        | 134.1        | 131.1        | 145.5        | 142.3        | 150.4        | 168.2        |
| 3.3         | 0.93                       | 18           | Percetakan dan penerbitan semula media rakaman<br><i>Printing and reproduction of recorded media</i>                                                                                                                                            | 130.9        | 126.7        | 120.9        | 130.3        | 131.1        | 121.3        | 117.8        | 131.7        | 138.6        |
| 3.4         | 1.04                       | 31           | Pembuatan perabot<br><i>Manufacture of furniture</i>                                                                                                                                                                                            | 134.1        | 133.0        | 136.5        | 115.5        | 126.7        | 118.6        | 110.3        | 107.6        | 105.9        |
| <b>4</b>    | <b>20.60</b>               |              | <b>Produk Petroleum, Kimia, Getah dan Plastik<br/>Petroleum, Chemical, Rubber and Plastic Products</b>                                                                                                                                          | <b>128.9</b> | <b>128.8</b> | <b>141.2</b> | <b>113.9</b> | <b>124.4</b> | <b>134.7</b> | <b>131.1</b> | <b>136.3</b> | <b>131.4</b> |
| 4.1         | 9.36                       | 19           | Pembuatan kok dan produk petroleum bertapis<br><i>Manufacture of coke and refined petroleum products</i>                                                                                                                                        | 124.2        | 121.5        | 138.2        | 93.8         | 115.7        | 116.4        | 116.5        | 121.3        | 114.9        |
| 4.2         | 6.37                       | 20           | Pembuatan kimia dan produk kimia<br><i>Manufacture of chemicals and chemical products</i>                                                                                                                                                       | 124.6        | 129.2        | 133.7        | 118.2        | 118.9        | 140.8        | 128.4        | 137.9        | 133.6        |
| 4.3         | 0.38                       | 21           | Pembuatan produk farmaseutikal asas, kimia perubatan dan botani<br><i>Manufacture of basic pharmaceuticals, medicinal chemical and botanical products</i>                                                                                       | 155.9        | 169.3        | 170.8        | 163.9        | 160.1        | 165.3        | 174.0        | 176.2        | 178.3        |
| 4.4         | 4.49                       | 22           | Pembuatan produk getah dan plastik<br><i>Manufacture of rubber and plastics products</i>                                                                                                                                                        | 142.4        | 139.8        | 155.5        | 145.3        | 147.1        | 161.7        | 161.6        | 162.2        | 158.9        |
| <b>5</b>    | <b>9.11</b>                |              | <b>Produk Mineral Bukan Logam, Logam Asas dan Produk Logam yang Direka<br/>Non-metallic Mineral Products, Basic Metal and Fabricated Metal Products</b>                                                                                         | <b>130.3</b> | <b>123.6</b> | <b>126.6</b> | <b>114.8</b> | <b>111.0</b> | <b>109.4</b> | <b>106.2</b> | <b>116.8</b> | <b>128.3</b> |
| 5.1         | 2.97                       | 23           | Pembuatan produk galian bukan logam lain<br><i>Manufacture of other non-metallic mineral products</i>                                                                                                                                           | 131.5        | 126.1        | 128.7        | 112.7        | 95.0         | 96.9         | 96.8         | 113.0        | 119.5        |
| 5.2         | 2.35                       | 24           | Pembuatan logam asas<br><i>Manufacture of basic metals</i>                                                                                                                                                                                      | 119.8        | 126.8        | 131.6        | 125.1        | 121.2        | 116.4        | 114.2        | 125.0        | 133.2        |
| 5.3         | 3.79                       | 25           | Pembuatan produk logam yang direka, kecuali mesin dan kelengkapan<br><i>Manufacture of fabricated metal products, except machinery and equipment</i>                                                                                            | 135.8        | 119.6        | 121.9        | 110.2        | 117.3        | 114.9        | 108.6        | 114.7        | 132.2        |
| <b>6</b>    | <b>18.23</b>               |              | <b>Produk Peralatan Elektrik dan Elektronik<br/>Electrical and Electronics Products</b>                                                                                                                                                         | <b>158.8</b> | <b>144.6</b> | <b>161.8</b> | <b>151.7</b> | <b>160.0</b> | <b>184.0</b> | <b>168.3</b> | <b>175.6</b> | <b>182.5</b> |
| 6.1         | 13.89                      | 26           | Pembuatan komputer, produk elektronik dan optikal<br><i>Manufacture of computer, electronics and optical products</i>                                                                                                                           | 166.3        | 147.6        | 166.9        | 153.7        | 161.1        | 190.4        | 174.1        | 182.3        | 192.4        |
| 6.2         | 2.20                       | 27           | Pembuatan kelengkapan elektrik<br><i>Manufacture of electrical equipment</i>                                                                                                                                                                    | 141.1        | 137.0        | 147.3        | 142.1        | 153.0        | 164.2        | 146.6        | 147.8        | 161.0        |
| 6.3         | 2.14                       | 28           | Pembuatan jentera dan peralatan t.t.t.l.<br><i>Manufacture of machinery and equipment n.e.c.</i>                                                                                                                                                | 128.6        | 133.1        | 143.5        | 148.9        | 160.6        | 163.3        | 153.5        | 160.8        | 140.8        |
| <b>7</b>    | <b>5.87</b>                |              | <b>Kelengkapan Pengangkutan dan Pembuatan Lain<br/>Transport Equipment and Other Manufactures</b>                                                                                                                                               | <b>139.9</b> | <b>136.0</b> | <b>144.6</b> | <b>125.0</b> | <b>145.4</b> | <b>135.1</b> | <b>129.1</b> | <b>134.6</b> | <b>130.7</b> |
| 7.1         | 3.17                       | 29           | Pembuatan kenderaan bermotor, treler dan semi treler<br><i>Manufacture of motor vehicles, trailers and semi-trailers</i>                                                                                                                        | 154.3        | 150.2        | 163.6        | 134.9        | 170.8        | 153.8        | 146.6        | 149.6        | 132.9        |
| 7.2         | 1.19                       | 30           | Pembuatan kelengkapan pengangkutan lain<br><i>Manufacture of other transport equipment</i>                                                                                                                                                      | 111.1        | 108.6        | 110.4        | 96.9         | 96.3         | 98.6         | 87.1         | 115.1        | 125.2        |
| 7.3         | 0.74                       | 32           | Pembuatan lain<br><i>Other manufacturing</i>                                                                                                                                                                                                    | 124.7        | 122.9        | 120.1        | 113.5        | 131.6        | 112.3        | 113.2        | 100.7        | 123.8        |
| 7.4         | 0.76                       | 33           | Mbaiki dan pemasangan jentera dan kelengkapan<br><i>Repair and installation of machinery and equipment</i>                                                                                                                                      | 139.4        | 133.0        | 142.8        | 139.1        | 130.1        | 135.9        | 137.4        | 135.8        | 136.8        |

# Nota Teknikal

## *Technical Notes*



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## OBJEKTIF

Objektif utama penerbitan ini ialah untuk menyediakan indikator tambahan kepada pengguna dalam menilai prestasi semasa sektor Pembuatan di Malaysia.

## SKOP DAN LIPUTAN

Data kapasiti penggunaan Pembuatan dipungut dalam Survei Pembuatan Bulanan yang meliputi seluruh Malaysia. Penerbitan ini memaparkan statistik kapasiti penggunaan industri Pembuatan di Malaysia di peringkat Bahagian (2-digit), Kumpulan (3-digit) dan negeri mulai Januari 2015 yang diterbitkan buat kali pertama pada Mei 2023.

Statistik bagi industri yang mempunyai perwakilan kurang daripada tiga pertubuhan telah digabungkan kepada industri terhampir bagi memelihara kerahsiaan responden seperti mana yang termaktub dalam Akta Perangkaan 1965 (Disemak - 1989).

| Sektor Pembuatan                                                                                                          | MSIC (2-digit) | Keterangan Subsektor                                                |
|---------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------|
| <b>2 5 1</b><br><b>Industri</b><br><b>Seksyen C -</b><br>24 Bahagian yang terdiri daripada 71 kumpulan aktiviti pembuatan | 10, 11, 12     | Makanan, minuman dan tembakau                                       |
|                                                                                                                           | 13, 14, 15     | Tekstil, pakaian, kulit dan kasut                                   |
|                                                                                                                           | 16, 17, 18, 31 | Produk kayu, perabot, keluaran kertas dan percetakan                |
|                                                                                                                           | 19, 20, 21, 22 | Petroleum, kimia, getah dan plastik                                 |
|                                                                                                                           | 23, 24, 25     | Produk mineral bukan logam, logam asas dan produk logam yang direka |
|                                                                                                                           | 26, 27, 28     | Produk elektrik dan elektronik                                      |
|                                                                                                                           | 29, 30, 32, 33 | Kelengkapan pengangkutan dan pembuatan lain                         |

## SUMBER STATISTIK

Rangka statistik bagi survei ini adalah daripada *Malaysia Statistical Business Register* (MSBR). MSBR adalah senarai pertubuhan/perusahaan yang beroperasi di Malaysia yang merangkumi Daftar Syarikat (ROC), Daftar Perniagaan (ROS) dan Perkongsian Liabiliti Terhad (LLP) yang berdaftar dengan Suruhanjaya Syarikat Malaysia (SSM) serta pertubuhan yang berdaftar dengan pihak berkuasa tempatan (PBT) dan badan profesional. Senarai di MSBR dikemaskini secara berkala berdasarkan survei dan banci yang dijalankan oleh Jabatan Perangkaan Malaysia (DOSM) dan sumber data pentadbiran daripada agensi lain. Sumber utama data pentadbiran adalah daripada SSM. Selain itu, DOSM juga bekerjasama untuk mendapatkan maklumat terkini daripada agensi lain seperti Kumpulan Wang Simpanan Pekerja (KWSP), Jabatan Kastam Diraja Malaysia (JKDM), Lembaga Hasil Dalam Negeri Malaysia (LHDNM) dan PBT.

Rangka dikemaskini dengan mengambil kira pertubuhan baharu dan merekodkan perubahan status yang berlaku terhadap pertubuhan tersebut seperti tutup, tidak beroperasi, perubahan jenis aktiviti dan lokasi perniagaan/ alamat pos bagi memastikan maklumat yang terdapat dalam rangka adalah yang terkini.

## JENIS AKTIVITI PERNIAGAAN

Jenis aktiviti perniagaan merujuk kepada aktiviti utama dan sekunder. Aktiviti utama merujuk kepada aktiviti yang mana pertubuhan menumpukan sebahagian besar sumbernya atau memberi sumbangan besar dari segi pendapatan. Aktiviti sekunder didefinisikan sebagai aktiviti sampingan kepada aktiviti utama. Klasifikasi industri bagi pertubuhan adalah berasaskan kepada aktiviti utama berdasarkan kepada Piawaian Klasifikasi Industri Malaysia (MSIC 2008) Versi 1.0. MSIC 2008 adalah selaras dengan *International Standard Industrial Classification of All Economic Activities (ISIC), Rev. 4, United Nations* dengan pengubahsuaian mengikut keperluan tempatan.

## KONSEP DAN DEFINISI

Konsep dan definisi yang digunakan selari dengan manual *International Recommendations for Industrial Statistics 2008, United Nations Statistics Division*. Takrif Pembuatan yang digunakan dalam survei ini adalah selaras dengan MSIC 2008 Versi 1.0.

**Pembuatan** ditakrifkan sebagai perubahan fizikal atau kimia ke atas bahan atau komponen menjadi produk baru sama ada kerja itu dilakukan oleh jentera yang dijalankan oleh kuasa atau yang dijalankan dengan tangan, sama ada dijalankan dalam kilang atau di rumah pekerja dan sama ada barang keluaran dijual secara borong atau runcit.

**Kapasiti penggunaan** merujuk kepada nisbah output sebenar yang dihasilkan berbanding pengeluaran output pada kapasiti penuh melalui gabungan optimum mesin, bahan mentah dan buruh.

**Industri berorientasikan Eksport** dikelaskan 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.

## REKA BENTUK PENSAMPELAN

Reka bentuk pensampelan bagi survei ini adalah pensampelan rawak strata satu peringkat. Pertubuhan dikelaskan sebagai unit pensampelan manakala beberapa kategori strata telah dikenalpasti.

Setiap strata telah dibentuk kepada tiga (3) substrata untuk memastikan sampel yang diagihkan mengambil kira ciri-ciri ekonomi strata tersebut. Substrata utama bersifat heterogen dan diliputi secara penuh, manakala substrata selainnya bersifat homogen disampelkan.

Substrata utama meliputi pertubuhan kategori besar dan yang mempunyai jumlah hasil yang signifikan dalam industri berkaitan manakala bagi substrata kedua dan ketiga berdasarkan kategori Perusahaan Mikro, Kecil dan Sederhana (PMKS).

## SAIZ SAMPEL

Statistik utama yang digunakan untuk penganggaran saiz sampel adalah nilai jualan. Formula yang digunakan dalam penganggaran saiz sampel bagi strata adalah seperti berikut:

$$n = \frac{(\sum N_i S_i)^2}{V + \sum N_i S_i^2}$$

di mana:

|                                |                                     |
|--------------------------------|-------------------------------------|
| $n$ = saiz sampel              | $N_i$ = saiz populasi bagi strata i |
| $S_i^2$ = varian bagi strata i | $V$ = varian sasaran                |

$$V = RSE^2 \cdot \left(\frac{\hat{Y}_i}{Z}\right)^2$$

di mana:

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| $\hat{Y}_i$ = jumlah nilai jualan bagi strata i | $RSE$ = ralat piawai relatif |
| $Z$ = nilai aras keyakinan                      |                              |

Sampel akan diagihkan kepada substrata dalam industri liputan dengan menggunakan kaedah *Neyman Allocation* seperti berikut:

$$n_{hi} = \left(\frac{N_h S_h}{\sum N_h S_h}\right) n_i$$

$$h = 2, 3 \text{ dan } 4$$

$$i = 1, 2, \dots$$

di mana:

|                                                        |                                        |
|--------------------------------------------------------|----------------------------------------|
| $n_{hi}$ = saiz sampel bagi substrata h dalam strata i | $N_h$ = saiz populasi bagi substrata h |
| $S_h$ = sisihan piawai bagi substrata h                | $n_i$ = saiz sampel bagi strata i      |
| $h$ = substrata                                        | $i$ = strata                           |

Pertubuhan kategori substrata utama diliputi sepenuhnya, manakala pertubuhan bagi substrata kedua dan ketiga dipilih secara rawak mengikut kaedah pensampelan bersistematik.

## PROSEDUR PENGIRAAN

Statistik kapasiti penggunaan Pembuatan disusun mengikut subsektor, Bahagian (2-digit), Kumpulan (3-digit) dan negeri. Pengiraan statistik kapasiti penggunaan Pembuatan (CU) di peringkat Malaysia (1D),

$$CU(1D) = \frac{\sum_{k=1}^{24} [CU(2D) \times WVA(2D)]_k}{WVA(1D)}$$

di mana:

|                                                                 |               |
|-----------------------------------------------------------------|---------------|
| $WVA(2D)$ = wajaran nilai ditambah bagi MSIC Bahagian (2-digit) | $WVA(1D) = 1$ |
|-----------------------------------------------------------------|---------------|

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| $CU(2D)$ = CU bagi MSIC Bahagian (2-digit) | $k = 1, 2, 3, \dots, 24$ iaitu 24 Bahagian (2-digit) |
|--------------------------------------------|------------------------------------------------------|

Prosedur pengiraan yang sama digunakan untuk mendapatkan kapasiti penggunaan Pembuatan di peringkat negeri.

## UNIT PELAPOR

Unit pelapor bagi survei ini ialah pertubuhan. Sesebuah pertubuhan secara ideal ditakrifkan sebagai “satu unit ekonomi yang bergiat di bawah satu hak milik atau penguasaan tunggal, iaitu di bawah satu entiti yang sah dan menjalankan satu jenis aktiviti ekonomi utama di satu lokasi fizikal”. Setiap pertubuhan diberikan klasifikasi industri berdasarkan aktiviti utamanya dan bukannya mengikut aktiviti syarikat induk. Bagi kes entiti yang mempunyai pelbagai aktiviti, unit yang terlibat dalam aktiviti yang berlainan dalam lokasi yang sama membentuk 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 praktis akaun biasanya disediakan secara berpusat kerana kesukaran untuk memperoleh data yang berasingan bagi setiap unit atau cawangan. Entiti atau ‘enterprise’ ini akan dianggap sebagai satu unit pelapor dan dibenarkan mengemukakan soal selidik yang menggabungkan semua unit atau cawangannya.

## KEPERLUAN KERAHSIAAN

Survei ini dijalankan di bawah peruntukan Akta Perangkaan 1965 (Disemak 1989). Akta ini mensyaratkan bahawa kandungan penyata individu adalah SULIT. Selaras dengan peruntukan dalam Akta tersebut, hanya angka agregat akan diterbitkan.

## PINDAAN

Pindaan akan dibuat ke atas statistik yang telah diterbitkan berdasarkan data terkini yang diperoleh.

## SIMBOL DAN SINGKATAN

Simbol-simbol berikut telah digunakan dalam keseluruhan penerbitan:

**t.t.t.l.** : Tidak terkelas di tempat lain

**ST** : Suku Tahunan

**%** : Peratus

**CU** : Kapasiti Penggunaan

**W.P.** : Wilayah Persekutuan

## OBJECTIVE

The main objective of this publication is to provide additional indicators for the users in assessing the performance of the Manufacturing sector in Malaysia.

## SCOPE AND COVERAGE

Manufacturing capacity utilisation data was collected from the Monthly Manufacturing Survey which covered the whole Malaysia. This publication presents statistics on the Manufacturing capacity utilisation at Division (2-digit), Group (3-digit) and state level since January 2015 which was released for the first time in May 2023.

Statistics for industries with less than three establishments was combined to the closest industry to ensure the confidentiality of the respondents as stipulated under the Statistics Act 1965 (Revised-1989).

| Manufacturing sector                                                                                       | MSIC (2-digit) | Sub-sector Description                                                   |
|------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------|
| <b>2 5 1</b><br>Industries<br>Section C -<br>24 Divisions consist of 71 groups in manufacturing activities | 10, 11, 12     | Food, beverages and tobacco                                              |
|                                                                                                            | 13, 14, 15     | Textiles, wearing apparel, leather and footwear                          |
|                                                                                                            | 16, 17, 18, 31 | Wood products, furniture, paper products and printing                    |
|                                                                                                            | 19, 20, 21, 22 | Petroleum, chemical, rubber and plastics                                 |
|                                                                                                            | 23, 24, 25     | Non-metallic mineral products, basic metal and fabricated metal products |
|                                                                                                            | 26, 27, 28     | Electrical and electronic products                                       |
|                                                                                                            | 29, 30, 32, 33 | Transport equipment and other manufacturers                              |
|                                                                                                            |                |                                                                          |

## STATISTICAL FRAME

The statistical frame of this survey is from the Malaysia Statistical Business Register (MSBR). MSBR is a list of organisations/ enterprises operating in Malaysia that includes the Register of Companies (ROC), Register of Business (ROB) and Limited Liability Partnership (LLP) registered with the Companies Commission of Malaysia (CCM) as well as organisations registered with local authorities (PBT) and professional bodies. The list in MSBR is updated regularly based on surveys and censuses conducted by the Department of Statistics Malaysia (DOSM) and administrative data sources from various agencies. The main source of administrative data is from the CCM. In addition, DOSM also works together to obtain the latest information from other agencies such as the Employees' Provident Fund (EPF), the Royal Malaysian Customs Department (JKDM), the Inland Revenue Board of Malaysia (LHDNM) and PBT.

The frame is updated to take into account new establishments and to record any changes in the Status of the establishments such as closed down, not in operation, change in activity and location/ correspondence address to ensure the frame is at the current status.

## TYPE OF BUSINESS

Type of business activity is divided into primary and secondary. The primary activity refers to the activities which focus on its main resources and income. Secondary activities are defined as those incidental or ancillary to the primary activity. The classification of the establishment's industry is based on the primary activity based on the Malaysia Standard Industrial Classification (MSIC 2008) Version 1.0. The MSIC 2008 conforms to the International Standard Industrial Classification of All Economic Activities (ISIC), Rev. 4, United Nations, with modifications to suit local conditions.

## CONCEPT AND DEFINITION

Concepts and definitions used are in line with the manual of Recommendations for Industrial Statistics 2008, United Nations Statistics Division. The definition of manufacturing used in this survey is consistent with MSIC 2008 Ver. 1.0.

**Manufacturing** is defined as the physical or chemical transformation of materials or components into new products, whether the work is performed by power-driven machines or by hand, whether it is done in a factory or in the worker's home, and whether the products are sold at wholesale or retail.

**Capacity utilisation** refers to a ratio of actual output produced to the production of output at full capacity through an optimal combination of machinery, raw materials and labour.

**Export-oriented industry** classified based on 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.

## SAMPLING DESIGN

Sampling design of the survey is a one-stage stratified random sampling. The establishment is classified as sampling unit while a few categories of stratum was identified.

Each stratum has been set up to three (3) substrata to ensure the distributed sample takes into account the economic characteristics of the stratum. The main substratum is heterogeneous and was fully covered, whereas other substratum that are homogeneous were sampled.

Main substratum include large establishments which have a significant total revenue in the respective industry while for the second and third substratum are based on Micro, Small and Medium Enterprise (SME) categories.

## SAMPLE SIZE

The main statistics used to estimate the sample size is the sales value. The formula used in the estimation of the sample size for a stratum is as follows:

$$n = \frac{(\sum N_i S_i)^2}{V + \sum N_i S_i^2}$$

where:

$$\begin{array}{ll} n &= \text{sample size} \\ S_i^2 &= \text{variance for stratum } i \end{array} \quad \begin{array}{ll} N_i &= \text{population size for stratum } i \\ V &= \text{desired variance} \end{array}$$

$$V = RSE^2 \cdot \left(\frac{\hat{Y}_i}{Z}\right)^2$$

where:

$$\begin{array}{ll} \hat{Y}_i &= \text{estimated sales value for stratum } i \\ Z &= \text{value of confidence level} \end{array} \quad RSE = \text{relative standard error}$$

Sample is distributed to substratum of the industry using Neyman Allocation method as follows:

$$n_{hi} = \left(\frac{N_h S_h}{\sum N_h S_h}\right) n_i$$

$$h = 2, 3 \text{ and } 4$$

$$i = 1, 2, \dots$$

where:

$$\begin{array}{ll} n_{hi} &= \text{sample size for substratum } h \text{ of stratum } i \\ S_h &= \text{standard deviation for substratum } h \\ h &= \text{substratum} \end{array} \quad \begin{array}{ll} N_h &= \text{population size for substratum } h \\ n_i &= \text{sample size for stratum } i \\ i &= \text{stratum} \end{array}$$

Establishments of the main substratum were fully covered while establishments of the second and third substratum were randomly selected using systematic random sampling.

## COMPUTATIONAL PROCEDURE

Manufacturing capacity utilisation statistics was compiled by sub-sector, Division (2-digit), Group (3-digit) and state. Calculation of Manufacturing capacity utilisation (CU) at Malaysia level (1D),

$$CU(1D) = \frac{\sum_{k=1}^{24} [CU(2D) \times WVA(2D)]_k}{WVA(1D)}$$

where:

$$WVA(2D) = \text{Weighted of value-added by MSIC Division (2-digit)} \quad WVA(1D) = 1$$

$$CU(2D) = \text{CU by MSIC Division (2-digit)} \quad k = 1, 2, 3, \dots, 24 \text{ which 24 Division 2-digit}$$

The same procedure was used to derive Manufacturing capacity utilisation at the state level.

## REPORTING UNIT

The reporting unit used in the survey was the establishment. The 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, if 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.

## CONFIDENTIALITY REQUIRED

The survey is conducted under the provisions of the Statistics Act 1965 (Revised-1989). The Act stipulates that the contents of individual returns are confidential. In conformity with the stipulations of this Act, only aggregated figures are published.

## REVISIONS

Revisions will be made to the published figures based on the latest data available.

## SYMBOLS AND ABBREVIATIONS

The following symbols have been used throughout the publication:

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**n.e.c.** : Not elsewhere classified

**Q** : Quarter

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**%** : Percent

**CU** : Capacity Utilisation

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**W.P.** : Wilayah Persekutuan

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