



**JABATAN PERDANA MENTERI
JABATAN PERANGKAAN MALAYSIA**

PERANGKAAN PEMBUATAN BULANAN
MONTHLY MANUFACTURING STATISTICS

JANUARI 2022
JANUARY

Dikeluarkan pada : 11 MAC 2022
Released on MARCH

PEMAKLUMAN / ANNOUNCEMENT

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

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Jabatan Perangkaan Malaysia

Department of Statistics, Malaysia

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Harga/Price	: RM10.00

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ISSN 0128-3499



KATA PENGANTAR

Penerbitan ini memaparkan perangkaan nilai jualan, bilangan pekerja bergaji dan gaji & upah secara bulanan berdasarkan Survei Pembuatan Bulanan. Objektif utama penerbitan ini adalah untuk menyediakan data aliran terkini sektor pembuatan bagi membantu pengguna dalam perancangan dan penggubalan dasar serta membuat keputusan.

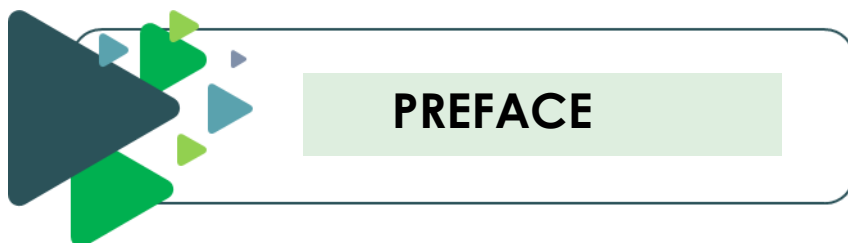
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Jabatan Perangkaan Malaysia merakamkan penghargaan atas kerjasama yang diberikan oleh responden dan juga semua pihak yang telah menyumbang secara langsung dan tidak langsung dalam menjayakan penerbitan ini. Setiap maklum balas dan cadangan untuk penambahbaikan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

Dato' Sri Dr. Mohd Uzir Mahidin

Ketua Perangkawan Malaysia

Mac 2022



This publication presents monthly statistics on sales value, number of employees and salaries & wages based on the Monthly Manufacturing Survey. The main objective of this publication is to provide statistics on the latest trends of the manufacturing sector to assist users in the planning and formulation of policies and decision making.

The summary findings and detailed statistical tables are highlighted in the first and second part of this publication. Meanwhile, the technical aspects on scope and coverage, concepts and definitions used are provided in the third part to assist users to understand the published statistics.

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

Dato' Sri Dr. Mohd Uzir Mahidin

Chief Statistician Malaysia

March 2022



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**KALENDAR KELUARAN AWALAN 2022,
PERANGKAAN PEMBUATAN BULANAN**
ADVANCE RELEASE CALENDAR YEAR 2022,
MONTHLY MANUFACTURING STATISTICS

Bulan rujukan / Reference month	Tarikh / Date
Januari 2022 / January 2022	11.03.2022
Februari 2022 / February 2022	11.04.2022
Mac 2022 / March 2022	10.05.2022
April 2022 / April 2022	10.06.2022
Mei 2022 / May 2022	08.07.2022
Jun 2022 / June 2022	09.08.2022
Julai 2022 / July 2022	09.09.2022
Ogos 2022 / August 2022	12.10.2022
September 2022 / September 2022	08.11.2022
Oktober 2022 / October 2022	12.12.2022
November 2022 / November 2022	10.01.2023
Disember 2022 / December 2022	08.02.2023

Nota / Notes :

Kenyataan akhbar dihantar kepada pihak media pada tarikh pengeluaran dengan masa embargo ditetapkan bagi penyiaran. Kenyataan akhbar tersebut disiarkan selepas masa embargo di portal Jabatan Perangkaan Malaysia (<http://www.dosm.gov.my>)

A press statement is issued to the media on the date of release with a specified embargo time for release. The press statement is posted after the embargo time on the portal of Department of Statistics, Malaysia (<http://www.dosm.gov.my>)

RINGKASAN PENEMUAN
SUMMARY OF FINDINGS



JABATAN PERDANA MENTERI
JABATAN PERANGKAAN MALAYSIA



Nilai jualan sektor Pembuatan Malaysia berkembang 13.1 peratus pada Januari 2022 dengan jumlah RM139.0 bilion



RM139.0 bilion

13.1%

Dis. 2021 : 15.5%

MoM : -3.4%

**NILAI
JUALAN**



2,274,146 orang

2.2%

Dis. 2021 : 2.7%

MoM : 0.6%

**BILANGAN
PEKERJA**



RM7,865.3 juta

4.1%

Dis. 2021 : 4.9%

MoM : -3.2%

**GAJI &
UPAH**



RM61,116

10.7%

Dis. 2021 : 12.4%

MoM : -4.0%

**NILAI
JUALAN PER
PEKERJA**

NILAI JUALAN MENGIKUT SUBSEKTOR



**Makanan,
Minuman &
Tembakau**

20.6%

Dis. 2021 : 19.0%

MoM : -5.8%



**Tekstil, Pakaian,
Kulit & Kasut**

8.4%

Dis. 2021 : 6.9%

MoM : -1.1%



**Kayu, Perabot,
Keluasan Kertas
& Percetakan**

13.1%

Dis. 2021 : 10.0%

MoM : 4.1%



**Petroleum,
Kimia, Getah &
Plastik**

15.7%

Dis. 2021 : 19.9%

MoM : 1.1%



**Produk Mineral
Bukan Logam,
Logam Asas &
Produk Logam
yang Direka**

8.0%

Dis. 2021 : 7.2%

MoM : 3.2%



**Peralatan
Elektrik &
Elektronik**

10.6%

Dis. 2021 : 18.4%

MoM : -8.0%



**Kelengkapan
Pengangkutan
& Pembuatan
Lain**

7.3%

Dis. 2021 : 1.4%

MoM : -9.1%



Malaysia's Manufacturing sales value expanded by 13.1 per cent in January 2022 with the total value of RM139.0 billion



RM139.0 billion

13.1%

Dec. 2021 : 15.5%
MoM : -3.4%

**SALES
VALUE**



2,274,146 persons

2.2%

Dec. 2021 : 2.7%
MoM : 0.6%

**NUMBER OF
EMPLOYEES**



RM7,865.3 million

4.1%

Dec. 2021 : 4.9%
MoM : -3.2%

**SALARIES &
WAGES**



RM61,116

10.7%

Dec. 2021 : 12.4%
MoM : -4.0%

**SALES
VALUE PER
EMPLOYEE**

SALES VALUE BY SUBSECTOR



**Food,
Beverages &
Tobacco**

20.6%

Dec. 2021 : 19.0%
MoM : -5.8%



**Textile, Wearing
Apparel,
Leather &
Footwear**

8.4%

Dec. 2021 : 6.9%
MoM : -1.1%



**Wood,
Furniture, Paper
Products &
Printing**

13.1%

Dec. 2021 : 10.0%
MoM : 4.1%



**Petroleum,
Chemical,
Rubber &
Plastic**

15.7%

Dec. 2021 : 19.9%
MoM : 1.1%



**Non-Metallic
Mineral Products,
Basic Metal &
Fabricated Metal
Products**

8.0%

Dec. 2021 : 7.2%
MoM : 3.2%



**Electrical &
Electronics
Products**

10.6%

Dec. 2021 : 18.4%
MoM : -8.0%



**Transport
Equipment &
Other
Manufactures**

7.3%

Dec. 2021 : 1.4%
MoM : -9.1%

PERANGKAAAN PEMBUATAN BULANAN, MALAYSIA JANUARI 2022

PRESTASI BULAN JANUARI 2022

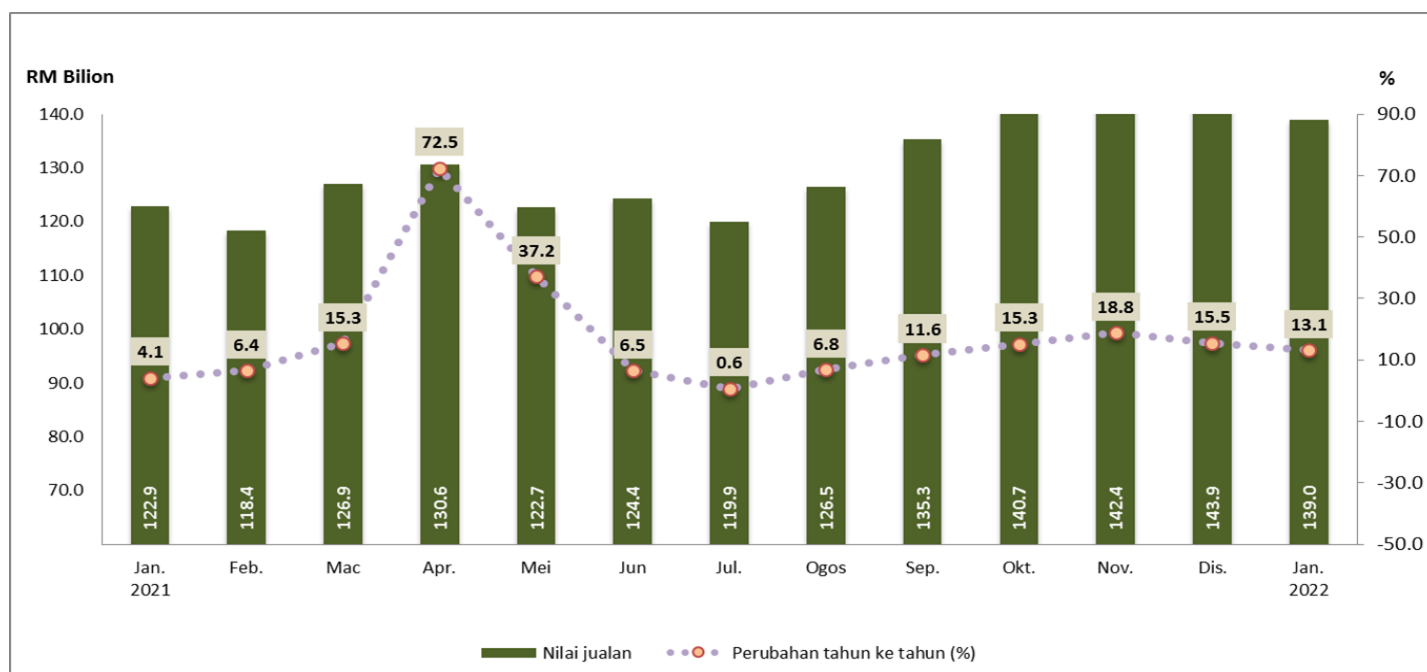
1

NILAI JUALAN SEKTOR PEMBUATAN

Nilai jualan sektor Pembuatan Malaysia pada bulan Januari 2022 berjumlah **RM139.0 billion** meningkat kepada **13.1 peratus** berbanding RM122.9 billion yang dilaporkan tahun sebelumnya (**Carta 1**). Berasaskan pertumbuhan bulan ke bulan, nilai jualan menurun **3.4 peratus** (Dis. 2021: RM143.9 billion) manakala bagi terma pelarasan musim, nilai jualan berkurang **1.8 peratus**.

Peningkatan tahun ke tahun pada bulan Januari 2022 adalah dipacu oleh Produk Makanan, Minuman & Tembakau (**20.6%**), Produk Petroleum, Kimia, Getah & Plastik (**15.7%**) dan Produk Elektrik & Elektronik (**10.6%**).

Carta 1: Nilai Jualan Sektor Pembuatan



* Nota :

- Laporan ini boleh diperolehi daripada laman portal Jabatan Perangkaan Malaysia (<https://www.dosm.gov.my>) di bawah ruangan: **Siaran Terkini**.
- Data bagi bulan Januari 2022 merupakan data **awalan**. Data ini akan dikemaskini berdasarkan data terkini yang diperolehi dan akan diterbitkan dalam penerbitan bulan Februari 2022.

2

BILANGAN PEKERJA

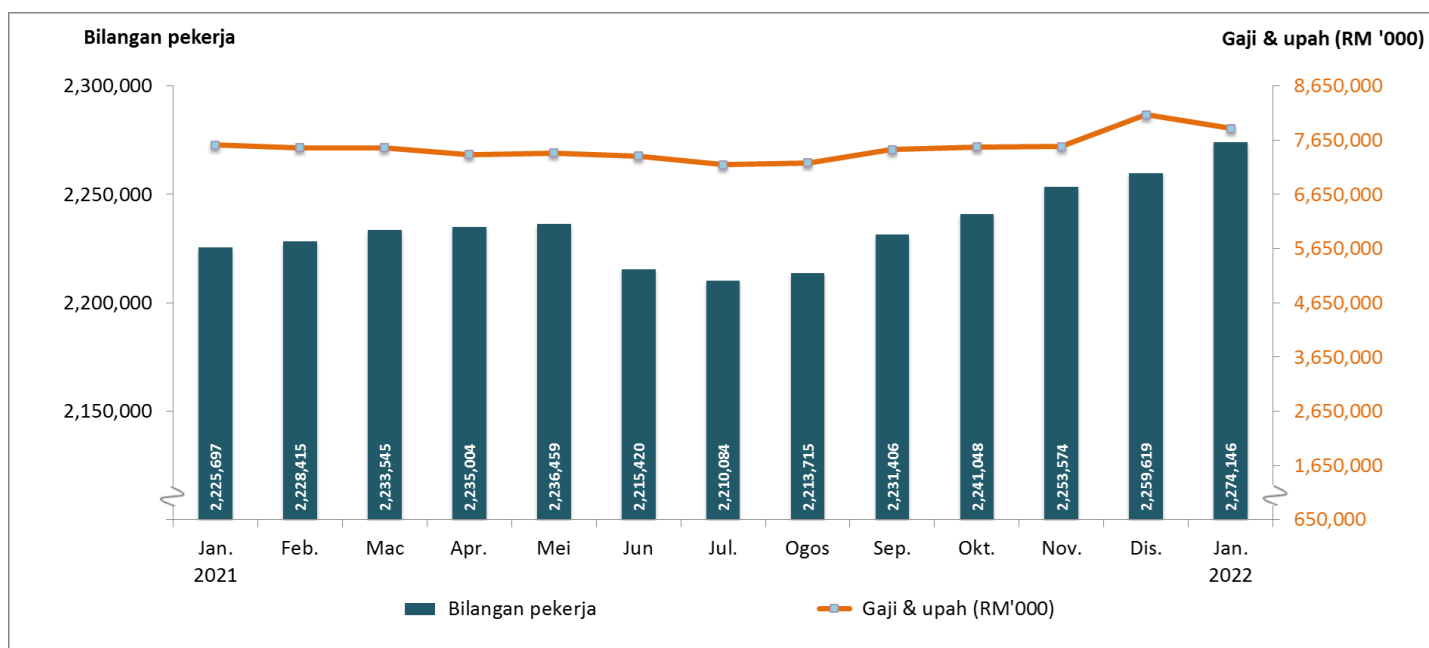
Jumlah pekerja sektor Pembuatan pada bulan Januari 2022 adalah seramai **2,274,146 orang**, meningkat **2.2 peratus** berbanding 2,225,697 orang pada Januari 2021 (**Carta 2**). Pada tempoh rujukan tersebut, bilangan pekerja meningkat **0.6 peratus** berbanding 2,259,619 orang dicatatkan pada bulan sebelumnya.

3

GAJI & UPAH

Gaji & upah yang dibayar adalah berjumlah **RM7,865.3 juta**, meningkat **4.1 peratus** atau **RM307.3 juta** pada Januari 2022 berbanding bulan yang sama tahun sebelumnya. Sementara itu, nilai gaji & upah yang dibayar pada bulan Januari 2022 menurun **3.2 peratus** (**RM256.2 juta**) berbanding Disember 2021.

Carta 2: Bilangan Pekerja dan Gaji & Upah Sektor Pembuatan

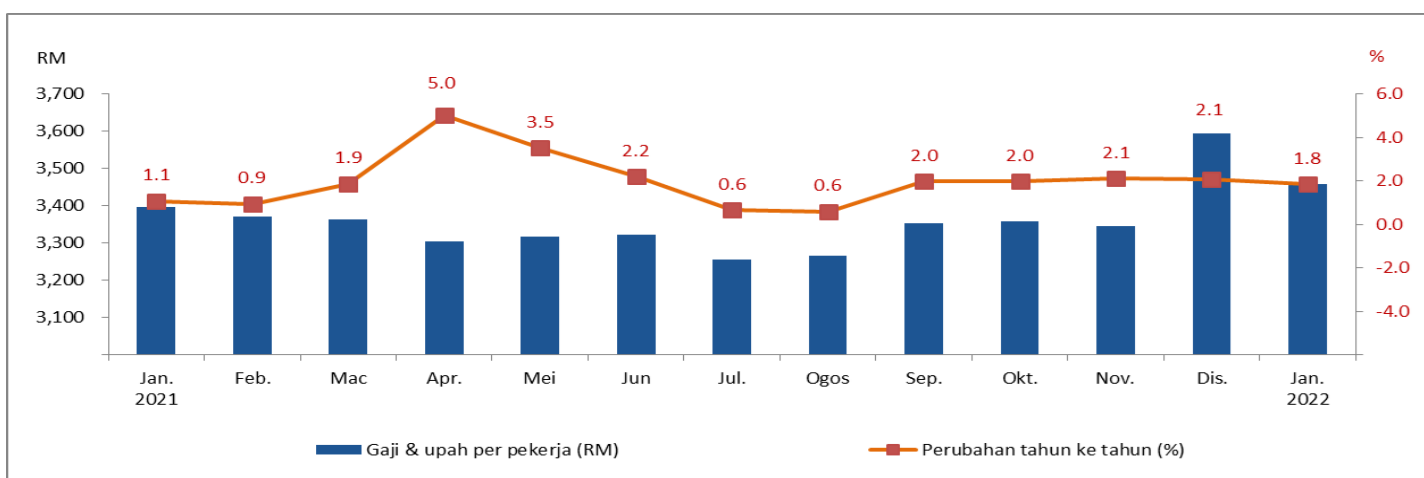


4

PURATA GAJI & UPAH PER PEKERJA

Purata gaji & upah yang dibayar bagi setiap pekerja pada bulan Januari 2022 adalah sebanyak **RM3,459** iaitu meningkat **1.8 peratus** berbanding bulan yang sama tahun 2021 (**Carta 3**). Sementara itu, purata gaji & upah bagi setiap pekerja menurun **3.8 peratus** berbanding Disember 2021 (**RM3,594**).

Carta 3: Gaji & Upah Per Pekerja Sektor Pembuatan

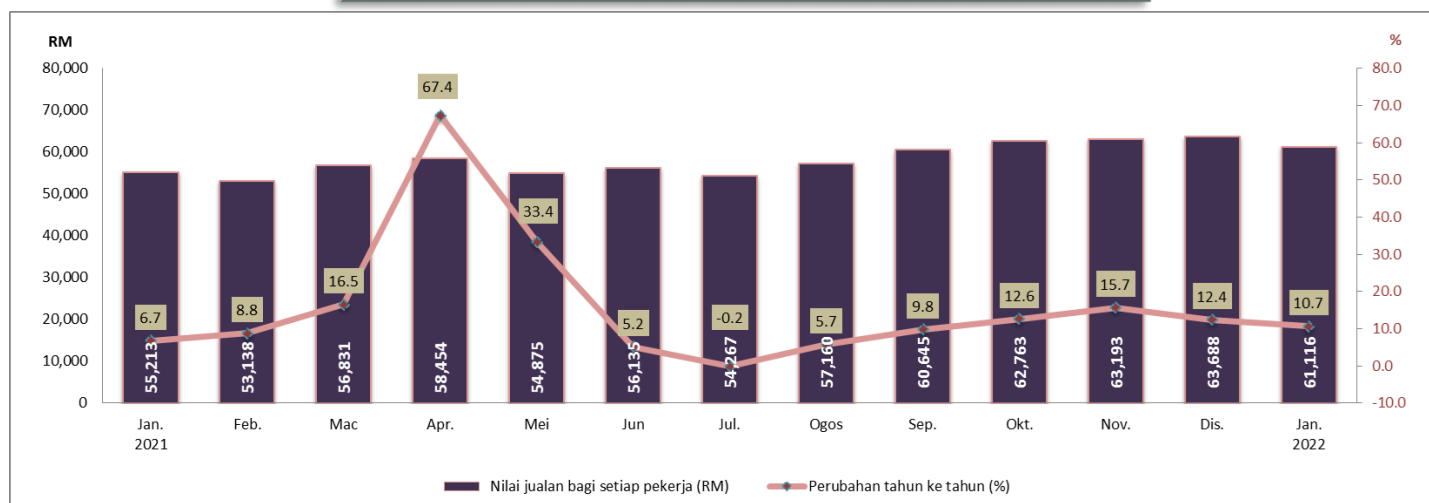


5

NILAI JUALAN PER PEKERJA

Nilai jualan bagi setiap pekerja pada Januari 2022 meningkat **10.7 peratus** kepada **RM61,116** berbanding bulan yang sama tahun sebelumnya (**Carta 4**). Sementara itu, bulan ke bulan, purata nilai jualan bagi setiap pekerja menurun **4.0 peratus**.

Carta 4: Nilai Jualan Per Pekerja Sektor Pembuatan



MONTHLY MANUFACTURING STATISTICS, MALAYSIA

JANUARY 2022

PERFORMANCE IN JANUARY 2022

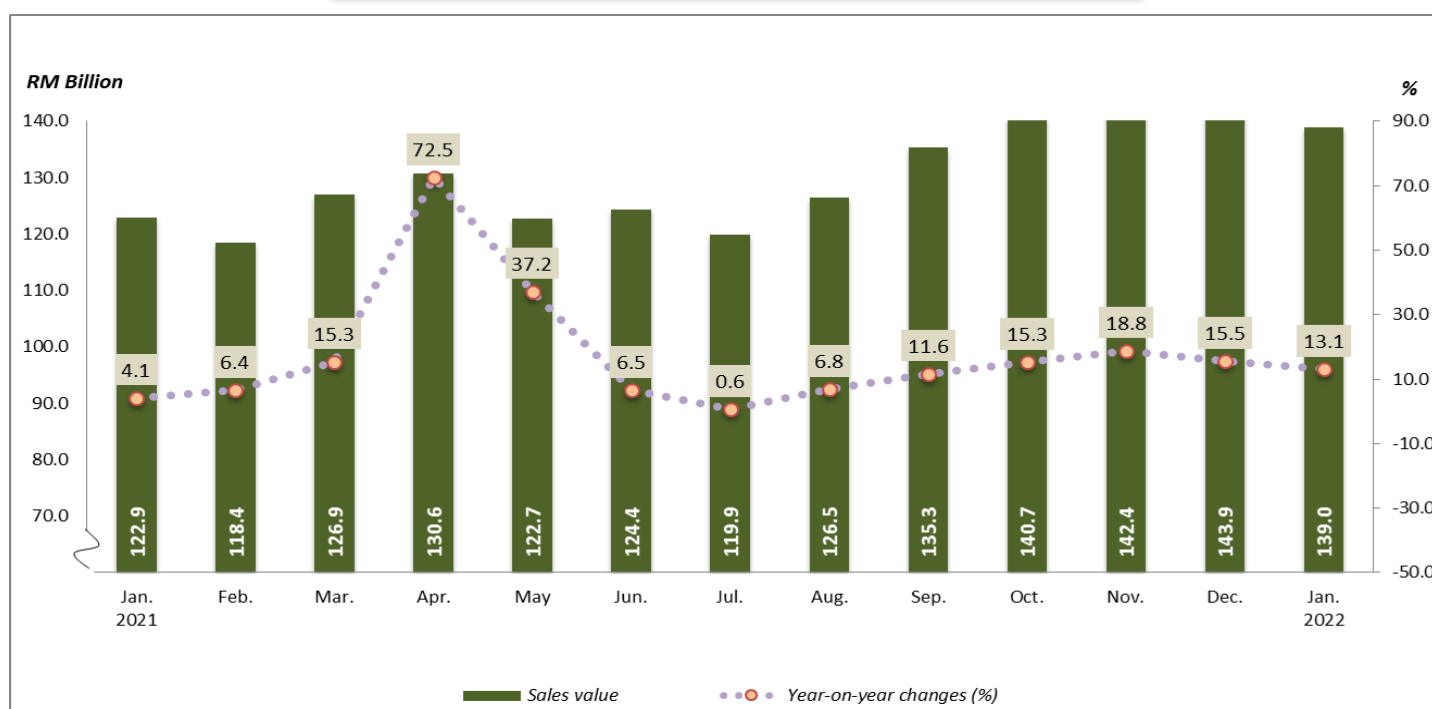
1

SALES VALUE OF THE MANUFACTURING SECTOR

Malaysia's Manufacturing sales in January 2022 stood at **RM139.0 billion**, grew **13.1 per cent** as compared to RM122.9 billion reported a year ago (**Chart 1**). On month-on-month growth, the sales value declined by **3.4 per cent** (Dec. 2021: RM143.9 billion) while in a seasonally adjusted terms, the sales value decreased by **1.8 per cent**.

The year-on-year basis, an increment in January 2022 was driven by Food, Beverages & Tobacco Products (**20.6%**), Petroleum, Chemical, Rubber & Plastic Products (**15.7%**) and Electrical & Electronics Products (**10.6%**).

Chart 1 : Sales Value of the Manufacturing Sector



*Notes:

1. This report can be accessed through the web portal of the Department of Statistics, Malaysia (<https://www.dosm.gov.my>) under the section: **Latest Releases**.
2. Data for January 2022 is **provisional**. The data will be updated based on the latest available figures and subsequently published in the February 2022 publication.

2

NUMBER OF EMPLOYEES

Total employees engaged in the Manufacturing sector in January 2022 was **2,274,146 persons**, an increase of **2.2 per cent** as compared to 2,225,697 persons in January 2021 (**Chart 2**). During the reference period, the number of employees increased by **0.6 per cent** as compared to 2,259,619 persons registered in the preceding month.

3

SALARIES & WAGES

Salaries & wages paid amounted to **RM7,865.3 million**, rose by **4.1 per cent** or **RM307.3 million** in January 2022 as against the same month of the preceding year. Meanwhile, salaries & wages paid in January 2022 decreased by **3.2 per cent** (**RM256.2 million**) as compared to December 2021.

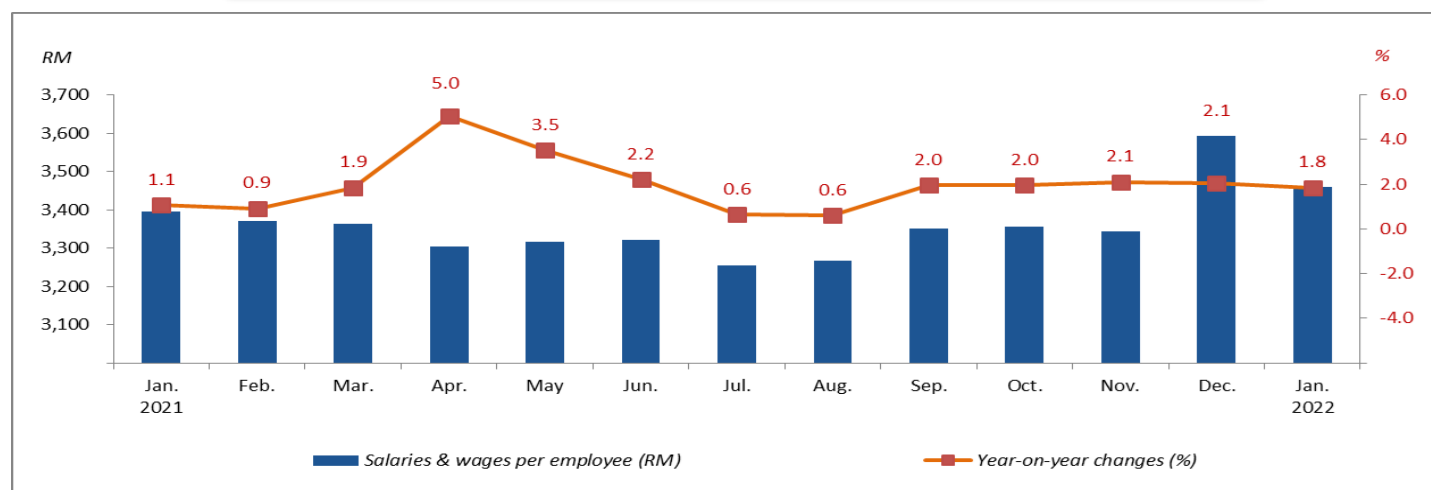
Chart 2 : Number of Employees and Salaries & Wages in Manufacturing Sector



4 AVERAGE SALARIES & WAGES PER EMPLOYEE

The average salaries & wages paid per employee in January 2022 was **RM3,459**, increased by **1.8 per cent** as compared to the same month in 2021 (**Chart 3**). Whilst, average salaries & wages paid per employee decreased **3.8 per cent** as compared to December 2021 (**RM3,594**).

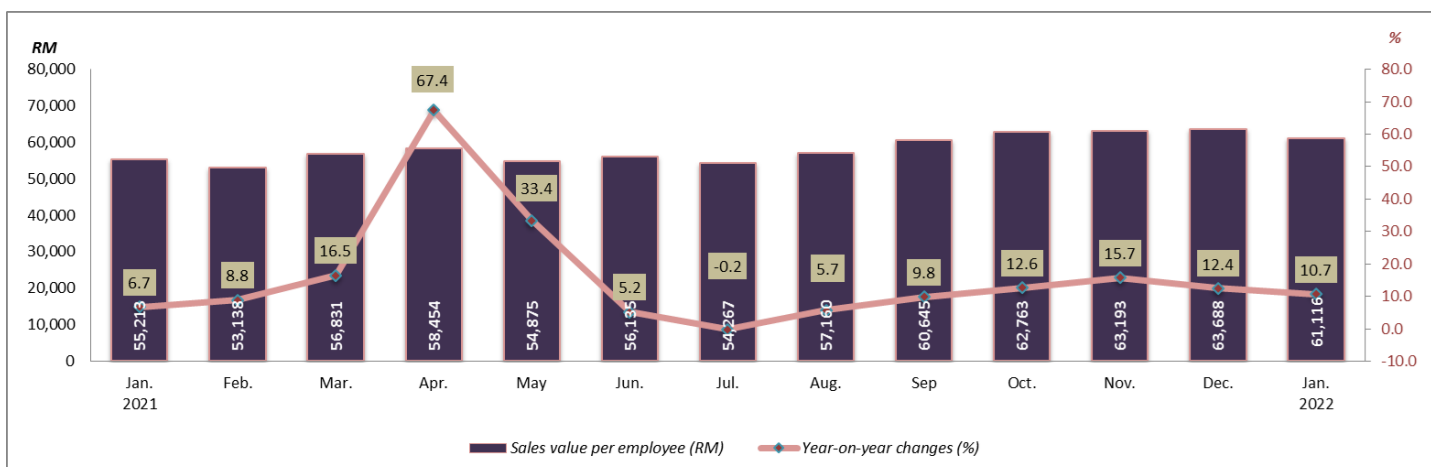
Chart 3 : Salaries & Wages Per Employee in Manufacturing Sector

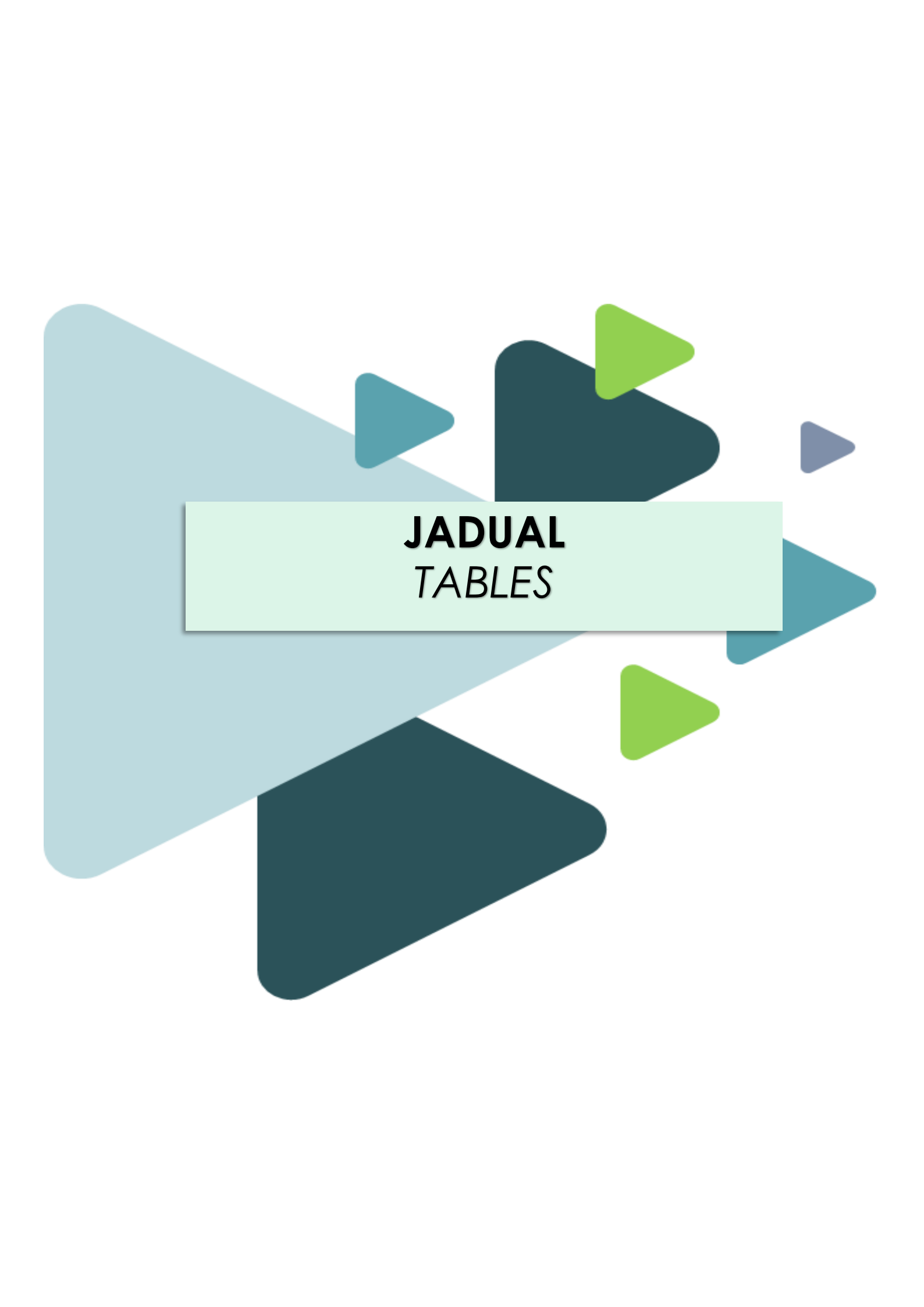


5 SALES VALUE PER EMPLOYEE

The sales value per employee in January 2022 increased by **10.7 per cent** to register **RM61,116** as compared with the same month of the previous year (**Chart 4**). Meanwhile, on month-on-month basis, the average sales value per employee decreased by **4.0 per cent**.

Chart 4 : Sales Value Per Employee in Manufacturing Sector





JADUAL *TABLES*

Jadual 1 : Perangkaan Utama Sektor Pembuatan
Table 1 : Principal Statistics of Manufacturing Sector

Tempoh Period		Nilai Jualan Produk Yang Dibuat Sendiri (Di Kilang) Sales value of own (Ex-factory) (RM Juta/Million)				Bilangan Pekerja Bergaji Pada Akhir Tempoh Number of employees engaged at end of period				Gaji & Upah Yang Dibayar Salaries & wages paid (RM Juta/Million)			
		Data Asal (Original Data)	% YoY	Pelarasan Musim (Seasonally Adjusted)	% MoM	Data Asal (Original Data)	% YoY	Pelarasan Musim (Seasonally Adjusted)	% MoM	Data Asal (Original Data)	% YoY	Pelarasan Musim (Seasonally Adjusted)	% MoM
2019		1,376,027				2,243,788				88,206			
2020		1,346,620	-2.1			2,199,195	-2.0			87,194	-1.1		
2021		1,554,738	15.5			2,259,619	2.7			89,830	3.0		
2020	Q1	339,324	2.2			2,257,273	1.2			22,728	3.4		
	Q2	282,020	-16.5			2,188,142	-2.2			20,906	-4.0		
	Q3	358,828	2.4			2,195,300	-2.4			21,420	-2.7		
	Q4	366,447	3.0			2,199,195	-2.0			22,139	-1.3		
2021	Q1	368,234	8.5			2,233,545	-1.1			22,584	-0.6		
	Q2	377,735	33.9			2,215,420	1.2			22,162	6.0		
	Q3	381,793	6.4			2,231,406	1.6			21,904	2.3		
	Q4	426,976	16.5			2,259,619	2.7			23,180	4.7		
2021	Jan.	122,887	4.1	119,811	0.01	2,225,697	-2.4	2,211,521	0.2	7,558	-1.4	7,423	-0.02
	Feb.	118,412	6.4	129,751	8.3	2,228,415	-2.2	2,214,552	0.1	7,512	-1.3	7,463	0.5
	Mac	126,935	15.3	127,089	-2.1	2,233,545	-1.1	2,224,979	0.5	7,514	0.8	7,407	-0.8
	Apr.	130,646	72.5	135,527	6.6	2,235,004	3.0	2,230,721	0.3	7,386	8.2	7,405	-0.03
	Mei	122,726	37.2	127,415	-6.0	2,236,459	2.8	2,229,970	-0.03	7,416	6.4	7,470	0.9
	Jun	124,363	6.5	128,805	1.1	2,215,420	1.2	2,220,505	-0.4	7,360	3.5	7,426	-0.6
	Jul.	119,934	0.6	118,568	-7.9	2,210,084	0.8	2,212,629	-0.4	7,195	1.5	7,259	-2.2
	Ogo.	126,536	6.8	123,906	4.5	2,213,715	1.0	2,220,109	0.3	7,231	1.7	7,300	0.6
	Sep.	135,323	11.6	131,658	6.3	2,231,406	1.6	2,235,340	0.7	7,479	3.6	7,527	3.1
	Okt.	140,655	15.3	134,714	2.3	2,241,048	2.4	2,251,834	0.7	7,523	4.4	7,635	1.4
	Nov.	142,411	18.8	138,859	3.1	2,253,574	2.6	2,263,852	0.5	7,536	4.8	7,722	1.1
	Dis.	143,911	15.5	138,236	-0.4	2,259,619	2.7	2,267,988	0.2	8,122	4.9	7,783	0.8
2021	Jan.	138,986	13.1	135,764	-1.8	2,274,146	2.2	2,250,916	-0.8	7,865	4.1	7,650	-1.7

Jadual **1.1a** : Nilai Jualan Sektor Pembuatan Mengikut Subsektor
Table : Sales Value of Manufacturing Sector by Sub-sector

Subsektor Sub-sector	2020	2021	2020					
			Q1	Q2	Q3	Q4	Q1	Q2
1. Makanan, minuman dan tembakau	251,984	283,918	53,618	64,554	67,149	66,664	59,219	73,656
Food, beverages and tobacco								
10 Pembuatan produk makanan Manufacture of food products	239,437	270,349	49,605	62,975	63,781	63,077	55,237	70,737
11 Pembuatan minuman Manufacture of beverages	9,487	10,629	3,067	1,395	2,434	2,590	3,009	2,325
12 Pembuatan produk tembakau Manufacture of tobacco products	3,060	2,940	946	184	934	997	973	594
2. Tekstil, pakaian, kulit dan kasut	19,816	21,954	5,529	3,607	5,015	5,665	5,641	5,199
Textiles, wearing apparel, leather and footwear								
13 Pembuatan tekstil Manufacture of textiles	8,867	10,728	2,491	1,577	2,251	2,548	2,594	2,678
14 Pembuatan pakaian Manufacture of wearing apparel	8,771	9,037	2,399	1,662	2,215	2,495	2,391	2,057
15 Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	2,177	2,189	638	369	549	621	656	463
3. Produk kayu, perabot, keluaran kertas dan percetakan	72,615	76,494	20,628	11,530	19,797	20,660	21,054	16,461
Wood products, furniture, paper products and printing								
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	22,282	23,028	7,400	2,300	6,008	6,573	6,881	4,165
17 Pembuatan kertas dan produk kertas Manufacture of paper and paper products	22,276	25,788	5,582	4,934	5,887	5,874	6,180	6,384
18 Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	11,533	12,098	3,170	1,879	3,184	3,300	3,291	2,682
31 Pembuatan perabot Manufacture of furniture	16,524	15,579	4,475	2,416	4,718	4,914	4,702	3,230
4. Petroleum, kimia, getah dan plastik	338,815	432,121	91,295	76,356	82,598	88,566	98,651	111,747
Petroleum, chemical, rubber and plastic								
19 Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	128,477	175,557	40,657	27,680	28,840	31,300	33,513	44,230
20 Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	90,600	102,329	25,391	19,771	22,071	23,367	26,389	23,165
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	7,843	9,185	1,768	2,006	2,111	1,959	2,117	2,260
22 Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	111,894	145,049	23,479	26,899	29,576	31,940	36,632	42,092
5. Produk mineral bukan logam, logam asas dan produk logam yang direka	139,470	149,345	40,753	22,788	36,273	39,656	41,006	33,686
Non-metallic mineral products, basic metal and fabricated metal								
23 Pembuatan produk galian bukan logam lain Manufacture of other non-metallic mineral products	40,189	42,773	12,121	5,878	10,558	11,633	12,338	9,803
24 Pembuatan logam asas Manufacture of basic metals	45,895	49,566	13,128	6,784	12,518	13,465	13,195	10,295
25 Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	53,385	57,006	15,504	10,126	13,197	14,558	15,472	13,588
6. Produk elektrik dan elektronik	422,176	483,198	103,535	86,460	118,052	114,129	115,062	112,357
Electrical and electronic products								
26 Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	343,227	391,925	84,522	69,688	96,026	92,991	94,964	89,376
27 Pembuatan kelengkapan elektrik Manufacture of electrical equipment	42,124	48,489	10,096	8,418	12,051	11,558	10,668	11,692
28 Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	36,825	42,783	8,917	8,354	9,974	9,580	9,430	11,289
7. Kelengkapan pengangkutan dan pembuatan lain	101,743	107,710	23,966	16,725	29,945	31,107	27,602	24,630
Transport equipment and other manufactures								
29 Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	72,975	77,384	15,932	11,717	22,262	23,065	19,553	17,264
30 Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	12,945	14,103	3,766	2,191	3,237	3,752	3,735	3,295
32 Pembuatan lain Other manufacturing	10,499	10,897	2,847	1,947	2,883	2,821	2,885	2,941
33 Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	5,324	5,326	1,421	870	1,563	1,469	1,430	1,129
Pembuatan	Jumlah	1,346,620	1,554,738	339,324	282,020	358,828	366,447	368,234
Manufacturing	Total							377,735

(RM Juta/Million)

2021		2021											2022	
Q3	Q4	Jan.	Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
73,063	77,981	19,772	19,642	19,805	24,322	23,763	25,570	23,110	23,428	26,525	26,644	26,020	25,316	23,842
70,520	73,855	18,473	18,360	18,404	23,034	22,704	24,998	22,455	22,584	25,481	25,183	24,716	23,956	22,472
2,276	3,019	979	981	1,049	1,004	821	499	578	790	908	1,067	975	977	1,042
266	1,108	320	301	352	284	237	72	77	54	135	393	330	384	327
5,046	6,068	1,907	1,848	1,886	1,797	1,717	1,684	1,642	1,677	1,727	1,949	2,029	2,090	2,067
2,542	2,913	858	835	900	882	862	934	858	838	845	920	981	1,012	1,012
2,097	2,492	824	801	766	730	686	640	680	702	715	818	823	852	825
408	662	224	212	220	184	169	110	103	137	167	211	225	226	230
16,769	22,210	7,006	6,712	7,336	6,372	5,455	4,634	4,476	5,842	6,451	6,996	7,607	7,607	7,922
4,709	7,273	2,293	2,177	2,412	1,884	1,265	1,016	1,012	1,744	1,953	2,235	2,467	2,571	2,679
6,476	6,748	1,947	1,965	2,268	2,221	2,079	2,084	2,049	2,195	2,232	2,284	2,285	2,179	2,258
2,708	3,417	1,136	1,091	1,064	1,062	934	687	801	935	971	983	1,210	1,224	1,223
2,876	4,772	1,631	1,478	1,593	1,206	1,177	847	614	968	1,294	1,494	1,646	1,633	1,761
110,869	110,854	32,617	30,649	35,385	37,391	36,714	37,642	38,594	36,647	35,628	35,765	37,790	37,299	37,725
48,092	49,722	11,805	10,576	11,133	14,568	14,947	14,715	16,463	16,084	15,545	15,666	17,604	16,452	17,255
25,586	27,189	8,703	8,570	9,116	7,417	7,405	8,343	8,308	8,817	8,461	8,560	8,877	9,751	9,640
2,405	2,403	660	700	756	722	695	843	766	799	839	818	807	778	819
34,786	31,539	11,449	10,803	14,380	14,684	13,667	13,742	13,058	10,947	10,782	10,720	10,501	10,318	10,012
31,954	42,699	14,198	13,230	13,577	13,219	11,643	8,823	8,520	10,766	12,668	13,570	14,279	14,851	15,328
8,765	11,867	4,222	3,969	4,148	3,709	3,417	2,678	2,662	2,946	3,157	3,559	4,073	4,235	4,425
11,235	14,840	4,562	4,287	4,346	4,216	3,416	2,663	2,488	3,871	4,876	4,920	4,931	4,989	5,005
11,954	15,992	5,414	4,975	5,084	5,295	4,811	3,482	3,370	3,950	4,634	5,090	5,275	5,627	5,899
121,467	134,311	38,267	37,691	39,105	37,685	35,029	39,643	36,823	40,942	43,702	45,080	43,256	45,976	42,314
98,431	109,155	31,435	31,219	32,309	29,877	27,850	31,648	30,008	32,876	35,547	36,676	34,928	37,551	34,327
12,381	13,748	3,739	3,363	3,566	3,934	3,667	4,090	3,750	4,271	4,360	4,586	4,514	4,648	4,383
10,655	11,408	3,092	3,108	3,230	3,873	3,512	3,904	3,066	3,794	3,795	3,818	3,814	3,776	3,605
22,624	32,854	9,121	8,642	9,840	9,859	8,404	6,366	6,767	7,235	8,622	10,651	11,431	10,771	9,788
16,298	24,269	6,392	6,170	6,991	6,894	6,015	4,355	4,976	5,182	6,140	7,901	8,460	7,908	6,931
3,011	4,062	1,266	1,129	1,339	1,337	994	964	866	1,031	1,114	1,303	1,415	1,344	1,299
2,140	2,931	997	909	978	1,148	1,067	726	593	655	891	941	991	999	1,047
1,176	1,591	466	433	531	481	328	321	332	366	477	506	565	519	511
381,793	426,976	122,887	118,412	126,935	130,646	122,726	124,363	119,934	126,536	135,323	140,655	142,411	143,911	138,986

Subsektor Sub-sector	2020	2021	2021				
			Q1	Q2	Q3	Q4	
1. Makanan, minuman dan tembakau Food, beverages and tobacco	7.5	12.7	10.4	14.1	8.8	17.0	
10 Pembuatan produk makanan Manufacture of food products	9.9	12.9	11.4	12.3	10.6	17.1	
11 Pembuatan minuman Manufacture of beverages	-24.5	12.0	-1.9	66.6	-6.5	16.5	
12 Pembuatan produk tembakau Manufacture of tobacco products	-21.7	-3.9	2.9	222.9	-71.5	11.1	
2. Tekstil, pakaian, kulit dan kasut Textiles, wearing apparel, leather and footwear	-11.8	10.8	2.0	44.1	0.6	7.1	
13 Pembuatan tekstil Manufacture of textiles	-11.9	21.0	4.1	69.8	12.9	14.3	
14 Pembuatan pakaian Manufacture of wearing apparel	-10.0	3.0	-0.4	23.8	-5.3	-0.1	
15 Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	-18.0	0.6	2.8	25.6	-25.7	6.6	
3. Produk kayu, perabot, keluaran kertas dan percetakan Wood products, furniture, paper products and printing	-11.9	5.3	2.1	42.8	-15.3	7.5	
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	-24.0	3.4	-7.0	81.0	-21.6	10.7	
17 Pembuatan kertas dan produk kertas Manufacture of paper and paper products	-2.1	15.8	10.7	29.4	10.0	14.9	
18 Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	-8.3	4.9	3.8	42.7	-15.0	3.5	
31 Pembuatan perabot Manufacture of furniture	-7.3	-5.7	5.1	33.7	-39.0	-2.9	
4. Petroleum, kimia, getah dan plastik Petroleum, chemical, rubber and plastic	-2.5	27.5	8.1	46.3	34.2	25.2	
19 Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	-14.0	36.6	-17.6	59.8	66.8	58.9	
20 Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	-12.1	12.9	3.9	17.2	15.9	16.4	
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	16.2	17.1	19.8	12.7	13.9	22.7	
22 Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	26.8	29.6	56.0	56.5	17.6	-1.3	
5. Produk mineral bukan logam, logam asas dan produk logam yang direka Non-metallic mineral products, basic metal and fabricated metal products	-15.3	7.1	0.6	47.8	-11.9	7.7	
23 Pembuatan produk galian bukan logam lain Manufacture of other non-metallic mineral products	-18.5	6.4	1.8	66.8	-17.0	2.0	
24 Pembuatan logam asas Manufacture of basic metals	-12.0	8.0	0.5	51.7	-10.2	10.2	
25 Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	-15.5	6.8	-0.2	34.2	-9.4	9.8	
6. Produk elektrik dan elektronik Electrical and electronic products	-0.5	14.5	11.1	30.0	2.9	17.7	
26 Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	-0.2	14.2	12.4	28.3	2.5	17.4	
27 Pembuatan kelengkapan elektrik Manufacture of electrical equipment	-2.7	15.1	5.7	38.9	2.7	18.9	
28 Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	-0.3	16.2	5.7	35.1	6.8	19.1	
7. Kelengkapan pengangkutan dan pembuatan lain Transport equipment and other manufactures	1.4	5.9	15.2	47.3	-24.4	5.6	
29 Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	6.7	6.0	22.7	47.3	-26.8	5.2	
30 Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	-12.5	8.9	-0.8	50.4	-7.0	8.3	
32 Pembuatan lain Other manufacturing	-5.9	3.8	1.3	51.0	-25.8	3.9	
33 Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	-11.3	0.04	0.6	29.8	-24.8	8.3	
Pembuatan Manufacturing	Jumlah Total	-2.1	15.5	8.5	33.9	6.4	16.5

												(%)
2021												2022
Jan.	Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
7.7	9.0	14.9	20.4	13.8	9.0	7.1	7.0	12.0	11.8	20.7	19.0	20.6
8.9	9.9	15.4	16.1	11.2	10.0	9.3	8.8	13.3	11.2	21.0	19.7	21.7
-9.4	-4.1	8.9	177.0	88.0	-16.2	-19.1	-7.4	4.8	24.3	17.2	8.5	6.4
1.7	1.2	5.4	4,736.7	641.2	-50.5	-75.2	-81.2	-59.9	17.4	7.6	8.3	2.3
-0.4	-1.0	7.9	143.0	38.3	3.6	-0.5	1.9	0.5	3.7	10.9	6.9	8.4
0.1	-1.8	15.0	187.6	52.7	32.4	18.4	9.7	11.0	7.9	18.2	16.9	17.9
-1.2	-0.6	0.9	88.6	23.4	-10.9	-7.3	-1.1	-7.5	-1.8	3.8	-2.1	0.1
1.3	0.8	6.6	303.9	39.2	-45.6	-46.1	-20.6	-9.4	8.4	8.5	3.1	2.4
-0.6	-1.8	8.8	215.0	68.1	-26.0	-31.1	-10.6	-4.6	2.0	10.5	10.0	13.1
-10.9	-11.0	1.3	1,192.4	434.9	-47.0	-48.3	-9.1	-8.4	6.2	13.0	12.5	16.8
8.4	4.9	18.6	62.2	28.2	7.2	4.9	11.9	13.2	13.6	15.9	15.2	16.0
1.7	2.5	7.6	169.9	49.2	-20.1	-21.7	-13.3	-10.2	-9.7	9.8	10.4	7.7
4.3	2.0	8.9	956.3	54.5	-45.0	-60.8	-38.6	-17.8	-9.8	1.0	0.2	8.0
2.7	6.2	15.3	49.1	48.7	41.6	42.3	31.4	29.2	27.0	29.0	19.9	15.7
-21.2	-16.8	-14.1	46.8	70.9	63.3	75.7	60.8	64.2	64.8	69.1	44.5	46.2
1.0	4.0	6.8	23.9	14.2	14.3	13.2	19.0	15.5	18.3	15.4	15.5	10.8
16.7	20.5	21.9	16.2	7.8	13.9	10.4	12.3	19.0	21.7	22.1	24.4	24.0
50.8	47.8	67.7	71.7	55.1	44.1	34.2	12.1	7.0	-0.3	-0.2	-3.2	-12.6
-0.8	-2.1	5.1	192.9	57.1	-18.8	-27.4	-10.7	1.5	6.3	9.5	7.2	8.0
-0.2	-1.5	7.4	294.8	75.2	-10.4	-23.7	-16.3	-11.1	-2.3	4.9	3.1	4.8
-0.2	-2.7	4.8	251.0	99.6	-31.2	-36.5	-5.2	8.1	8.5	11.0	11.2	9.7
-1.8	-2.1	3.6	123.2	28.3	-13.0	-22.1	-11.3	4.9	10.9	11.8	7.2	9.0
6.4	10.3	17.0	80.2	31.0	2.2	-8.7	6.9	10.8	16.8	17.8	18.4	10.6
7.0	12.0	18.5	75.7	29.1	1.7	-8.2	6.1	9.9	17.1	17.4	17.7	9.2
3.8	1.9	11.7	100.3	40.5	6.4	-8.6	5.7	11.7	13.3	19.1	25.0	17.2
3.7	4.3	9.3	98.8	37.5	1.4	-13.2	16.7	18.9	19.0	20.7	17.6	16.6
5.5	8.2	34.2	332.4	59.5	-30.6	-34.0	-28.6	-9.8	7.4	8.2	1.4	7.3
9.7	13.7	49.4	385.6	65.8	-34.7	-35.8	-31.5	-11.6	8.9	8.1	-0.9	8.4
-5.1	-4.9	7.6	259.8	29.7	-8.4	-17.7	-3.8	0.2	6.3	9.4	9.0	2.7
-1.8	-2.8	9.1	239.2	61.6	-23.5	-36.3	-32.8	-8.8	0.4	5.9	5.5	4.9
-1.4	-0.9	3.8	219.4	52.7	-36.5	-36.6	-29.3	-8.5	1.8	9.8	13.7	9.6
4.1	6.4	15.3	72.5	37.2	6.5	0.6	6.8	11.6	15.3	18.8	15.5	13.1

Jadual **1.1c** : Nilai Jualan Sektor Pembuatan Mengikut Subsektor: Perubahan Peratusan Bulanan/Suku Tahunan
 Table : Sales Value of Manufacturing Sector by Sub-sector: Monthly/Quarterly Percentage Change

Subsektor Sub-sector	2021					
	Q1	Q2	Q3	Q4	Jan.	
1. Makanan, minuman dan tembakau	-11.2	24.4	-0.8	6.7	-7.1	
Food, beverages and tobacco						
10 Pembuatan produk makanan Manufacture of food products	-12.4	28.1	-0.3	4.7	-7.7	
11 Pembuatan minuman Manufacture of beverages	16.2	-22.7	-2.1	32.6	8.8	
12 Pembuatan produk tembakau Manufacture of tobacco products	-2.4	-38.9	-55.2	316.2	-9.9	
2. Tekstil, pakaian, kulit dan kasut	-0.4	-7.8	-2.9	20.2	-2.5	
Textiles, wearing apparel, leather and footwear						
13 Pembuatan tekstil Manufacture of textiles	1.8	3.3	-5.1	14.6	-0.9	
14 Pembuatan pakaian Manufacture of wearing apparel	-4.2	-14.0	1.9	18.9	-5.3	
15 Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	5.6	-29.4	-12.0	62.5	2.2	
3. Produk kayu, perabot, keluaran kertas dan percetakan	1.9	-21.8	1.9	32.4	1.3	
Wood products, furniture, paper products and printing						
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	4.7	-39.5	13.1	54.5	0.3	
17 Pembuatan kertas dan produk kertas Manufacture of paper and paper products	5.2	3.3	1.4	4.2	2.9	
18 Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	-0.3	-18.5	0.9	26.2	2.4	
31 Pembuatan perabot Manufacture of furniture	-4.3	-31.3	-11.0	65.9	0.04	
4. Petroleum, kimia, getah dan plastik	11.4	13.3	-0.8	-0.01	4.8	
Petroleum, chemical, rubber and plastic						
19 Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	7.1	32.0	8.7	3.4	3.7	
20 Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	12.9	-12.2	10.5	6.3	3.1	
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	8.1	6.8	6.4	-0.1	5.6	
22 Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	14.7	14.9	-17.4	-9.3	7.4	
5. Produk mineral bukan logam, logam asas dan produk logam yang direka	3.4	-17.9	-5.1	33.6	2.5	
Non-metallic mineral products, basic metal and fabricated metal products						
23 Pembuatan produk galian bukan logam lain Manufacture of other non-metalic mineral products	6.1	-20.5	-10.6	35.4	2.7	
24 Pembuatan logam asas Manufacture of basic metals	-2.0	-22.0	9.1	32.1	1.7	
25 Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	6.3	-12.2	-12.0	33.8	3.1	
6. Produk elektrik dan elektronik	0.8	-2.4	8.1	10.6	-1.5	
Electrical and electronic products						
26 Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	2.1	-5.9	10.1	10.9	-1.5	
27 Pembuatan kelengkapan elektrik Manufacture of electrical equipment	-7.7	9.6	5.9	11.0	0.5	
28 Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	-1.6	19.7	-5.6	7.1	-3.7	
7. Kelengkapan pengangkutan dan pembuatan lain	-11.3	-10.8	-8.1	45.2	-14.1	
Transport equipment and other manufactures						
29 Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	-15.2	-11.7	-5.6	48.9	-19.9	
30 Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	-0.5	-11.8	-8.6	34.9	2.7	
32 Pembuatan lain Other manufacturing	2.3	2.0	-27.3	37.0	5.3	
33 Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	-2.7	-21.0	4.1	35.3	2.0	
Pembuatan	Jumlah	0.5	2.6	1.1	11.8	-1.4
Manufacturing	Total					

											(%)
2021											2022
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
-0.7	0.8	22.8	-2.3	7.6	-9.6	1.4	13.2	0.4	-2.3	-2.7	-5.8
-0.6	0.2	25.2	-1.4	10.1	-10.2	0.6	12.8	-1.2	-1.9	-3.1	-6.2
0.1	7.0	-4.3	-18.2	-39.2	15.7	36.8	14.9	17.5	-8.7	0.2	6.7
-5.8	16.9	-19.2	-16.5	-69.5	6.8	-30.5	151.9	191.0	-16.1	16.4	-14.9
-3.1	2.1	-4.7	-4.4	-1.9	-2.5	2.1	3.0	12.8	4.1	3.0	-1.1
-2.7	7.8	-2.0	-2.4	8.4	-8.1	-2.3	0.9	8.8	6.7	3.2	-0.1
-2.9	-4.3	-4.6	-6.1	-6.6	6.2	3.1	1.8	14.5	0.6	3.5	-3.1
-5.5	3.7	-16.3	-7.9	-35.3	-5.8	32.6	22.2	26.3	6.2	0.7	1.5
-4.2	9.3	-13.1	-14.4	-15.1	-3.4	30.5	10.4	8.5	8.7	0.004	4.1
-5.0	10.8	-21.9	-32.9	-19.7	-0.4	72.4	12.0	14.4	10.4	4.2	4.2
0.9	15.4	-2.1	-6.4	0.2	-1.7	7.1	1.7	2.3	0.01	-4.6	3.6
-3.9	-2.5	-0.2	-12.0	-26.4	16.6	16.7	3.8	1.2	23.1	1.2	-0.1
-9.3	7.8	-24.3	-2.4	-28.1	-27.4	57.5	33.7	15.4	10.2	-0.8	7.9
-6.0	15.5	5.7	-1.8	2.5	2.5	-5.0	-2.8	0.4	5.7	-1.3	1.1
-10.4	5.3	30.9	2.6	-1.6	11.9	-2.3	-3.3	0.8	12.4	-6.5	4.9
-1.5	6.4	-18.6	-0.1	12.7	-0.4	6.1	-4.0	1.2	3.7	9.8	-1.1
6.1	8.0	-4.5	-3.8	21.3	-9.2	4.4	5.0	-2.5	-1.4	-3.5	5.3
-5.6	33.1	2.1	-6.9	0.5	-5.0	-16.2	-1.5	-0.6	-2.0	-1.7	-3.0
-6.8	2.6	-2.6	-11.9	-24.2	-3.4	26.4	17.7	7.1	5.2	4.0	3.2
-6.0	4.5	-10.6	-7.9	-21.6	-0.6	10.6	7.2	12.7	14.4	4.0	4.5
-6.0	1.4	-3.0	-19.0	-22.0	-6.6	55.6	26.0	0.9	0.2	1.2	0.3
-8.1	2.2	4.2	-9.2	-27.6	-3.2	17.2	17.3	9.8	3.6	6.7	4.8
-1.5	3.8	-3.6	-7.0	13.2	-7.1	11.2	6.7	3.2	-4.0	6.3	-8.0
-0.7	3.5	-7.5	-6.8	13.6	-5.2	9.6	8.1	3.2	-4.8	7.5	-8.6
-10.0	6.0	10.3	-6.8	11.5	-8.3	13.9	2.1	5.2	-1.6	3.0	-5.7
0.5	3.9	19.9	-9.3	11.2	-21.5	23.8	0.02	0.6	-0.1	-1.0	-4.6
-5.3	13.9	0.2	-14.8	-24.3	6.3	6.9	19.2	23.5	7.3	-5.8	-9.1
-3.5	13.3	-1.4	-12.7	-27.6	14.3	4.1	18.5	28.7	7.1	-6.5	-12.4
-10.8	18.6	-0.2	-25.6	-3.1	-10.1	19.1	8.0	17.0	8.6	-5.0	-3.3
-8.8	7.6	17.4	-7.1	-31.9	-18.3	10.5	35.9	5.6	5.3	0.8	4.8
-7.1	22.6	-9.5	-31.7	-2.3	3.6	10.3	30.3	6.1	11.7	-8.1	-1.7
-3.6	7.2	2.9	-6.1	1.3	-3.6	5.5	6.9	3.9	1.2	1.1	-3.4

Jadual 1.2a : Bilangan Pekerja Bergaji Sektor Pembuatan Mengikut Subsektor
Table 1.2a : Number of Paid Employees of Manufacturing Sector by Sub-sector

Subsektor Sub-sector	2020	2021	2020						
			Q1	Q2	Q3	Q4	Q1	Q2	
1. Makanan, minuman dan tembakau Food, beverages and tobacco	290,799	297,901	298,423	297,061	296,725	290,799	298,808	298,494	
10 Pembuatan produk makanan Manufacture of food products	273,958	280,751	278,775	280,115	279,731	273,958	281,281	281,706	
11 Pembuatan minuman Manufacture of beverages	15,681	15,951	18,029	15,968	15,917	15,681	16,115	15,637	
12 Pembuatan produk tembakau Manufacture of tobacco products	1,160	1,199	1,618	979	1,076	1,160	1,412	1,151	
2. Tekstil, pakaian, kulit dan kasut Textiles, wearing apparel, leather and footwear	80,451	82,500	96,070	89,289	82,475	80,451	81,540	78,971	
13 Pembuatan tekstil Manufacture of textiles	26,699	27,738	28,702	27,774	27,185	26,699	27,384	27,027	
14 Pembuatan pakaian Manufacture of wearing apparel	41,919	42,474	55,042	49,680	43,653	41,919	42,142	40,318	
15 Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	11,833	12,288	12,326	11,835	11,637	11,833	12,015	11,626	
3. Produk kayu, perabot, keluaran kertas dan percetakan Wood products, furniture, paper products and printing	284,313	293,945	297,801	282,125	283,806	284,313	286,710	278,262	
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	91,127	93,465	98,116	92,042	92,660	91,127	90,158	88,825	
17 Pembuatan kertas dan produk kertas Manufacture of paper and paper products	54,294	56,213	57,106	52,828	53,264	54,294	55,320	54,235	
18 Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	65,015	67,428	66,434	63,311	63,738	65,015	65,618	63,077	
31 Pembuatan perabot Manufacture of furniture	73,877	76,839	76,145	73,944	74,144	73,877	75,614	72,124	
4. Petroleum, kimia, getah dan plastik Petroleum, chemical, rubber and plastic	417,319	420,316	416,293	411,872	417,253	417,319	423,964	427,330	
19 Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	16,623	17,093	18,013	15,901	16,311	16,623	17,207	16,812	
20 Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	101,429	101,692	109,437	99,239	101,241	101,429	104,975	101,641	
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	23,344	25,092	20,994	23,540	23,751	23,344	23,420	26,265	
22 Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	275,924	276,438	267,849	273,192	275,951	275,924	278,363	282,612	
5. Produk mineral bukan logam, logam asas dan produk logam yang direka Non-metallic mineral products, basic metal and fabricated metal	368,721	373,358	367,548	363,587	364,654	368,721	373,885	362,525	
23 Pembuatan produk galian bukan logam lain Manufacture of other non-metalic mineral products	103,386	105,600	106,336	104,723	103,767	103,386	104,197	102,770	
24 Pembuatan logam asas Manufacture of basic metals	110,682	111,076	111,966	106,670	106,842	110,682	111,732	107,896	
25 Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	154,653	156,682	149,246	152,194	154,045	154,653	157,956	151,859	
6. Produk elektrik dan elektronik Electrical and electronic products	556,233	585,527	566,600	544,528	549,130	556,233	562,623	568,471	
26 Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	365,538	390,477	380,739	359,218	360,614	365,538	370,468	376,557	
27 Pembuatan kelengkapan elektrik Manufacture of electrical equipment	98,712	102,080	96,173	94,524	97,196	98,712	99,658	98,270	
28 Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	91,983	92,969	89,689	90,785	91,320	91,983	92,497	93,644	
7. Kelengkapan pengangkutan dan pembuatan lain Transport equipment and other manufactures	201,360	206,071	214,538	199,681	201,256	201,360	206,014	201,366	
29 Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	82,994	83,798	90,076	82,161	82,131	82,994	83,226	82,711	
30 Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	41,252	41,596	46,205	40,572	41,555	41,252	43,092	40,706	
32 Pembuatan lain Other manufacturing	37,138	39,222	37,485	37,519	37,508	37,138	38,583	37,931	
33 Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	39,976	41,456	40,771	39,427	40,063	39,976	41,113	40,018	
Pembuatan Manufacturing	Jumlah Total	2,199,195	2,259,619	2,257,273	2,188,142	2,195,300	2,199,195	2,233,545	2,215,420

2021		2021											2022	
Q3	Q4	Jan.	Feb.	Mac.	Apr.	Mei.	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
299,079	297,901	298,703	299,069	298,808	298,788	297,815	298,494	299,752	296,629	299,079	295,243	297,067	297,901	302,519
281,854	280,751	281,478	281,573	281,281	281,674	280,814	281,706	283,017	279,573	281,854	278,286	280,110	280,751	285,122
16,029	15,951	15,982	16,067	16,115	15,961	15,845	15,637	15,622	15,995	16,029	15,759	15,759	15,951	16,109
1,196	1,199	1,243	1,429	1,412	1,153	1,157	1,151	1,113	1,061	1,196	1,198	1,199	1,199	1,288
78,901	82,500	81,176	81,641	81,540	81,396	82,235	78,971	78,312	78,955	78,901	79,049	82,088	82,500	82,795
27,293	27,738	27,248	27,266	27,384	27,394	27,701	27,027	26,862	27,102	27,293	27,385	27,528	27,738	27,610
39,623	42,474	41,906	42,172	42,142	41,961	42,454	40,318	40,022	40,221	39,623	39,428	42,252	42,474	42,686
11,985	12,288	12,023	12,203	12,015	12,041	12,081	11,626	11,428	11,632	11,985	12,235	12,308	12,288	12,500
287,981	293,945	287,317	287,103	286,710	285,320	287,642	278,262	278,370	279,123	287,981	290,663	295,057	293,945	296,297
93,126	93,465	92,009	91,216	90,158	90,090	92,622	88,825	90,985	91,465	93,126	92,979	94,107	93,465	93,872
54,814	56,213	55,040	55,359	55,320	54,957	54,800	54,235	53,891	53,894	54,814	55,655	56,618	56,213	56,584
62,499	67,428	65,218	65,262	65,618	63,679	63,844	63,077	62,788	62,872	62,499	65,050	67,089	67,428	67,482
77,542	76,839	75,049	75,267	75,614	76,594	76,376	72,124	70,706	70,892	77,542	76,979	77,243	76,839	78,359
422,651	420,316	421,190	419,834	423,964	430,144	429,402	427,330	425,522	424,489	422,651	423,687	420,700	420,316	421,546
17,148	17,093	16,790	16,792	17,207	16,752	16,759	16,812	17,135	17,138	17,148	17,060	16,982	17,093	17,035
101,298	101,692	102,157	102,029	104,975	101,455	101,702	101,641	101,485	101,314	101,298	102,528	102,000	101,692	102,342
26,547	25,092	23,328	23,477	23,420	26,421	26,220	26,265	26,471	26,721	26,547	26,387	25,048	25,092	24,691
277,659	276,438	278,915	277,536	278,363	285,515	284,720	282,612	280,431	279,317	277,659	277,712	276,671	276,438	277,478
365,349	373,358	372,810	371,377	373,885	370,742	369,426	362,525	361,387	361,721	365,349	367,597	368,520	373,358	375,795
103,829	105,600	105,335	103,672	104,197	104,985	104,777	102,770	103,244	103,340	103,829	103,844	104,457	105,600	106,663
106,907	111,076	111,859	111,442	111,732	109,495	108,920	107,896	106,276	106,455	106,907	108,292	108,518	111,076	111,920
154,614	156,682	155,617	156,264	157,956	156,262	155,729	151,859	151,867	151,926	154,614	155,460	155,545	156,682	157,212
573,632	585,527	558,994	562,597	562,623	564,163	566,004	568,471	565,537	571,538	573,632	579,226	583,641	585,527	585,997
381,683	390,477	366,945	369,641	370,468	372,829	375,037	376,557	376,207	380,326	381,683	386,599	389,519	390,477	389,778
100,361	102,080	99,564	99,154	99,658	98,408	98,437	98,270	97,652	99,525	100,361	101,075	100,953	102,080	102,398
91,587	92,969	92,485	93,802	92,497	92,927	92,530	93,644	91,679	91,687	91,587	91,552	93,169	92,969	93,820
203,813	206,071	205,506	206,794	206,014	204,451	203,935	201,366	201,204	201,260	203,813	205,584	206,501	206,071	209,197
83,032	83,798	82,939	83,478	83,226	83,481	83,275	82,711	82,206	82,074	83,032	83,593	83,602	83,798	84,390
41,603	41,596	42,799	42,887	43,092	41,382	41,279	40,706	40,630	40,587	41,603	41,959	41,992	41,596	42,840
38,175	39,222	38,315	38,679	38,583	38,532	38,391	37,931	37,994	37,964	38,175	38,422	38,985	39,222	39,437
41,003	41,456	41,454	41,750	41,113	41,056	40,989	40,018	40,374	40,635	41,003	41,610	41,922	41,456	42,529
2,231,406	2,259,619	2,225,697	2,228,415	2,233,545	2,235,004	2,236,459	2,215,420	2,210,084	2,213,715	2,231,406	2,241,048	2,253,574	2,259,619	2,274,146

Jadual **1.2b** : Bilangan Pekerja Bergaji Sektor Pembuatan Mengikut Subsektor: Perubahan Peratusan Tahunan
Table : Number of Paid Employees of Manufacturing Sector by Sub-sector: Annual Percentage Change

Subsektor Sub-sector	2020	2021	2021			
			Q1	Q2	Q3	Q4
1. Makanan, minuman dan tembakau Food, beverages and tobacco	-1.3	2.4	0.1	0.5	0.8	2.4
10 Pembuatan produk makanan <i>Manufacture of food products</i>	-0.5	2.5	0.9	0.6	0.8	2.5
11 Pembuatan minuman <i>Manufacture of beverages</i>	-10.7	1.7	-10.6	-2.1	0.7	1.7
12 Pembuatan produk tembakau <i>Manufacture of tobacco products</i>	-27.4	3.3	-12.8	17.6	11.1	3.3
2. Tekstil, pakaian, kulit dan kasut Textiles, wearing apparel, leather and footwear	-14.4	2.5	-15.1	-11.6	-4.3	2.5
13 Pembuatan tekstil <i>Manufacture of textiles</i>	-5.8	3.9	-4.6	-2.7	0.4	3.9
14 Pembuatan pakaian <i>Manufacture of wearing apparel</i>	-21.6	1.3	-23.4	-18.8	-9.2	1.3
15 Pembuatan produk kulit dan barangan berkaitan <i>Manufacture of leather and related products</i>	-2.7	3.8	-2.5	-1.8	3.0	3.8
3. Produk kayu, perabot, keluaran kertas dan percetakan Wood products, furniture, paper products and printing	-4.6	3.4	-3.7	-1.4	1.5	3.4
16 Pembuatan kayu dan produk kayu dan gabus, kecuali perabot; pembuatan bagi artikel jerami dan bahan-bahan anyaman <i>Manufacture of wood and products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials</i>	-7.9	2.6	-8.1	-3.5	0.5	2.6
17 Pembuatan kertas dan produk kertas <i>Manufacture of paper and paper products</i>	-4.8	3.5	-3.1	2.7	2.9	3.5
18 Percetakan dan penerbitan semula media rakaman <i>Printing and reproduction of recorded media</i>	-1.6	3.7	-1.2	-0.4	-1.9	3.7
31 Pembuatan perabot <i>Manufacture of furniture</i>	-2.9	4.0	-0.7	-2.5	4.6	4.0
4. Petroleum, kimia, getah dan plastik Petroleum, chemical, rubber and plastic	0.8	0.7	1.8	3.8	1.3	0.7
19 Pembuatan kok dan produk petroleum bertapis <i>Manufacture of coke and refined petroleum products</i>	-7.2	2.8	-4.5	5.7	5.1	2.8
20 Pembuatan kimia dan produk kimia <i>Manufacture of chemicals and chemical products</i>	-6.2	0.3	-4.1	2.4	0.1	0.3
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani <i>Manufacture of basic pharmaceutical products and pharmaceutical preparations</i>	9.5	7.5	11.6	11.6	11.8	7.5
22 Pembuatan produk getah dan plastik <i>Manufacture of rubber and plastics products</i>	3.4	0.2	3.9	3.4	0.6	0.2
5. Produk mineral bukan logam, logam asas dan produk logam yang direka Non-metallic mineral products, basic metal and fabricated metal products	0.2	1.3	1.7	-0.3	0.2	1.3
23 Pembuatan produk galian bukan logam lain <i>Manufacture of other non-metallic mineral products</i>	-3.4	2.1	-2.0	-1.9	0.1	2.1
24 Pembuatan logam asas <i>Manufacture of basic metals</i>	-0.9	0.4	-0.2	1.1	0.1	0.4
25 Pembuatan produk logam, kecuali mesin dan kelengkapan <i>Manufacture of fabricated metal products, except machinery and equipment</i>	3.6	1.3	5.8	-0.2	0.4	1.3
6. Produk elektrik dan elektronik Electrical and electronic products	-1.2	5.3	-0.7	4.4	4.5	5.3
26 Pembuatan komputer, produk elektronik dan optikal <i>Manufacture of computer, electronics and optical products</i>	-2.8	6.8	-2.7	4.8	5.8	6.8
27 Pembuatan kelengkapan elektrik <i>Manufacture of electrical equipment</i>	3.4	3.4	3.6	4.0	3.3	3.4
28 Pembuatan jentera dan peralatan t.t.t.l. <i>Manufacture of machinery and equipment n.e.c.</i>	0.9	1.1	3.1	3.1	0.3	1.1
7. Kelengkapan pengangkutan dan pembuatan lain Transport equipment and other manufactures	-5.2	2.3	-4.0	0.8	1.3	2.3
29 Pembuatan kenderaan bermotor, treler dan semi treler <i>Manufacture of motor vehicles, trailers and semi-trailers</i>	-6.9	1.0	-7.6	0.7	1.1	1.0
30 Pembuatan kelengkapan pengangkutan lain <i>Manufacture of other transport equipment</i>	-9.2	0.8	-6.7	0.3	0.1	0.8
32 Pembuatan lain <i>Other manufacturing</i>	1.1	5.6	2.9	1.1	1.8	5.6
33 Pembaikan dan pemasangan jentera dan kelengkapan <i>Repair and installation of machinery and equipment</i>	-2.6	3.7	0.8	1.5	2.3	3.7
Pembuatan Manufacturing	-2.0	2.7	-1.1	1.2	1.6	2.7
Jumlah Total	-2.0	2.7	-1.1	1.2	1.6	2.7

												(%)
2021												2022
Jan.	Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
-1.2	-0.8	0.1	1.1	1.2	0.5	1.1	0.1	0.8	1.7	2.3	2.4	1.3
-0.4	-0.1	0.9	1.2	1.3	0.6	1.3	0.2	0.8	1.7	2.4	2.5	1.3
-11.5	-11.4	-10.6	-2.5	-1.5	-2.1	-3.6	-1.0	0.7	1.6	1.9	1.7	0.8
-22.4	-11.5	-12.8	19.4	18.0	17.6	14.7	10.4	11.1	7.5	1.2	3.3	3.6
-16.4	-16.1	-15.1	-8.6	-8.9	-11.6	-8.3	-3.8	-4.3	-2.9	1.8	2.5	2.0
-7.7	-7.6	-4.6	1.0	0.3	-2.7	-1.6	-1.3	0.4	1.3	2.4	3.9	1.3
-24.1	-23.6	-23.4	-16.3	-16.4	-18.8	-13.9	-6.7	-9.2	-7.6	0.7	1.3	1.9
-2.6	-3.1	-2.5	2.1	1.9	-1.8	-1.9	0.8	3.0	4.9	4.5	3.8	4.0
-5.4	-5.2	-3.7	3.8	2.9	-1.4	-1.7	-1.2	1.5	2.7	3.7	3.4	3.1
-9.5	-9.8	-8.1	1.5	1.2	-3.5	-1.3	-0.3	0.5	2.4	3.0	2.6	2.0
-4.7	-4.0	-3.1	5.0	4.5	2.7	2.1	2.2	2.9	3.0	4.9	3.5	2.8
-4.5	-3.8	-1.2	3.9	3.4	-0.4	-2.1	-1.8	-1.9	0.9	2.8	3.7	3.5
-1.3	-1.1	-0.7	5.8	3.6	-2.5	-4.4	-4.1	4.6	4.5	4.7	4.0	4.4
0.3	0.4	1.8	5.3	4.5	3.8	2.5	1.8	1.3	1.6	0.8	0.7	0.1
-7.3	-7.1	-4.5	2.7	5.1	5.7	5.1	5.2	5.1	3.8	3.4	2.8	1.5
-8.1	-7.6	-4.1	2.9	2.7	2.4	0.6	0.1	0.1	1.7	0.4	0.3	0.2
9.7	10.7	11.6	13.2	12.0	11.6	12.4	12.7	11.8	12.1	7.0	7.5	5.8
3.5	3.4	3.9	5.7	4.5	3.4	2.2	1.3	0.6	0.5	0.3	0.2	-0.5
0.3	0.0	1.7	3.4	2.5	-0.3	-0.8	-0.8	0.2	0.8	0.8	1.3	0.8
-3.3	-3.5	-2.0	1.0	0.9	-1.9	-0.5	-0.4	0.1	0.6	0.4	2.1	1.3
-0.8	-1.5	-0.2	2.2	1.6	1.1	0.2	-0.1	0.1	0.5	1.0	0.4	0.1
3.8	3.6	5.8	6.0	4.3	-0.2	-1.8	-1.4	0.4	1.2	1.0	1.3	1.0
-1.7	-1.3	-0.7	4.2	4.7	4.4	3.4	4.3	4.5	4.9	5.0	5.3	4.8
-3.6	-3.0	-2.7	4.0	4.8	4.8	4.3	5.5	5.8	6.4	6.7	6.8	6.2
3.1	2.5	3.6	4.9	5.2	4.0	2.5	3.2	3.3	2.7	2.1	3.4	2.8
1.5	1.6	3.1	4.2	3.5	3.1	0.9	1.0	0.3	1.2	1.5	1.1	1.4
-5.6	-4.7	-4.0	1.3	2.3	0.8	0.1	0.2	1.3	2.6	2.5	2.3	1.8
-8.4	-7.8	-7.6	0.2	2.5	0.7	-0.1	-0.2	1.1	2.0	1.0	1.0	1.8
-8.8	-8.0	-6.7	0.9	0.4	0.3	-2.2	-1.9	0.1	1.6	1.3	0.8	0.1
1.4	2.6	2.9	4.0	2.9	1.1	1.7	1.7	1.8	3.3	4.8	5.6	2.9
-2.4	-0.6	0.8	1.7	3.4	1.5	1.3	1.9	2.3	4.2	4.8	3.7	2.6
-2.4	-2.2	-1.1	3.0	2.8	1.2	0.8	1.0	1.6	2.4	2.6	2.7	2.2

Jadual 1.2c : Bilangan Pekerja Bergaji Sektor Pembuatan Mengikut Subsektor: Perubahan Peratusan Bulanan/Suku Tahunan
Table 1.2c : Number of Paid Employees of Manufacturing Sector by Sub-sector: Monthly/Quarterly Percentage Change

Subsektor Sub-sector	2021					
	Q1	Q2	Q3	Q4	Jan.	
1. Makanan, minuman dan tembakau	2.8	-0.1	0.2	-0.4	2.7	
Food, beverages and tobacco						
10 Pembuatan produk makanan Manufacture of food products	2.7	0.2	0.1	-0.4	2.7	
11 Pembuatan minuman Manufacture of beverages	2.8	-3.0	2.5	-0.5	1.9	
12 Pembuatan produk tembakau Manufacture of tobacco products	21.7	-18.5	3.9	0.2	7.2	
2. Tekstil, pakaian, kulit dan kasut	1.4	-3.2	-0.1	4.6	0.9	
Textiles, wearing apparel, leather and footwear						
13 Pembuatan tekstil Manufacture of textiles	2.6	-1.3	1.0	1.6	2.1	
14 Pembuatan pakaian Manufacture of wearing apparel	0.5	-4.3	-1.7	7.2	-0.03	
15 Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	1.5	-3.2	3.1	2.5	1.6	
3. Produk kayu, perabot, keluaran kertas dan percetakan	0.8	-2.9	3.5	2.1	1.1	
Wood products, furniture, paper products and printing						
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	-1.1	-1.5	4.8	0.4	1.0	
17 Pembuatan kertas dan produk kertas Manufacture of paper and paper products	1.9	-2.0	1.1	2.6	1.4	
18 Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	0.9	-3.9	-0.9	7.9	0.3	
31 Pembuatan perabot Manufacture of furniture	2.4	-4.6	7.5	-0.9	1.6	
4. Petroleum, kimia, getah dan plastik	1.6	0.8	-1.1	-0.6	0.9	
Petroleum, chemical, rubber and plastic						
19 Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	3.5	-2.3	2.0	-0.3	1.0	
20 Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	3.5	-3.2	-0.3	0.4	0.7	
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	0.3	12.1	1.1	-5.5	-0.1	
22 Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	0.9	1.5	-1.8	-0.4	1.1	
5. Produk mineral bukan logam, logam asas dan produk logam yang direka	1.4	-3.0	0.8	2.2	1.1	
Non-metallic mineral products, basic metal and fabricated metal products						
23 Pembuatan produk galian bukan logam lain Manufacture of other non-metalic mineral products	0.8	-1.4	1.0	1.7	1.9	
24 Pembuatan logam asas Manufacture of basic metals	0.9	-3.4	-0.9	3.9	1.1	
25 Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	2.1	-3.9	1.8	1.3	0.6	
6. Produk elektrik dan elektronik	1.1	1.0	0.9	2.1	0.5	
Electrical and electronic products						
26 Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	1.3	1.6	1.4	2.3	0.4	
27 Pembuatan kelengkapan elektrik Manufacture of electrical equipment	1.0	-1.4	2.1	1.7	0.9	
28 Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	0.6	1.2	-2.2	1.5	0.5	
7. Kelengkapan pengangkutan dan pembuatan lain	2.3	-2.3	1.2	1.1	2.1	
Transport equipment and other manufactures						
29 Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	0.3	-0.6	0.4	0.9	-0.1	
30 Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	4.5	-5.5	2.2	-0.02	3.7	
32 Pembuatan lain Other manufacturing	3.9	-1.7	0.6	2.7	3.2	
33 Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	2.8	-2.7	2.5	1.1	3.7	
Pembuatan	Jumlah	1.6	-0.8	0.7	1.3	1.2
Manufacturing	Total					

(%)											
2021											2022
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
0.1	-0.1	-0.01	-0.3	0.2	0.4	-1.0	0.8	-1.3	0.6	0.3	1.6
0.03	-0.1	0.1	-0.3	0.3	0.5	-1.2	0.8	-1.3	0.7	0.2	1.6
0.5	0.3	-1.0	-0.7	-1.3	-0.1	2.4	0.2	-1.7	-0.004	1.2	1.0
14.9	-1.2	-18.4	0.3	-0.5	-3.3	-4.7	12.7	0.2	0.1	-0.03	7.5
0.6	-0.1	-0.2	1.0	-4.0	-0.8	0.8	-0.1	0.2	3.8	0.5	0.4
0.1	0.4	0.04	1.1	-2.4	-0.6	0.9	0.7	0.3	0.5	0.8	-0.5
0.6	-0.1	-0.4	1.2	-5.0	-0.7	0.5	-1.5	-0.5	7.2	0.5	0.5
1.5	-1.5	0.2	0.3	-3.8	-1.7	1.8	3.0	2.1	0.6	-0.2	1.7
-0.1	-0.1	-0.5	0.8	-3.3	0.04	0.3	3.2	0.9	1.5	-0.4	0.8
-0.9	-1.2	-0.1	2.8	-4.1	2.4	0.5	1.8	-0.2	1.2	-0.7	0.4
0.6	-0.1	-0.7	-0.3	-1.0	-0.6	0.01	1.7	1.5	1.7	-0.7	0.7
0.1	0.5	-3.0	0.3	-1.2	-0.5	0.1	-0.6	4.1	3.1	0.5	0.1
0.3	0.5	1.3	-0.3	-5.6	-2.0	0.3	9.4	-0.7	0.3	-0.5	2.0
-0.3	1.0	1.5	-0.2	-0.5	-0.4	-0.2	-0.4	0.2	-0.7	-0.1	0.3
0.02	2.5	-2.6	0.04	0.3	1.9	0.02	0.1	-0.5	-0.5	0.7	-0.3
-0.1	2.9	-3.4	0.2	-0.1	-0.2	-0.2	-0.02	1.2	-0.5	-0.3	0.6
0.6	-0.2	12.8	-0.8	0.2	0.8	0.9	-0.7	-0.6	-5.1	0.2	-1.6
-0.5	0.3	2.6	-0.3	-0.7	-0.8	-0.4	-0.6	0.02	-0.4	-0.1	0.4
-0.4	0.7	-0.8	-0.4	-1.9	-0.3	0.1	1.0	0.6	0.3	1.3	0.7
-1.6	0.5	0.8	-0.2	-1.9	0.5	0.1	0.5	0.01	0.6	1.1	1.0
-0.4	0.3	-2.0	-0.5	-0.9	-1.5	0.2	0.4	1.3	0.2	2.4	0.8
0.4	1.1	-1.1	-0.3	-2.5	0.01	0.04	1.8	0.5	0.1	0.7	0.3
0.6	0.0	0.3	0.3	0.4	-0.5	1.1	0.4	1.0	0.8	0.3	0.1
0.7	0.2	0.6	0.6	0.4	-0.1	1.1	0.4	1.3	0.8	0.2	-0.2
-0.4	0.5	-1.3	0.03	-0.2	-0.6	1.9	0.8	0.7	-0.1	1.1	0.3
1.4	-1.4	0.5	-0.4	1.2	-2.1	0.01	-0.1	-0.04	1.8	-0.2	0.9
0.6	-0.4	-0.8	-0.3	-1.3	-0.1	0.03	1.3	0.9	0.4	-0.2	1.5
0.7	-0.3	0.3	-0.2	-0.7	-0.6	-0.2	1.2	0.7	0.01	0.2	0.7
0.2	0.5	-4.0	-0.2	-1.4	-0.2	-0.1	2.5	0.9	0.1	-0.9	3.0
0.9	-0.2	-0.1	-0.4	-1.2	0.2	-0.1	0.6	0.6	1.5	0.6	0.5
0.7	-1.5	-0.1	-0.2	-2.4	0.9	0.6	0.9	1.5	0.8	-1.1	2.6
0.1	0.2	0.1	0.1	-0.9	-0.2	0.2	0.8	0.4	0.6	0.3	0.6

Jadual **1.3a** : Gaji dan Upah yang Dibayar Sektor Pembuatan Mengikut Subsektor
 Table **1.3a** : Salaries and Wages Paid of Manufacturing Sector by Sub-sector

Subsektor Sub-sector		2020	2021	2020						
				Q1	Q2	Q3	Q4	Q1	Q2	
1. Makanan, minuman dan tembakau		10,125	10,343	2,616	2,500	2,487	2,521	2,559	2,564	
Food, beverages and tobacco										
10	Pembuatan produk makanan Manufacture of food products	9,525	9,773	2,439	2,367	2,350	2,369	2,411	2,429	
11	Pembuatan minuman Manufacture of beverages	537	508	157	121	123	135	131	121	
12	Pembuatan produk tembakau Manufacture of tobacco products	63	62	21	12	14	17	17	14	
2. Tekstil, pakaian, kulit dan kasut		1,996	1,827	567	475	475	479	466	443	
Textiles, wearing apparel, leather and footwear										
13	Pembuatan tekstil Manufacture of textiles	661	657	172	156	166	166	163	162	
14	Pembuatan pakaian Manufacture of wearing apparel	1,023	862	305	249	235	234	223	207	
15	Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	312	308	90	69	74	79	79	75	
3. Produk kayu, perabot, keluaran kertas dan percetakan		8,965	9,057	2,353	2,147	2,228	2,237	2,286	2,215	
Wood products, furniture, paper products and printing										
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	2,424	2,461	643	571	609	601	605	586	
17	Pembuatan kertas dan produk kertas Manufacture of paper and paper products	2,003	2,018	530	487	491	496	505	502	
18	Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	2,170	2,153	583	537	521	529	559	549	
31	Pembuatan perabot Manufacture of furniture	2,368	2,425	597	553	607	612	617	578	
4. Petroleum, kimia, getah dan plastik		19,409	20,344	4,835	4,680	4,888	5,007	5,017	5,121	
Petroleum, chemical, rubber and plastic										
19	Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	2,282	2,326	637	491	537	617	617	522	
20	Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	5,668	5,677	1,599	1,314	1,361	1,394	1,462	1,388	
21	Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	631	717	144	157	161	169	165	180	
22	Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	10,828	11,623	2,455	2,718	2,829	2,827	2,772	3,030	
5. Produk mineral bukan logam, logam asas dan produk logam yang direka		13,579	13,860	3,535	3,246	3,342	3,455	3,525	3,393	
Non-metallic mineral products, basic metal and fabricated metal products										
23	Pembuatan produk galian bukan logam lain Manufacture of other non-metalic mineral products	4,270	4,340	1,117	1,036	1,044	1,073	1,079	1,088	
24	Pembuatan logam asas Manufacture of basic metals	3,989	4,048	1,084	947	960	998	1,043	986	
25	Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	5,320	5,473	1,334	1,264	1,339	1,384	1,403	1,319	
6. Produk elektrik dan elektronik		26,201	27,409	6,941	6,229	6,341	6,690	6,957	6,691	
Electrical and electronic products										
26	Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	18,284	19,284	4,933	4,363	4,369	4,618	4,871	4,742	
27	Pembuatan kelengkapan elektrik Manufacture of electrical equipment	3,750	3,832	945	884	942	980	976	910	
28	Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	4,167	4,292	1,063	982	1,029	1,092	1,110	1,039	
7. Kelengkapan pengangkutan dan pembuatan lain		6,920	6,992	1,880	1,630	1,659	1,750	1,776	1,734	
Transport equipment and other manufactures										
29	Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	3,418	3,411	938	798	815	867	865	858	
30	Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	1,101	1,095	317	256	261	267	288	277	
32	Pembuatan lain Other manufacturing	1,161	1,226	290	280	290	300	302	291	
33	Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	1,240	1,260	335	296	293	316	322	309	
Pembuatan Manufacturing		Jumlah Total	87,194	89,830	22,728	20,906	21,420	22,139	22,584	22,162

(RM Juta/Million)

2021		2021											2022	
Q3	Q4	Jan.	Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
2,555	2,665	853	848	858	863	858	843	857	828	871	869	872	923	903
2,422	2,512	803	798	810	816	813	800	814	784	823	822	822	868	853
120	136	44	44	42	43	40	38	38	39	43	43	45	48	44
14	17	5	6	6	5	5	5	5	4	5	5	5	7	5
437	481	160	153	153	152	153	138	143	146	147	150	160	171	165
161	171	55	54	54	54	55	53	53	54	54	55	57	59	56
204	229	78	72	72	72	73	61	68	68	68	68	76	85	81
72	81	27	26	26	26	25	24	22	24	25	27	27	28	28
2,204	2,353	770	757	758	746	746	722	718	725	761	767	777	809	810
616	654	205	201	199	198	197	191	199	202	215	216	217	222	220
495	517	167	167	171	170	166	166	162	163	170	171	173	173	173
507	538	191	182	186	183	187	179	172	172	162	167	175	196	194
586	643	208	207	201	194	197	187	185	187	214	213	213	218	222
5,104	5,101	1,656	1,636	1,724	1,670	1,698	1,753	1,692	1,701	1,711	1,693	1,653	1,755	1,675
565	621	199	193	225	169	168	185	181	180	205	204	194	223	199
1,398	1,429	479	483	500	465	450	474	467	462	469	463	462	505	488
183	189	55	55	55	62	59	59	60	62	61	62	59	68	61
2,958	2,863	923	905	944	974	1,022	1,035	985	997	976	965	939	959	927
3,334	3,608	1,188	1,162	1,174	1,142	1,149	1,101	1,088	1,087	1,159	1,169	1,181	1,258	1,237
1,055	1,118	361	353	365	365	371	351	349	346	360	364	370	384	377
959	1,059	350	342	352	333	331	322	310	313	336	340	341	378	370
1,320	1,431	477	468	458	444	447	428	429	429	462	466	470	495	490
6,606	7,155	2,342	2,359	2,255	2,211	2,233	2,247	2,154	2,196	2,256	2,288	2,295	2,572	2,473
4,623	5,049	1,625	1,653	1,593	1,582	1,572	1,588	1,505	1,532	1,586	1,610	1,614	1,825	1,745
952	994	339	327	310	280	312	318	313	319	320	322	320	352	342
1,032	1,112	379	379	352	349	349	340	336	345	350	355	361	395	386
1,664	1,817	588	597	592	600	578	556	542	548	573	587	597	633	603
803	885	287	294	283	298	285	275	260	264	279	284	288	314	289
259	271	92	94	101	96	94	87	86	85	89	90	91	90	92
303	330	101	102	99	97	96	98	98	101	104	105	106	119	110
298	330	107	107	108	109	103	97	99	99	101	107	112	111	111
21,904	23,180	7,558	7,512	7,514	7,386	7,416	7,360	7,195	7,231	7,479	7,523	7,536	8,122	7,865

Jadual 1.3b : Gaji dan Upah yang Dibayar Sektor Pembuatan Mengikut Subsektor: Perubahan Peratusan Tahunan
Table 1.3b : Salaries and Wages Paid of Manufacturing Sector by Sub-sector: Annual Percentage Change

Subsektor Sub-sector	2020	2021	2021				
			Q1	Q2	Q3	Q4	
1. Makanan, minuman dan tembakau	1.2	2.2	-2.2	2.6	2.7	5.7	
Food, beverages and tobacco							
10 Pembuatan produk makanan Manufacture of food products	2.3	2.6	-1.1	2.6	3.0	6.0	
11 Pembuatan minuman Manufacture of beverages	-12.5	-5.4	-16.6	-0.05	-2.8	0.5	
12 Pembuatan produk tembakau Manufacture of tobacco products	-27.6	-2.4	-18.7	16.7	1.7	0.4	
2. Tekstil, pakaian, kulit dan kasut	-12.0	-8.5	-17.9	-6.6	-8.0	0.4	
Textiles, wearing apparel, leather and footwear							
13 Pembuatan tekstil Manufacture of textiles	-2.9	-0.6	-4.9	3.3	-3.4	2.9	
14 Pembuatan pakaian Manufacture of wearing apparel	-17.0	-15.7	-26.8	-17.0	-13.1	-2.3	
15 Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	-12.1	-1.5	-12.3	8.2	-2.5	3.2	
3. Produk kayu, perabot, keluaran kertas dan percetakan	-2.7	1.0	-2.8	3.2	-1.1	5.1	
Wood products, furniture, paper products and printing							
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	-3.7	1.5	-6.0	2.6	1.2	8.8	
17 Pembuatan kertas dan produk kertas Manufacture of paper and paper products	-5.8	0.7	-4.7	3.1	0.7	4.3	
18 Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	-2.8	-0.8	-4.1	2.3	-2.8	1.8	
31 Pembuatan perabot Manufacture of furniture	1.2	2.4	3.4	4.6	-3.3	5.2	
4. Petroleum, kimia, getah dan plastik	1.3	4.8	3.8	9.4	4.4	1.9	
Petroleum, chemical, rubber and plastic							
19 Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	-4.4	1.9	-3.1	6.4	5.2	0.6	
20 Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	-8.4	0.2	-8.5	5.6	2.7	2.5	
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	9.5	13.7	14.6	14.8	13.9	11.9	
22 Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	8.2	7.3	12.9	11.5	4.6	1.3	
5. Produk mineral bukan logam, logam asas dan produk logam yang direka	-1.8	2.1	-0.3	4.5	-0.2	4.4	
Non-metallic mineral products, basic metal and fabricated metal products							
23 Pembuatan produk galian bukan logam lain Manufacture of other non-metallic mineral products	-1.6	1.6	-3.5	5.1	1.1	4.1	
24 Pembuatan logam asas Manufacture of basic metals	-7.6	1.5	-3.8	4.2	-0.1	6.2	
25 Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	2.7	2.9	5.2	4.3	-1.4	3.4	
6. Produk elektrik dan elektronik	-0.2	4.6	0.2	7.4	4.2	6.9	
Electrical and electronic products							
26 Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	-0.6	5.5	-1.3	8.7	5.8	9.3	
27 Pembuatan kelengkapan elektrik Manufacture of electrical equipment	2.9	2.2	3.3	3.0	1.1	1.5	
28 Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	-1.2	3.0	4.4	5.8	0.2	1.8	
7. Kelengkapan pengangkutan dan pembuatan lain	-7.4	1.0	-5.5	6.4	0.3	3.9	
Transport equipment and other manufactures							
29 Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	-9.0	-0.2	-7.8	7.5	-1.5	2.1	
30 Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	-12.7	-0.5	-9.1	7.9	-0.5	1.6	
32 Pembuatan lain Other manufacturing	3.9	5.6	3.9	3.7	4.6	9.9	
33 Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	-7.2	1.6	-3.9	4.4	1.7	4.7	
Pembuatan	Jumlah Total	-1.1	3.0	-0.6	6.0	2.3	4.7

												(%)
2021												2022
Jan.	Feb.	Mac.	Apr.	Mei.	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
-3.6	-3.3	0.5	2.5	2.6	2.5	4.0	0.3	3.9	5.4	5.8	5.9	5.9
-2.6	-2.3	1.5	2.6	2.7	2.6	4.5	0.5	4.1	5.7	6.1	6.3	6.2
-18.1	-17.6	-14.0	-0.1	0.2	-0.2	-5.6	-3.2	0.4	0.6	0.8	0.1	-0.04
-20.5	-17.1	-18.7	17.9	17.6	14.5	2.3	1.2	1.5	0.2	0.1	0.9	1.3
-18.0	-17.9	-17.7	0.5	-4.2	-15.5	-11.2	-6.5	-6.4	-4.6	2.6	2.9	2.8
-6.8	-4.2	-3.7	10.5	4.9	-4.4	-4.3	-3.4	-2.4	0.5	3.8	4.4	2.4
-25.9	-27.3	-27.2	-9.9	-14.8	-26.1	-16.3	-10.8	-11.9	-11.0	1.5	2.1	3.1
-11.9	-12.8	-12.2	16.0	15.2	-5.1	-9.9	0.2	2.1	3.7	3.5	2.5	2.8
-3.2	-3.2	-2.1	8.0	3.8	-2.1	-3.7	-2.2	2.6	4.0	6.0	5.4	5.1
-5.6	-7.6	-4.6	9.2	3.4	-4.1	-2.3	0.9	4.9	7.4	9.9	9.0	7.6
-5.0	-4.8	-4.3	5.5	3.1	0.8	-0.8	0.5	2.3	3.2	5.5	4.2	4.0
-5.5	-3.6	-3.2	4.0	3.2	-0.4	-2.9	-2.5	-2.9	0.4	2.2	2.6	1.6
3.2	3.4	3.6	13.4	5.5	-3.9	-8.2	-7.1	5.2	4.4	5.7	5.4	6.7
3.0	3.3	4.9	11.4	9.1	8.0	5.8	4.7	2.9	2.9	1.5	1.3	1.1
-4.9	-2.4	-2.1	3.9	5.8	9.5	5.3	5.4	4.9	1.0	0.6	0.4	0.2
-9.8	-8.7	-7.1	7.8	5.1	4.1	3.5	2.9	1.7	3.8	2.0	1.8	1.8
13.9	14.6	15.3	15.7	15.3	13.3	13.4	14.6	13.6	15.1	9.9	10.8	10.5
12.7	11.9	14.1	14.3	11.2	9.3	6.5	4.8	2.5	2.3	1.0	0.6	0.4
-0.3	-2.1	1.6	9.4	5.0	-0.5	-2.4	-2.2	3.9	4.7	3.9	4.7	4.1
-3.8	-5.3	-1.2	9.8	6.5	-0.7	-0.5	0.1	3.8	4.6	2.4	5.4	4.6
-5.2	-5.8	-0.2	8.9	3.6	0.2	-2.5	-2.5	4.6	5.6	6.9	6.1	5.7
6.6	3.5	5.5	9.3	4.8	-0.8	-3.9	-3.8	3.5	4.1	3.0	3.1	2.6
-0.6	0.3	1.0	8.0	7.7	6.5	2.7	4.5	5.3	5.7	7.3	7.7	5.6
-2.7	-0.8	-0.2	8.5	8.6	9.0	4.4	5.9	7.1	7.7	9.6	10.5	7.4
5.6	1.6	2.8	3.4	3.6	2.0	0.1	1.2	2.0	1.6	1.0	1.8	0.8
3.9	4.0	5.2	10.0	7.6	0.03	-1.9	1.7	0.8	1.1	3.2	1.2	2.0
-7.0	-6.6	-2.9	9.1	9.2	0.9	-1.0	-0.7	2.4	4.5	4.4	2.7	2.5
-8.7	-8.3	-6.5	10.4	11.6	0.9	-2.4	-2.9	0.6	3.5	2.8	0.3	0.5
-12.7	-12.0	-2.5	13.2	9.7	0.8	-1.7	-1.4	1.5	3.3	1.2	0.2	0.002
3.6	3.7	4.3	5.9	4.4	1.0	2.2	4.4	7.2	9.4	9.8	10.5	9.4
-6.2	-5.5	0.2	5.0	7.1	1.1	0.4	1.1	3.7	3.7	6.5	3.9	3.6
-1.4	-1.3	0.8	8.2	6.4	3.5	1.5	1.7	3.6	4.4	4.8	4.9	4.1

Jadual **1.3c** : Gaji dan Upah yang Dibayar Sektor Pembuatan Mengikut Subsektor: Perubahan Peratusan Bulanan/Suku Tahunan
 Table **1.3c** : Salaries and Wages Paid of Manufacturing Sector by Sub-sector: Monthly/Quarterly Percentage Change

Subsektor Sub-sector	2021					
	Q1	Q2	Q3	Q4	Jan.	
1. Makanan, minuman dan tembakau	1.5	0.2	-0.3	4.3	-2.1	
Food, beverages and tobacco						
10 Pembuatan produk makanan Manufacture of food products	1.8	0.7	-0.3	3.7	-1.7	
11 Pembuatan minuman Manufacture of beverages	-3.0	-7.3	-1.1	12.9	-7.0	
12 Pembuatan produk tembakau Manufacture of tobacco products	-0.1	-15.7	-1.5	21.1	-16.7	
2. Tekstil, pakaian, kulit dan kasut	-2.7	-4.9	-1.5	10.2	-3.3	
Textiles, wearing apparel, leather and footwear						
13 Pembuatan tekstil Manufacture of textiles	-1.6	-1.1	-0.5	6.2	-2.1	
14 Pembuatan pakaian Manufacture of wearing apparel	-4.6	-7.5	-1.3	12.1	-5.3	
15 Pembuatan produk kulit dan barangan berkaitan Manufacture of leather and related products	0.6	-5.4	-4.4	13.5	0.5	
3. Produk kayu, perabot, keluaran kertas dan percetakan	2.2	-3.1	-0.5	6.8	0.4	
Wood products, furniture, paper products and printing						
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	0.6	-3.1	5.2	6.1	0.7	
17 Pembuatan kertas dan produk kertas Manufacture of paper and paper products	1.8	-0.6	-1.4	4.6	0.2	
18 Percetakan dan penerbitan semula media rakaman Printing and reproduction of recorded media	5.8	-1.9	-7.7	6.2	-0.3	
31 Pembuatan perabot Manufacture of furniture	0.9	-6.3	1.4	9.7	0.9	
4. Petroleum, kimia, getah dan plastik	0.2	2.1	-0.3	-0.1	-4.4	
Petroleum, chemical, rubber and plastic						
19 Pembuatan kok dan produk petroleum bertapis Manufacture of coke and refined petroleum products	-0.03	-15.4	8.2	9.9	-10.6	
20 Pembuatan kimia dan produk kimia Manufacture of chemicals and chemical products	4.9	-5.0	0.7	2.2	-3.4	
21 Pembuatan produk farmaseutikal asas, kimia perubatan dan botani Manufacture of basic pharmaceutical products and pharmaceutical preparations	-1.9	8.9	1.7	3.0	-10.1	
22 Pembuatan produk getah dan plastik Manufacture of rubber and plastics products	-1.9	9.3	-2.4	-3.2	-3.1	
5. Produk mineral bukan logam, logam asas dan produk logam yang direka	2.0	-3.7	-1.7	8.2	-1.2	
Non-metallic mineral products, basic metal and fabricated metal products						
23 Pembuatan produk galian bukan logam lain Manufacture of other non-metallic mineral products	0.5	0.9	-3.0	5.9	-1.1	
24 Pembuatan logam asas Manufacture of basic metals	4.6	-5.5	-2.7	10.5	-1.9	
25 Pembuatan produk logam, kecuali mesin dan kelengkapan Manufacture of fabricated metal products, except machinery and equipment	1.3	-6.0	0.1	8.4	-0.7	
6. Produk elektrik dan elektronik	4.0	-3.8	-1.3	8.3	-1.9	
Electrical and electronic products						
26 Pembuatan komputer, produk elektronik dan optikal Manufacture of computer, electronics and optical products	5.5	-2.6	-2.5	9.2	-1.6	
27 Pembuatan kelengkapan elektrik Manufacture of electrical equipment	-0.4	-6.8	4.6	4.4	-2.0	
28 Pembuatan jentera dan peralatan t.t.t.l. Manufacture of machinery and equipment n.e.c.	1.6	-6.4	-0.7	7.8	-3.0	
7. Kelengkapan pengangkutan dan pembuatan lain	1.5	-2.4	-4.1	9.2	-4.7	
Transport equipment and other manufactures						
29 Pembuatan kenderaan bermotor, treler dan semi treler Manufacture of motor vehicles, trailers and semi-trailers	-0.2	-0.8	-6.4	10.3	-8.1	
30 Pembuatan kelengkapan pengangkutan lain Manufacture of other transport equipment	7.8	-3.9	-6.2	4.6	2.7	
32 Pembuatan lain Other manufacturing	0.4	-3.6	4.2	8.9	-6.2	
33 Pembaikan dan pemasangan jentera dan kelengkapan Repair and installation of machinery and equipment	2.0	-4.0	-3.5	10.8	0.5	
Pembuatan	Jumlah Total	2.0	-1.9	-1.2	5.8	-2.4

											(%)
2021											2022
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.
-0.6	1.2	0.7	-0.6	-1.8	1.7	-3.3	5.1	-0.1	0.3	5.8	-2.2
-0.6	1.5	0.7	-0.3	-1.7	1.8	-3.7	4.9	-0.1	0.1	5.6	-1.8
-0.9	-4.0	1.4	-6.6	-4.1	-1.0	3.3	8.9	-0.3	5.6	6.5	-7.2
7.1	-4.4	-14.0	0.3	-4.2	-0.1	-3.4	11.1	4.4	0.4	27.3	-16.4
-4.7	-0.1	-0.4	0.8	-10.2	4.1	1.5	1.2	1.6	6.9	6.5	-3.4
-1.2	-0.2	-0.9	2.6	-4.0	0.7	0.6	0.9	2.5	2.6	3.1	-3.9
-7.7	0.02	0.04	0.5	-15.8	11.2	-0.4	0.2	-0.4	12.7	10.9	-4.4
-2.9	-0.3	-0.4	-2.2	-7.3	-6.5	9.8	5.1	5.2	1.3	1.5	0.9
-1.7	0.1	-1.6	0.01	-3.2	-0.6	1.0	5.0	0.7	1.3	4.1	0.1
-2.0	-0.6	-0.7	-0.6	-3.3	4.5	1.3	6.5	0.3	0.4	2.3	-0.6
0.2	2.6	-0.8	-2.5	0.0	-2.5	1.1	3.8	0.9	1.1	0.2	-0.05
-4.4	2.3	-1.6	1.8	-4.3	-3.9	0.4	-5.8	3.0	4.4	12.4	-1.2
-0.5	-3.1	-3.3	1.1	-4.7	-1.2	1.0	14.4	-0.7	0.1	2.4	2.1
-1.2	5.4	-3.1	1.7	3.2	-3.5	0.5	0.6	-1.0	-2.4	6.1	-4.6
-2.9	16.6	-24.9	-0.8	10.5	-2.6	-0.6	14.3	-0.6	-4.8	15.1	-10.8
0.9	3.5	-6.9	-3.4	5.3	-1.4	-1.1	1.5	-1.4	-0.2	9.4	-3.4
0.2	-0.4	12.6	-4.7	0.2	1.5	3.4	-1.7	1.7	-5.6	15.9	-10.3
-2.0	4.4	3.1	5.0	1.3	-4.8	1.2	-2.1	-1.2	-2.7	2.1	-3.3
-2.1	1.0	-2.7	0.6	-4.2	-1.2	-0.04	6.6	0.9	1.0	6.6	-1.7
-2.1	3.3	0.2	1.7	-5.4	-0.7	-0.8	4.1	0.9	1.7	4.0	-1.9
-2.2	2.9	-5.3	-0.6	-2.9	-3.7	1.0	7.6	1.0	0.5	10.8	-2.2
-2.0	-2.0	-3.1	0.6	-4.2	0.3	-0.2	7.9	0.8	0.8	5.4	-1.2
0.7	-4.4	-1.9	1.0	0.6	-4.1	1.9	2.7	1.4	0.3	12.1	-3.9
1.7	-3.6	-0.7	-0.6	1.0	-5.3	1.8	3.5	1.5	0.2	13.1	-4.3
-3.5	-5.4	-9.6	11.4	2.0	-1.6	1.8	0.4	0.7	-0.7	10.2	-3.0
-0.01	-6.9	-0.8	-0.1	-2.5	-1.2	2.5	1.6	1.4	1.7	9.4	-2.3
1.5	-0.9	1.5	-3.8	-3.6	-2.6	1.1	4.6	2.4	1.8	6.1	-4.9
2.4	-3.8	5.2	-4.5	-3.4	-5.6	1.8	5.8	1.6	1.4	8.9	-7.9
2.3	7.1	-4.9	-2.6	-7.4	-1.2	-1.3	5.3	1.1	1.0	-1.1	2.5
0.7	-2.3	-2.5	-0.6	1.8	0.4	2.4	3.5	1.1	0.9	11.8	-7.1
-0.7	1.4	1.1	-5.7	-6.0	1.9	0.2	1.7	6.8	4.2	-0.9	0.2
-0.6	0.03	-1.7	0.4	-0.7	-2.2	0.5	3.4	0.6	0.2	7.8	-3.2

Jadual **1.4a** : Nilai Jualan Sektor Pembuatan Mengikut Kumpulan
Table : Sales Value of Manufacturing Sector by Group

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Jan.
101	Pemprosesan dan pengawetan daging	7,249	7,877	1,415	2,020	1,933	1,882	1,849	1,861	2,039	2,128	651
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	6,230	6,281	1,607	1,322	1,663	1,637	1,678	1,613	1,445	1,544	578
	10201 Pengetinan ikan, krustasea dan moluska											
	&											
	10202 Pemprosesan dan pengawetan ikan, krustasea dan moluska	5,934	5,970	1,526	1,262	1,580	1,567	1,597	1,542	1,373	1,459	550
	Industri lain	295	311	81	60	83	71	81	71	73	85	28
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	1,799	1,779	402	410	508	479	521	459	379	419	177
	10303 Pengetinan nanas											
	&											
	10304 Pembuatan jem, marmalad dan sajian jeli	347	364	114	78	74	82	118	86	78	82	34
	Industri lain	1,452	1,415	288	332	434	398	403	373	301	338	142
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	147,991	168,492	27,246	40,100	40,568	40,076	30,600	45,231	45,276	47,386	10,455
	10404 Pembuatan minyak sayuran mentah dan bertapis											
	&											
	10406 Pembuatan sebatian lemak masakan	13,747	17,088	3,340	3,110	3,472	3,825	3,785	4,367	4,748	4,188	1,244
	10405 Pembuatan minyak kelapa	1,220	1,143	311	249	305	355	345	244	232	321	120
	Industri lain	133,024	150,261	23,595	36,740	36,792	35,896	26,470	40,620	40,295	42,876	9,091
105	Pembuatan produk tenusu	10,056	10,805	2,491	2,387	2,636	2,542	2,585	2,700	2,689	2,831	864
	10502 Pembuatan susu pekat, tepung dan sejat	9,330	10,000	2,315	2,226	2,450	2,338	2,371	2,499	2,498	2,632	793
	Industri lain	726	805	176	160	186	204	214	201	190	199	70
106	Pembuatan produk bijian, kanji dan produk berkanji	7,342	8,695	1,947	1,838	1,776	1,782	2,021	2,227	2,134	2,313	648
	10611 Pengilangan beras	3,207	3,920	879	870	745	714	787	1,049	1,002	1,082	250
	10613 Pengilangan tepung	3,811	4,453	981	887	954	989	1,150	1,104	1,056	1,144	371
	Industri lain	324	322	87	81	77	79	84	75	76	87	27
107	Pembuatan produk makanan lain	47,410	53,256	11,015	11,950	12,182	12,262	13,437	13,193	12,950	13,676	4,327
	10711 Pembuatan biskut dan cookies	2,140	2,234	494	486	549	612	567	524	467	676	189
	10712 Pembuatan roti, kek dan produk bakeri lain	11,633	12,375	2,360	3,256	3,228	2,788	3,204	3,193	3,123	2,854	981
	10713 Pembuatan produk snek	2,385	2,342	608	604	584	589	586	575	526	656	195
	10721 Pembuatan gula	4,585	5,502	1,271	1,043	1,069	1,203	1,385	1,300	1,333	1,484	423
	10731 Pembuatan produk koko	3,697	3,401	943	923	890	941	926	831	792	853	317
	10732 Pembuatan coklat dan produk coklat											
	&											
	10733 Pembuatan konfeksi gula	10,041	12,588	2,090	2,496	2,632	2,823	3,111	3,214	3,081	3,182	1,026
	10793 Pembuatan sos dan bahan perasa	1,901	2,187	503	418	480	500	542	529	494	622	188
	10799 Pembuatan produk makanan lain t.t.t.l.	4,009	4,801	966	1,045	967	1,031	1,140	1,129	1,236	1,296	363
	Industri lain	7,018	7,825	1,780	1,679	1,784	1,775	1,976	1,896	1,898	2,054	646
108/ 10800	Pembuatan makanan haiwan tersedia	11,360	13,164	3,483	2,947	2,514	2,416	2,545	3,454	3,607	3,558	774
110	Pembuatan minuman ringan	9,487	10,629	3,067	1,395	2,434	2,590	3,009	2,325	2,276	3,019	979
	11041 Pembuatan minuman ringan	5,031	6,267	1,564	890	1,252	1,325	1,580	1,363	1,600	1,724	519
	11042 Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	1,082	1,321	275	192	318	296	336	312	338	336	100
	Industri lain	3,375	3,040	1,228	313	864	970	1,093	650	338	959	360
120/ 12000	Pembuatan produk tembakau	3,060	2,940	946	184	934	997	973	594	266	1,108	320
131	Pemintalan, penenunan dan penyiapan tekstil	5,369	6,132	1,585	904	1,329	1,551	1,559	1,633	1,333	1,608	515
	13110 Penyediaan dan pemintalan gentian tekstil											
	&											
	13120 Penenunan tekstil	3,922	4,500	1,230	645	921	1,126	1,161	1,278	921	1,140	382
	13132 Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	1,391	1,570	337	254	392	408	386	343	391	450	127
	Industri lain	57	62	18	5	16	17	12	12	20	18	5
139	Pembuatan tekstil lain	3,498	4,595	906	673	922	997	1,034	1,046	1,210	1,306	344
	13910 Pembuatan fabrik dikait dan dikrusye	1,917	2,240	474	395	511	538	540	524	561	615	177
	Industri lain	1,581	2,356	432	278	411	460	495	522	649	690	166
141	Pembuatan pakaian, kecuali pakaian berbulu	8,372	8,631	2,309	1,579	2,103	2,382	2,278	1,953	2,019	2,381	787
	14102 Pembuatan pakaian	7,486	7,689	2,008	1,473	1,919	2,087	1,993	1,745	1,848	2,103	687
	Industri lain	885	942	300	106	184	295	286	208	171	278	100
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	400	405	91	83	112	114	112	104	78	111	38
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan bagasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	1,425	1,440	404	270	360	391	409	294	269	468	138
152	Pembuatan kasut	752	750	234	99	189	230	247	169	139	194	87
	15201 Pembuatan kasut kulit											
	&											
	15203 Pembuatan kasut getah	464	444	140	65	119	141	151	95	77	121	52
	Industri lain	288	306	94	33	70	90	97	74	62	74	35
161/ 16100	Pengilangan dan pengetaman kayu	5,600	5,885	1,661	642	1,561	1,737	1,759	1,126	1,227	1,773	585

2021											2022		Group Description/Period
Feb.	Mar.	Apr.	May	Jun	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.		
602	597	591	629	640	625	713	701	681	734	713	747	Processing and preserving of meat	
537	564	553	514	546	479	488	479	512	519	513	503	Processing and preserving of fish, crustaceans and molluscs	
510	537	530	490	522	455	464	454	483	492	484	476	Canning of fish, crustaceans and molluscs	
27	27	24	24	24	24	24	25	29	28	28	28	Processing, curing and preserving of fish, crustacean and molluscs	
27	27	24	24	24	24	24	25	29	28	28	28	Other industry	
170	174	171	146	141	129	124	126	134	143	142	162	Processing and preserving of fruits and vegetable	
45	38	37	26	23	24	28	27	27	30	25	28	Pineapple canning	
125	136	134	120	119	105	97	99	108	113	117	133	Manufacture of jams, marmalades and table jellies	
10,195	9,949	14,407	14,498	16,326	14,220	14,187	16,869	16,306	15,901	15,179	13,195	Other industry	
1,224	1,317	1,452	1,457	1,458	1,483	1,477	1,788	1,418	1,379	1,391	1,434	Manufacture of vegetable and animal oils and fats	
113	111	87	96	61	74	80	78	104	110	107	117	Manufacture of crude and refined vegetable oil	
8,858	8,521	12,868	12,945	14,807	12,662	12,630	15,003	14,783	14,412	13,681	11,644	Manufacture of compound cooking fats	
850	871	901	876	923	836	929	924	948	964	919	993	Manufacture of coconut oil	
778	799	832	810	857	775	867	857	880	898	854	923	Other industry	
72	72	69	66	66	61	62	67	67	66	66	70	Manufacture of dairy products	
662	711	760	707	760	685	689	760	801	758	753	824	Manufacture of condensed, powdered and evaporated milk	
265	272	351	339	358	313	316	374	395	341	347	376	Other industry	
367	412	383	344	377	350	347	359	379	387	377	420	Manufacture of grain mill products, starches and starch products	
30	27	26	23	25	23	25	28	28	30	29	28	Rice milling	
4,560	4,551	4,515	4,179	4,498	4,265	4,256	4,430	4,636	4,507	4,532	4,769	Flour milling	
180	198	234	147	144	151	153	163	200	235	241	271	Other industry	
1,256	968	1,001	1,042	1,150	1,050	1,079	994	990	934	930	987	Manufacture of other food products	
189	201	211	183	181	155	168	202	217	218	221	226	Manufacture of biscuits and cookies	
481	481	466	383	452	433	404	496	498	488	497	511	Manufacture of bread, cakes and other bakery products	
327	282	289	275	266	260	266	266	287	291	275	306	Manufacture of snack products	
948	1,137	1,132	1,021	1,061	1,038	1,009	1,034	1,114	1,023	1,045	1,120	Manufacture of sugar	
180	175	179	177	172	155	161	178	202	210	209	199	Manufacture of sugar confectionery	
374	403	377	369	383	396	412	429	443	425	428	474	Manufacture of sauces and condiments	
625	706	627	583	687	626	604	668	686	683	685	674	Manufacture of other food products n.e.c.	
784	987	1,134	1,155	1,164	1,217	1,198	1,193	1,165	1,188	1,204	1,279	Other industry	
981	1,049	1,004	821	499	578	790	908	1,067	975	977	1,042	Manufacture of prepared animal feeds	
520	541	544	413	406	470	637	494	611	554	559	543	Manufacture of beverages	
113	123	124	96	92	105	121	112	114	114	107	108	Manufacture of soft drinks	
347	386	336	312	2	3	33	303	342	307	310	392	Production of natural mineral waters and other bottled waters	
301	352	284	237	72	77	54	135	393	330	384	327	Other industry	
509	536	536	523	575	463	434	435	488	552	567	566	Manufacture of tobacco products	
382	397	416	421	441	323	314	284	319	409	412	411	Spinning, weaving and finishing of textiles	
124	135	116	98	130	136	111	144	163	137	150	150	Preparation and spinning of textile fibres	
4	4	4	4	4	4	9	7	6	6	5	5	Weaving of textiles	
326	364	347	339	360	395	404	410	431	429	445	446	Dyeing, bleaching, printing and finishing of yarns and fabrics	
170	193	168	171	184	186	179	195	210	195	211	203	Other industry	
157	172	179	168	175	209	225	215	221	234	235	243	Manufacture of other textiles	
763	729	689	644	620	655	678	686	783	786	813	787	Manufacture of knitted and crocheted fabrics	
666	640	609	564	572	613	622	612	692	686	725	689	Manufacture of wearing apparel, except fur apparel	
97	89	79	80	48	42	55	74	90	100	87	98	Manufacture of clothings	
38	37	42	42	20	25	24	29	35	37	39	38	Other industry	
132	139	119	113	63	60	89	119	149	160	159	161	Manufacture of articles of fur, knitted and crocheted apparel	
80	81	65	57	47	43	48	48	63	64	67	68	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur	
47	52	39	31	26	23	26	28	39	40	42	44	Manufacture of footwear	
33	29	27	26	22	20	21	20	24	24	25	25	Manufacture of leather footwear	
545	628	503	373	250	281	485	460	551	589	634	690	Manufacture of rubber footwear	
												Other industry	
												Sawmilling and planning of wood	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Jan.
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	16,681	17,143	5,740	1,659	4,447	4,836	5,123	3,038	3,482	5,500	1,707
16211	Pembuatan kepingan venier dan papan lapis	8,403	8,271	3,302	684	2,124	2,293	2,483	1,420	1,664	2,704	816
16212	Pembuatan papan partikel dan papan gentian	4,543	5,226	1,362	418	1,355	1,409	1,457	948	1,155	1,666	496
16221	Perfukangan kayu untuk jurubina	1,764	1,893	545	160	474	585	619	322	344	608	203
	Industri lain	1,971	1,752	532	396	494	549	564	348	319	522	192
170	Pembuatan kertas dan produk kertas	22,276	25,788	5,582	4,934	5,887	5,874	6,180	6,384	6,476	6,748	1,947
17010	Pembuatan pulpa, kertas dan kertas tebal	3,812	5,188	1,026	583	1,059	1,144	1,205	1,272	1,317	1,394	384
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	9,374	10,480	2,123	2,090	2,575	2,586	2,569	2,553	2,597	2,761	809
17091	Pembuatan sampul surat dan kad surat	389	326	113	108	84	84	83	80	80	82	27
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	4,629	5,154	1,250	1,139	1,155	1,085	1,216	1,286	1,292	1,360	377
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergelung dan label dan kertas dinding	2,392	2,797	662	622	578	531	636	734	747	680	189
	Industri lain	1,680	1,843	408	392	436	444	470	458	443	472	161
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	11,533	12,098	3,170	1,879	3,184	3,300	3,291	2,682	2,708	3,417	1,136
18110	Percetakan	9,369	9,747	2,579	1,539	2,588	2,662	2,518	2,110	2,306	2,813	866
18120	Aktiviti perkhidmatan berkaitan percetakan											
&												
18200	Penerbitan semula media rakaman	2,164	2,351	591	340	596	637	773	572	402	604	270
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	128,477	175,557	40,657	27,680	28,840	31,300	33,513	44,230	48,092	49,722	11,805
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	66,825	73,682	19,169	15,059	15,703	16,894	19,511	16,592	18,583	18,996	6,465
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	2,252	2,419	1,148	401	261	442	771	752	554	343	295
20112	Pembuatan kimia organik asas											
&												
20113	Pembuatan sebatian bukan organik	34,937	38,505	9,815	7,877	8,186	9,059	10,384	8,318	10,055	9,747	3,438
20121	Pembuatan baja											
&												
20129	Pembuatan produk campuran nitrogen	4,428	4,968	1,397	1,003	1,038	989	1,212	1,196	1,040	1,520	376
20131	Pembuatan plastik dalam bentuk primer	22,507	24,184	6,086	5,133	5,566	5,721	6,313	5,495	5,906	6,469	2,086
	Industri lain	2,701	3,607	723	645	651	682	831	831	1,028	917	269
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	23,776	28,646	6,222	4,712	6,369	6,473	6,878	6,572	7,003	8,193	2,238
20210	Pembuatan racun perosak dan produk agrokimia lain	1,883	2,681	419	375	518	572	650	608	636	787	216
20221	Pembuatan cat, varnis dan penyadur dan mastik	5,310	7,653	1,744	794	1,340	1,432	1,651	1,742	1,757	2,503	505
20222	Pembuatan dakwat cetak	998	989	368	200	202	228	246	253	237	252	82
20231	Pembuatan sabun dan bahan pencuci, penyediaan membersih dan mengilat											
&												
20232	Pembuatan pewangi dan penyediaan dandanan diri	9,385	10,633	2,114	1,988	2,691	2,591	2,665	2,327	2,757	2,884	885
20291	Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials											
&												
20292	Pembuatan dakwat menulis dan melukis	5,698	6,066	1,434	1,270	1,479	1,516	1,517	1,486	1,438	1,625	503
&												
20299	Pembuatan produk kimia lain t.t.t.l.											
	Industri lain	500	625	142	85	139	134	150	156	178	141	47
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	7,843	9,185	1,768	2,006	2,111	1,959	2,117	2,260	2,405	2,403	660
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	6,288	7,645	1,460	1,612	1,627	1,588	1,750	1,931	2,006	1,958	552
	Industri lain	1,556	1,540	308	394	483	371	367	329	399	445	108
221	Pembuatan produk getah	63,435	86,432	11,907	15,457	16,997	19,074	22,899	27,051	19,939	16,544	6,965
22111	Pembuatan tayar getah untuk kenderaan	4,146	5,509	796	982	1,205	1,163	1,065	920	2,013	1,510	332
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	726	666	116	216	226	168	178	159	146	185	61
22191	Pembuatan produk lain daripada getah asli atau sintetik, tidak divulkan, divulkan atau dikeraskan											
&												
22193	Pengilangan semula getah dan prosesan susu getah	8,752	7,914	1,870	2,188	2,359	2,335	2,292	2,136	1,684	1,803	740
22192	Pembuatan sarung tangan getah	44,219	65,418	7,999	10,845	11,616	13,759	17,568	22,044	14,479	11,326	5,243
22199	Pembuatan produk getah lain yang t.t.t.l.	5,592	6,925	1,126	1,225	1,591	1,649	1,796	1,792	1,617	1,720	591
222	Pembuatan produk plastik	48,459	58,617	11,572	11,442	12,580	12,866	13,733	15,041	14,847	14,996	4,484
22201	Pembuatan produk plastik separa siap											
&												
22202	Pembuatan produk plastik siap	14,628	17,691	3,318	3,705	3,805	3,800	4,205	4,728	4,508	4,250	1,383
22203	Pembuatan artikel plastik untuk pembungkusan	12,943	16,599	3,026	3,003	3,415	3,498	3,780	4,004	4,333	4,483	1,273
22204	Pembuatan barangan plastik jurubina	1,132	1,810	284	244	302	301	353	447	510	500	111
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	3,053	4,658	673	658	873	849	937	1,119	1,196	1,406	316
22209	Pembuatan pelbagai produk plastik t.t.t.l.	16,704	17,859	4,271	3,831	4,184	4,418	4,458	4,744	4,300	4,357	1,400
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	5,871	5,162	2,264	708	1,282	1,618	1,728	1,317	871	1,246	598

2021											2022		Group Description/Period
Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.		
1,632	1,784	1,380	892	766	731	1,259	1,493	1,685	1,878	1,937	1,989	Manufacture of products of wood, cork, straw and plaiting materials	
784	884	643	401	376	326	603	735	818	932	954	928	Manufacture of veneer sheets and plywood	
459	501	420	282	246	262	396	498	516	562	588	600	Manufacture of particle board and fibreboard	
205	211	161	101	60	72	139	133	195	202	210	235	Manufacture of builders' carpentry	
183	188	156	109	83	71	120	127	155	181	185	226	Other industry	
1,965	2,268	2,221	2,079	2,084	2,049	2,195	2,232	2,284	2,285	2,179	2,258	Manufacture of paper and paper products	
384	438	430	426	416	414	453	450	502	452	441	505	Manufacture of pulp, paper and paperboard	
806	954	951	858	744	820	882	895	947	953	861	825	Manufacture of corrugated paper and paperboard and containers of paper and paperboard	
26	30	27	28	26	25	27	28	28	27	27	26	Manufacture of envelopes and letter-card	
394	446	443	404	440	402	429	461	424	468	468	510	Manufacture of household and personal hygiene paper	
201	247	215	208	311	242	260	245	227	228	224	218	Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper	
155	154	156	155	147	146	144	153	156	157	158	175	Other industry	
1,091	1,064	1,062	934	687	801	935	971	983	1,210	1,224	1,223	Printing, service activities related to printing and reproduction of recorded media	
828	824	827	716	567	675	802	828	824	984	1,005	994	Printing	
263	240	234	218	120	126	133	143	159	226	219	230	Service activities related to printing	
												Reproduction of recorded media	
10,576	11,133	14,568	14,947	14,715	16,463	16,084	15,545	15,666	17,604	16,452	17,255	Manufacture of refined petroleum products	
6,387	6,658	5,142	5,267	6,183	6,293	6,488	5,802	5,903	6,191	6,902	6,664	Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms	
285	190	234	239	279	276	184	94	96	104	142	132	Manufacture of liquefied or compressed inorganic industrial or medical gases	
3,407	3,538	2,460	2,693	3,166	3,362	3,617	3,076	2,971	3,167	3,610	3,544	Manufacture of basic organic chemicals	
406	429	427	389	379	337	349	354	492	487	542	567	Manufacture of inorganic compounds	
2,013	2,214	1,733	1,679	2,084	2,007	1,966	1,932	2,073	2,128	2,267	1,978	Manufacture of associated nitrogen products	
275	287	288	267	275	311	371	346	271	305	341	443	Manufacture of plastics in primary forms	
2,183	2,458	2,274	2,138	2,159	2,015	2,329	2,659	2,657	2,686	2,850	2,976	Manufacture of other chemical products and man-made fibres	
208	226	218	185	205	203	213	220	242	251	294	350	Manufacture of pesticides and other agrochemical products	
498	648	645	596	501	381	593	783	827	809	866	906	Manufacture of paints, varnishes and similar coatings ink and mastics	
80	84	90	79	85	83	82	73	78	86	88	102	Manufacture of printing ink	
846	934	767	731	829	798	910	1,050	933	944	1,007	1,009	Manufacture of soap and detergents, cleaning and polishing preparations	
												Manufacture of perfumes and toilet preparations	
												Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials	
503	512	505	495	486	485	479	474	529	551	545	560	Manufacture of writing and drawing ink	
49	53	50	51	54	66	53	58	48	44	49	50	Manufacture of other chemical products n.e.c.	
700	756	722	695	843	766	799	839	818	807	778	819	Manufacture of pharmaceuticals, medicinal chemical and botanical products	
577	621	611	598	723	650	659	697	669	659	630	688	Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments	
123	135	112	97	120	116	141	143	149	147	148	131	Other industry	
6,437	9,496	9,513	8,764	8,774	8,217	5,877	5,845	5,766	5,505	5,273	5,166	Manufacture of rubber products	
354	380	370	301	249	1,157	443	414	645	433	432	428	Manufacture of rubber tyres for vehicles	
55	61	62	58	39	40	52	54	63	68	53	56	Manufacture of interchangeable tyre treads and retreading rubber tyres	
726	826	729	674	733	580	539	565	614	594	594	548	Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened	
4,724	7,602	7,726	7,165	7,154	5,905	4,307	4,267	3,849	3,837	3,640	3,604	Rubber remilling and latex processing	
578	627	627	566	600	535	537	546	594	573	553	530	Manufacture of rubber gloves	
4,365	4,884	5,171	4,903	4,967	4,841	5,070	4,937	4,954	4,997	5,045	4,846	Manufacture of plastics products	
1,338	1,483	1,589	1,535	1,603	1,545	1,483	1,480	1,433	1,410	1,408	1,311	Manufacture of semi-manufactures of plastic products	
1,199	1,308	1,378	1,308	1,317	1,432	1,518	1,383	1,462	1,519	1,501	1,525	Manufacture of finished plastic products	
101	141	148	141	158	155	168	187	166	167	167	162	Manufacture of plastic articles for the packing of goods	
273	348	380	350	388	308	430	458	478	429	499	530	Manufacture of builders' plastics ware	
1,454	1,604	1,675	1,567	1,501	1,400	1,471	1,429	1,416	1,471	1,470	1,318	Manufacture of plastic tableware, kitchenware and toilet articles	
												Manufacture of diverse plastic products n.e.c.	
561	569	503	471	343	279	258	334	354	441	450	464	Manufacture of glass and glass products	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Jan.
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	34,318	37,611	9,857	5,170	9,276	10,015	10,610	8,486	7,894	10,621	3,624
23911	Pembuatan mortar refraktori dan konkrit											
&												
23921	Pembuatan seramik bukan refraktori	2,005	2,146	599	297	506	604	727	504	304	612	250
23930	Pembuatan produk porselin dan seramik lain	745	1,006	197	146	188	214	251	243	235	277	84
23941	Pembuatan simen hidrolik	8,467	8,946	2,257	1,177	2,451	2,582	2,612	2,119	1,661	2,555	873
23951	Pembuatan konkrit dan mortar siap bancuh dan banchuan kering	5,897	6,617	2,054	761	1,461	1,621	1,703	1,399	1,482	2,032	581
23952	Pembuatan konkrit pratuangan, simen atau artikel batu											
&	buatan yang digunakan dalam pembinaan;											
23953	Pembuatan komponen struktur pasang siap untuk											
&	bangunan atau kejuruteraan awam dari simen, batu											
	atau konkrit buatan											
23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.											
23990	Pembuatan produk mineral bukan logam lain t.t.t.l.	2,851	3,624	781	467	768	836	997	831	864	931	341
	Industri lain	1,090	1,216	297	192	312	288	352	261	247	356	114
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	24,299	26,476	7,087	3,440	6,704	7,067	6,787	5,380	6,219	8,090	2,458
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	21,093	22,575	5,887	3,257	5,674	6,275	6,286	4,789	4,903	6,598	2,063
243	Pengacuan logam	504	514	154	87	140	123	122	126	113	153	42
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	22,226	24,551	6,580	4,018	5,404	6,223	6,537	5,689	5,363	6,961	2,340
25113	Pembuatan pintu, tingkap dan bingkai, penutup											
&	tingkap dan pintu pagar daripada logam											
25119	Pembuatan produk struktur logam lain	15,705	17,192	4,723	2,753	3,821	4,408	4,691	3,874	3,842	4,785	1,698
25120	Pembuatan tangki, takungan dan kontena daripada logam	5,612	6,640	1,586	1,097	1,353	1,576	1,639	1,640	1,372	1,990	563
	Industri lain	908	718	271	168	230	239	207	176	149	186	78
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	31,160	32,456	8,924	6,107	7,793	8,336	8,935	7,898	6,591	9,031	3,074
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan logam; serbuk metalurgi	3,574	4,189	1,257	651	759	907	1,073	1,026	914	1,176	371
25920	Rawatan dan penyalutan logam; menggunakan mesin	2,153	2,920	604	424	555	571	799	672	592	856	252
25991	Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat	6,731	5,995	1,912	1,550	1,612	1,657	1,592	1,418	1,375	1,610	565
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal)											
&	dan artikel seumpamanya daripada logam											
25993	Pembuatan bolt, skru, nat dan produk uliran seumpamanya	11,769	11,842	3,332	2,011	3,106	3,320	3,595	2,788	2,130	3,329	1,244
25994	Pembuatan barangan rumah daripada logam	159	241	54	27	39	39	61	68	56	56	16
25999	Pembuatan produk lain yang direka daripada logam t.t.t.l.	6,191	6,529	1,621	1,306	1,574	1,689	1,644	1,736	1,348	1,800	565
	Industri lain	583	739	144	138	148	152	170	189	176	204	60
261	Pembuatan komponen dan papan elektronik	225,020	268,522	56,043	46,764	61,190	61,023	63,776	58,728	70,923	75,095	20,978
26101	Pembuatan diod, transistor dan alatan semikonduktor yang seumpamanya											
26102	Pembuatan litar elektronik bersepadu dengan pemasangan mikro	132,175	154,125	33,051	27,735	35,168	36,221	36,520	33,940	39,498	44,166	12,457
26103	Pembuatan kapasitor dan perintang elektrik											
&												
26104	Pembuatan papan litar bercetak	85,847	105,853	21,686	17,525	23,940	22,697	25,358	22,818	29,243	28,434	7,906
&												
26105	Pembuatan komponen paparan											
26109	Pembuatan komponen lain untuk aplikasi elektronik	6,998	8,544	1,307	1,504	2,082	2,105	1,897	1,970	2,182	2,495	615
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	44,740	46,756	10,932	8,931	12,831	12,047	11,801	13,262	9,323	12,370	3,642
263/ 26300	Pembuatan peralatan komunikasi	17,120	14,469	4,117	3,838	4,849	4,315	4,163	3,337	3,173	3,796	1,466
264/ 26400	Pembuatan peralatan elektronik pengguna	35,626	38,593	8,737	5,654	11,212	10,022	9,612	8,658	8,877	11,445	3,211
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	13,027	14,075	2,859	2,854	3,800	3,515	3,279	2,849	3,554	4,393	1,297
26511	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan	11,654	12,238	2,540	2,591	3,413	3,110	2,866	2,458	3,130	3,784	1,157
26512	Pembuatan kelengkapan kawalan proses perindustrian											
26520	Pembuatan jam tangan dan jam dan bahagiannya	1,373	1,837	319	262	387	405	412	391	424	609	140
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	6,278	7,829	1,536	1,362	1,720	1,659	1,964	2,159	2,209	1,497	712

2021											2022		Group Description/Period
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
3,408	3,579	3,206	2,946	2,335	2,383	2,688	2,823	3,204	3,632	3,785	3,961	Manufacture of non-metallic mineral products n.e.c. Manufacture of refractory mortars and concretes	
232	245	191	186	127	71	105	128	180	208	224	233	Manufacture of non-refractory ceramic	
84	82	86	85	71	67	80	88	91	93	93	90	Manufacture of other porcelain and ceramic products	
852	886	837	754	528	531	561	570	756	887	912	885	Manufacture of hydraulic cement	
544	578	510	485	404	406	490	586	621	707	704	724	Manufacture of ready-mix and dry-mix concrete and mortars	
												Manufacture of precast concrete, cement or artificial stone articles for use in construction	
1,269	1,319	1,174	1,065	890	967	1,074	1,059	1,135	1,304	1,418	1,513	Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone	
313	343	295	287	250	279	291	294	312	312	307	374	Manufacture of other articles of concrete, cement and plaster n.e.c.	
113	124	112	82	66	63	87	98	109	121	126	143	Manufacture of other non-metallic mineral products n.e.c. Other industry	
2,137	2,192	2,197	1,795	1,389	1,330	2,113	2,776	2,731	2,685	2,673	2,763	Manufacture of basic iron and steel	
2,111	2,112	1,968	1,574	1,246	1,130	1,718	2,055	2,141	2,195	2,262	2,193	Manufacture of basic precious and other non-ferrous metals	
39	42	51	47	28	28	40	45	48	50	54	49	Casting of metals	
2,062	2,135	2,145	2,016	1,529	1,496	1,820	2,047	2,207	2,276	2,478	2,764	Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition	
1,470	1,523	1,526	1,416	931	1,087	1,251	1,503	1,524	1,548	1,713	2,050	Manufacture of metal doors, windows and their frames, shutters and gates	
												Manufacture of other structural metal products	
536	540	554	537	549	363	520	490	627	664	698	644	Manufacture of tanks, reservoirs and containers of metal	
56	73	65	62	49	46	49	54	55	64	66	70	Other industry	
2,912	2,949	3,150	2,795	1,953	1,874	2,130	2,587	2,883	2,999	3,149	3,135	Manufacture of other fabricated metal products; metal working service activities	
333	368	370	369	286	286	289	339	367	397	412	414	Forging, pressing, stamping and roll-forming of metal; powder metallurgy	
265	282	271	219	183	161	201	231	277	287	291	280	Treatment and coating of metals; machining	
516	511	505	452	460	393	452	530	511	537	562	563	Manufacture of tins and cans for food products, collapsible tubes and boxes	
												Manufacture of metal cable, plaited bands and similar articles	
1,190	1,161	1,104	1,109	575	566	684	880	1,064	1,097	1,169	1,189	Manufacture of bolts, screws, nuts and similar threaded products	
17	28	29	27	12	19	18	18	18	19	19	21	Manufacture of metal household articles	
546	533	799	553	385	391	426	531	581	593	627	586	Manufacture of any other fabricated metal products n.e.c.	
45	65	72	65	52	57	60	58	66	69	69	82	Other industry	
21,105	21,692	19,142	18,592	20,994	21,593	23,218	26,112	24,782	24,072	26,241	23,010	Manufacture of electronic components and boards	
11,786	12,278	11,046	10,610	12,284	12,706	12,856	13,936	14,670	14,283	15,213	14,304	Manufacture of diodes, transistors and similar semiconductor devices	
												Manufacture of electronic integrated circuits micro assemblies	
												Manufacture of electrical capacitors and resistors	
8,710	8,741	7,482	7,324	8,012	8,261	9,659	11,323	9,303	8,968	10,164	7,881	Manufacture of printed circuit boards	
609	673	615	658	697	626	703	853	809	821	865	826	Manufacture of display components	
												Manufacture of other components for electronic applications	
3,956	4,203	5,048	3,843	4,371	3,642	3,382	2,299	4,405	3,797	4,169	4,274	Manufacture of computers and peripheral equipment	
1,311	1,386	1,021	968	1,349	945	992	1,236	1,260	1,271	1,265	1,121	Manufacture of communication equipment	
3,196	3,205	2,960	2,820	2,878	1,932	3,318	3,627	3,881	3,948	3,617	3,659	Manufacture of consumer electronics	
930	1,052	935	899	1,014	991	1,204	1,359	1,339	1,331	1,723	1,788	Manufacture of measuring, testing, navigating and control equipment; watches and clocks	
797	912	806	777	875	858	1,076	1,196	1,140	1,113	1,531	1,613	Manufacture of measuring, testing, navigating and control equipment	
												Manufacture of industrial process control equipment	
133	140	130	122	140	132	129	163	199	218	192	176	Manufacture of watches and clocks and parts	
598	654	644	617	897	807	641	761	811	336	349	316	Manufacture of irradiation, electromedical and electrotherapeutic equipment	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Jan.
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	1,417	1,682	298	284	424	411	370	383	371	559	130
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	10,580	12,845	2,556	2,095	3,012	2,916	2,794	3,091	3,214	3,745	954
	27101 Pembuatan motor elektrik, penjana dan transformer	4,131	4,672	887	857	1,222	1,165	1,033	1,117	1,203	1,319	354
	27102 Pembuatan perkakasan pengagihan dan pengawalan	6,449	8,173	1,669	1,238	1,791	1,751	1,762	1,974	2,011	2,426	600
272/ 27200	Pembuatan bateri dan akumulator	5,166	4,975	1,032	1,397	1,496	1,240	968	1,212	1,464	1,331	382
273	Pembuatan pendawaian dan peranti pendawaian	8,432	10,640	2,208	1,441	2,317	2,467	2,396	2,580	2,673	2,990	826
	27310 Pembuatan kabel gentian optikal	227	308	59	47	61	61	63	62	85	98	22
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	7,731	9,599	2,019	1,311	2,129	2,271	2,178	2,325	2,397	2,699	753
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	474	734	130	82	127	135	155	193	192	193	51
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	1,324	1,287	219	330	449	326	286	306	318	376	99
275/ 27500	Pembuatan perkakasan domestik	10,017	10,968	2,694	1,724	2,839	2,760	2,553	2,581	2,707	3,127	879
279/ 27900	Pembuatan kelengkapan elektrik lain	6,605	7,774	1,386	1,432	1,938	1,849	1,670	1,921	2,005	2,178	599
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	36,825	42,783	8,917	8,354	9,974	9,580	9,430	11,289	10,655	11,408	3,092
	28120 & 28130 Pembuatan alat-alat kuasa bendalir	2,312	2,912	698	405	575	633	622	761	690	839	139
	28180 & 28220 Pembuatan alatan tangan yang menggunakan kuasa dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatik	8,498	10,853	1,968	2,070	2,312	2,148	2,407	2,987	2,675	2,783	831
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	10,135	11,938	2,183	2,377	2,900	2,675	2,725	3,099	2,901	3,213	961
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	6,803 9,078	6,030 11,049	1,766 2,303	1,724 1,778	1,674 2,513	1,639 2,484	1,235 2,440	1,673 2,769	1,546 2,843	1,576 2,997	389 772
291 (29101 & 29102)	Pembuatan kenderaan bermotor	36,716	38,540	7,913	4,428	11,601	12,773	9,334	7,718	8,131	13,355	3,146
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	5,501	6,553	1,015	1,348	1,717	1,421	1,531	1,742	1,271	2,009	503
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	30,759	32,291	7,004	5,941	8,944	8,870	8,688	7,803	6,895	8,905	2,742
301 (30110 & 30120)	Pembinaan kapal dan bot	3,399	5,121	1,063	250	850	1,236	1,198	1,135	1,224	1,564	396
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.	9,546	8,983	2,702	1,941	2,387	2,516	2,537	2,160	1,787	2,498	870
	30910 Pembuatan motosikal	2,352	2,041	1,034	308	468	541	606	543	383	509	206
	30920 Pembuatan basikal dan invalid carriages	2,240	2,317	377	467	672	725	644	514	481	678	238
	Industri lain	4,955	4,625	1,291	1,166	1,247	1,251	1,287	1,104	923	1,312	425
310	Pembuatan perabot	16,524	15,579	4,475	2,416	4,718	4,914	4,702	3,230	2,876	4,772	1,631
	31001 Pembuatan perabot kayu dan rotan	10,982	8,579	3,155	1,512	3,096	3,219	3,029	1,801	1,414	2,335	1,028
	Industri lain	5,542	7,001	1,320	904	1,623	1,695	1,673	1,429	1,462	2,437	603
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	4,416	4,501	1,309	597	1,240	1,269	1,333	1,391	593	1,184	489
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	5,209	5,573	1,316	1,171	1,403	1,321	1,352	1,339	1,375	1,508	448
	32901 Pembuatan alat tulis	1,230	1,386	316	275	329	310	366	372	315	333	116
	Industri lain	3,980	4,187	1,000	896	1,074	1,010	986	967	1,060	1,175	333
323/ 32300	Pembuatan barangan sukan	273	200	54	76	76	67	56	59	37	49	17
324/ 32400	Pembuatan permainan dan mainan	600	623	168	104	164	164	144	154	135	190	42
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	5,324	5,326	1,421	870	1,563	1,469	1,430	1,129	1,176	1,591	466
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	1,695	1,800	282	327	580	505	474	369	409	548	158
	Industri lain	3,629	3,526	1,139	544	983	964	955	760	767	1,043	308
Jumlah Pembuatan		1,346,620	1,554,738	339,324	282,020	358,828	366,447	368,234	377,735	381,793	426,976	122,887

2021												2022	Group Description/Period
Feb.	Mar.	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
123	117	127	111	145	99	120	152	198	173	187	159		Manufacture of optical instruments, photographic equipment, magnetic and optical media
851	989	1,076	961	1,054	929	1,125	1,160	1,216	1,208	1,320	1,245		Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus
315	363	394	336	388	384	414	404	424	411	484	445		Manufacture of electric motors, generators and transformers
536	626	682	626	666	545	710	756	793	797	836	800		Manufacture of electricity distribution and control apparatus
281	306	374	349	489	457	534	474	484	456	392	433		Manufacture of batteries and accumulators
777	793	862	837	881	845	894	935	1,006	998	987	938		Manufacture of wiring and wiring devices
19	21	23	19	20	28	27	30	33	28	37	27		Manufacture of fibre optic cables
710	716	777	758	789	748	803	846	906	898	894	846		Manufacture of other electronic and electric wires and cables
													Manufacture of current -carrying and non current-carrying wiring devices for electrical circuits regardless of material
47	57	62	59	71	69	64	59	67	71	55	64		
86	102	109	95	103	78	113	127	159	111	106	111		Manufacture of electric lighting equipment
849	826	892	824	866	855	930	922	1,006	1,034	1,087	1,004		Manufacture of domestic appliances
519	552	622	601	698	587	675	743	715	706	757	653		Manufacture of other electrical equipment
3,108	3,230	3,873	3,512	3,904	3,066	3,794	3,795	3,818	3,814	3,776	3,605		Manufacture of general-purpose and special-purpose machinery
													Manufacture of fluid power equipment
228	256	277	247	237	138	276	275	296	271	273	190		Manufacture of other pumps, compressors, taps and valves
													Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives
803	773	1,013	959	1,016	930	871	874	960	907	916	817		Manufacture of metal-forming machinery and machine tools
866	897	1,073	927	1,100	623	1,178	1,101	1,093	1,116	1,004	1,045		Manufacture of air-conditioning machines, including for motor vehicles
405	441	553	455	664	512	506	528	520	514	542	549		Manufacture of other special-purpose machinery n.e.c.
806	862	958	924	888	862	963	1,017	950	1,005	1,042	1,003		Other industry
2,999	3,189	3,187	2,719	1,813	2,401	2,412	3,318	4,287	4,683	4,385	3,451		Manufacture of motor vehicles
432	596	739	578	425	361	388	522	683	687	639	641		Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
2,740	3,206	2,968	2,718	2,117	2,214	2,382	2,300	2,931	3,089	2,884	2,839		Manufacture of parts and accessories for motor vehicles
384	418	451	310	373	335	411	477	568	524	471	438		Building of ships and boats
746	922	886	684	591	531	620	637	734	890	873	862		Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c
187	213	218	190	135	126	129	128	139	181	189	183		Manufacture of motorcycles
164	242	225	198	91	99	185	197	219	223	235	224		Manufacture of bicycles and invalid carriages
395	466	442	296	365	305	306	312	377	486	449	454		Other industry
1,478	1,593	1,206	1,177	847	614	968	1,294	1,494	1,646	1,633	1,761		Manufacture of furniture
955	1,046	674	655	472	339	496	579	684	823	828	929		Manufacture of wooden and cane furniture
523	547	532	522	375	275	471	715	810	823	804	832		Other industry
413	431	583	528	279	116	148	329	364	415	404	451		Manufacture of jewellery, bijouterie and related articles
438	466	476	454	409	423	461	491	498	494	515	515		Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.
115	136	130	129	112	100	118	97	108	110	115	116		Manufacture of stationery
323	330	346	324	297	323	343	394	391	384	400	399		Other industry
18	21	22	21	15	11	12	14	14	18	18	18		Manufacture of sports goods
41	61	67	64	22	42	35	58	64	64	62	63		Manufacture of games and toys
433	531	481	328	321	332	366	477	506	565	519	511		Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment
126	190	166	102	101	106	116	187	173	190	185	170		Repair and maintenance of transport equipment except motorcycles and bicycles
307	341	315	226	219	226	251	291	334	376	334	341		Other industry
118,412	126,935	130,646	122,726	124,363	119,934	126,536	135,323	140,655	142,411	143,911	138,986		Total Manufacturing

Jadual
Table **1.4b** : Nilai Jualan Sektor Pembuatan Mengikut Kumpulan: Perubahan Peratusan Tahunan
: Sales Value of Manufacturing Sector by Group: Annual Percentage Change

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
101	Pemprosesan dan pengawetan daging	9.4	8.7	30.7	-7.9	5.5	13.1	41.0	35.9
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	-2.3	0.8	4.5	22.0	-13.1	-5.7	3.3	0.0
	10201 Pengetinan ikan, krustasea dan moluska								
	&								
	10202 Pemprosesan dan pengawetan ikan, krustasea dan moluska	-1.3	0.6	4.7	22.2	-13.1	-6.9	3.8	0.2
	Industri lain	-19.0	5.2	0.2	17.6	-12.4	20.7	-4.6	-3.9
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	7.9	-1.1	29.8	12.0	-25.3	-12.6	20.8	19.4
	10303 Pengetinan nanas								
	&								
	10304 Pembuatan jem, marmalad dan sajian jeli	2.6	4.9	4.0	10.3	5.7	0.2	10.0	3.3
	Industri lain	9.3	-2.6	39.9	12.4	-30.6	-15.2	23.8	26.6
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	14.3	13.9	12.3	12.8	11.6	18.2	10.3	11.8
	10404 Pembuatan minyak sayuran mentah dan bertapis								
	&								
	10406 Pembuatan sebatian lemak masakan	3.1	24.3	13.3	40.4	36.8	9.5	5.8	19.0
	10405 Pembuatan minyak kelapa	6.6	-6.3	10.9	-1.9	-23.8	-9.6	22.5	4.7
	Industri lain	15.7	13.0	12.2	10.6	9.5	19.4	10.8	11.0
105	Pembuatan produk tenusu	3.3	7.4	3.8	13.1	2.0	11.4	5.0	3.3
	10502 Pembuatan susu pekat, tepung dan sejat	4.4	7.2	2.4	12.2	2.0	12.6	4.9	1.7
	Industri lain	-8.7	10.9	21.5	25.6	2.6	-2.5	6.8	24.3
106	Pembuatan produk bijian, kanji dan produk berkanji	3.5	18.4	3.8	21.2	20.2	29.8	0.4	3.8
	10611 Pengilangan beras	18.8	22.2	-10.4	20.6	34.5	51.6	0.2	-10.6
	10613 Pengilangan tepung	-6.1	16.8	17.2	24.4	10.8	15.6	0.9	17.7
	Industri lain	-3.2	-0.5	-3.3	-7.3	-1.8	10.9	-4.2	2.9
107	Pembuatan produk makanan lain	9.4	12.3	22.0	10.4	6.3	11.5	17.6	18.6
	10711 Pembuatan biskut dan cookies	1.9	4.4	14.8	7.9	-14.9	10.5	22.3	7.2
	10712 Pembuatan roti, kek dan produk bakeri lain	31.6	6.4	35.8	-1.9	-3.3	2.4	21.9	56.2
	10713 Pembuatan produk snek	-8.9	-1.8	-3.6	-4.8	-10.0	11.3	-5.1	-10.1
	10721 Pembuatan gula	-6.5	20.0	9.0	24.7	24.8	23.4	8.1	-2.2
	10731 Pembuatan produk koko	-7.5	-8.0	-1.9	-10.0	-11.0	-9.4	-0.4	1.1
	10732 Pembuatan coklat dan produk coklat								
	&								
	10733 Pembuatan konfeksi gula	23.1	25.4	48.8	28.8	17.1	12.7	43.1	31.9
	10793 Pembuatan sos dan bahan perasa	-17.5	15.1	7.9	26.5	3.0	24.3	1.2	2.5
	10799 Pembuatan produk makanan lain t.t.t.l.	13.9	19.8	18.0	8.1	27.8	25.7	16.2	8.0
	Industri lain	1.6	11.5	11.0	12.9	6.4	15.7	9.2	2.9
108/ 10800	Pembuatan makanan haiwan tersedia	-16.3	15.9	-26.9	17.2	43.5	47.3	-33.7	-32.4
110	Pembuatan minuman ringan	-24.5	12.0	-1.9	66.6	-6.5	16.5	-9.4	-4.1
	11041 Pembuatan minuman ringan	-27.1	24.6	1.0	53.1	27.8	30.2	-3.6	-2.6
	11042 Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	-15.3	22.2	22.1	61.9	6.2	13.5	-4.0	21.4
	Industri lain	-23.2	-9.9	-11.0	108.0	-60.9	-1.1	-17.8	-12.1
120/ 12000	Pembuatan produk tembakau	-21.7	-3.9	2.9	222.9	-71.5	11.1	1.7	1.2
131	Pemintalan, penenunan dan penyiapan tekstil	-13.9	14.2	-1.6	80.7	0.2	3.7	-6.1	-5.5
	13110 Penyediaan dan pemintalan gentian tekstil								
	&								
	13120 Penenunan tekstil	-18.1	14.8	-5.5	98.1	0.03	1.2	-10.4	-8.9
	13132 Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	3.4	12.9	14.3	35.2	-0.2	10.3	10.8	9.6
	Industri lain	-43.9	9.8	-32.4	134.2	22.1	6.4	-22.7	-46.9
139	Pembuatan tekstil lain	-8.7	31.4	14.2	55.3	31.2	30.9	10.9	4.6
	13910 Pembuatan fabrik dikait dan dikrusye	-10.5	16.8	13.9	32.6	9.8	14.5	7.2	4.6
	Industri lain	-6.4	49.0	14.5	87.5	57.9	50.2	15.3	4.5
141	Pembuatan pakaian, kecuali pakaian berbulu	-9.8	3.1	-1.3	23.7	-4.0	0.0	-2.2	-1.3
	14102 Pembuatan pakaian	-6.4	2.7	-0.8	18.5	-3.7	0.8	-0.9	-1.2
	Industri lain	-31.2	6.5	-5.0	97.1	-7.1	-5.9	-10.3	-1.5
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	-14.0	1.4	23.8	25.1	-30.9	-2.1	24.0	13.9
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan bagasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	-12.8	1.0	1.1	9.0	-25.3	19.6	0.8	1.6
152	Pembuatan kasut	-26.4	-0.3	5.8	70.8	-26.5	-15.6	2.0	-0.6
	15201 Pembuatan kasut kulit								
	&								
	15203 Pembuatan kasut getah	-29.7	-4.4	8.0	45.5	-35.1	-14.2	0.9	-1.9
	Industri lain	-20.5	6.3	2.6	120.5	-12.1	-17.9	3.7	1.4
161/ 16100	Pengilangan dan pengetaman kayu	-19.8	5.1	5.9	75.5	-21.4	2.1	2.2	-0.5

(%)

2021										2022		Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
16.8	-6.8	-8.4	-8.5	-3.2	11.2	8.5	10.1	9.9	19.8	14.8	Processing and preserving of meat	
10.4	43.5	15.4	11.0	-12.6	-12.1	-14.6	-6.2	-1.5	-9.2	-12.8	Processing and preserving of fish, crustaceans and molluscs Canning of fish, crustaceans and molluscs	
10.4	43.8	15.0	11.7	-12.5	-12.0	-14.9	-7.2	-2.7	-10.5	-13.5	Processing, curing and preserving of fish, crustacean and molluscs	
10.8	36.9	24.2	-1.6	-15.3	-12.5	-9.2	13.4	27.7	22.2	0.2	Other industry	
54.5	97.4	10.9	-26.0	-26.0	-24.5	-25.4	-19.5	-8.2	-9.5	-8.6	Processing and preserving of fruits and vegetable	
-0.1	52.8	-0.4	-17.0	-4.5	9.1	12.8	10.9	17.7	-21.4	-17.7	Pineapple canning	
82.8	114.8	13.7	-27.5	-29.6	-30.6	-31.7	-24.6	-13.2	-6.5	-6.4	Manufacture of jams, marmalades and table jellies	
15.0	15.2	11.4	12.0	11.3	10.0	13.3	9.3	24.6	22.5	26.2	Other industry	
16.0	51.3	38.0	33.1	29.5	27.6	53.0	7.7	10.1	10.8	15.2	Manufacture of vegetable and animal oils and fats	
6.4	15.3	32.2	-39.4	-26.7	-20.8	-23.8	-8.5	-7.2	-12.8	-2.3	Manufacture of crude and refined vegetable oil	
15.0	12.2	8.9	10.6	9.8	8.5	10.1	9.6	26.5	24.3	28.1	Manufacture of compound cooking fats	
3.0	30.4	9.8	2.8	-7.3	2.5	11.6	6.2	14.0	14.3	15.0	Manufacture of coconut oil	
0.7	30.4	8.4	1.8	-7.9	2.4	12.5	6.7	15.7	15.7	16.3	Other industry	
36.9	30.8	30.2	16.6	2.0	3.9	1.9	-0.3	-5.1	-1.9	0.01	Manufacture of dairy products	
7.1	15.2	22.5	26.5	16.9	16.7	26.9	29.3	30.8	29.4	27.2	Manufacture of condensed, powdered and evaporated milk	
-18.2	2.3	27.3	37.8	27.5	28.1	47.5	52.3	44.8	57.9	50.3	Other industry	
36.3	32.5	21.5	19.6	10.8	9.1	12.4	13.4	21.9	11.9	13.3	Manufacture of grain mill products, starches and starch products	
-8.4	-5.3	-13.9	-2.7	-10.1	0.5	3.8	4.5	13.3	14.9	3.0	Rice milling	
30.4	21.4	8.2	3.0	4.7	2.3	12.2	14.0	10.6	9.9	10.2	Flour milling	
15.4	56.7	-6.3	-20.2	-16.6	-16.3	-11.8	7.0	14.1	10.2	43.3	Other industry	
28.8	-11.8	5.6	1.4	-6.7	-5.3	3.2	3.1	1.6	2.3	0.6	Manufacture of other food products	
5.0	8.0	-6.6	-14.8	-20.0	-13.7	3.7	9.9	11.7	12.3	16.3	Manufacture of biscuits and cookies	
24.0	45.7	19.5	12.1	22.3	13.2	38.7	26.4	23.7	20.1	20.9	Manufacture of bread, cakes and other bakery products	
-6.7	-9.4	-10.2	-10.4	-13.2	-12.1	-7.4	-13.7	-3.9	-10.0	-3.5	Manufacture of snack products	
73.8	74.8	20.2	6.3	22.5	11.1	18.0	24.0	6.9	7.9	9.1	Manufacture of sugar	
23.3	37.4	28.4	15.2	-4.1	-0.01	13.5	23.1	28.3	21.6	6.3	Manufacture of cocoa products	
31.0	44.2	-1.7	-6.0	24.1	28.0	31.3	35.5	20.3	22.0	30.6	Manufacture of chocolate and chocolate products	
21.4	11.8	9.1	17.6	6.0	2.1	11.0	13.2	17.4	16.7	4.4	Manufacture of sugar confectionery	
-14.6	-1.5	28.3	30.1	44.7	42.9	42.9	44.2	47.7	49.9	65.3	Manufacture of sauces and condiments	
8.9	177.0	88.0	-16.2	-19.1	-7.4	4.8	24.3	17.2	8.5	6.4	Manufacture of other food products n.e.c.	
10.1	85.1	49.6	26.7	24.9	45.9	12.4	41.1	32.1	18.4	4.6	Other industry	
58.0	254.7	28.8	10.7	7.2	10.3	1.4	12.5	16.8	11.3	7.5	Manufacture of prepared animal feeds	
-2.3	897.4	263.4	-98.9	-98.9	-89.4	-4.6	5.6	-2.6	-6.4	8.7	Manufacture of beverages	
5.4	4,736.7	641.2	-50.5	-75.2	-81.2	-59.9	17.4	7.6	8.3	2.3	Manufacture of soft drinks	
7.4	191.9	70.8	38.7	7.7	-3.4	-3.2	-5.5	7.7	8.7	9.9	Production of natural mineral waters and other bottled waters	
3.4	239.8	89.0	47.1	7.1	1.5	-8.4	-9.8	6.2	6.2	7.4	Other industry	
22.8	89.9	18.4	17.5	10.2	-17.1	7.1	3.7	12.1	16.7	17.6	Manufacture of tobacco products	
-25.4	5,136.9	375.1	-4.0	-18.1	45.3	32.5	8.2	11.3	-0.4	5.4	Spinning, weaving and finishing of textiles	
28.4	181.1	31.3	23.3	34.0	28.5	31.4	28.5	35.2	29.3	29.9	Preparation and spinning of textile fibres	
31.8	169.0	5.6	8.1	10.5	3.7	15.4	13.1	16.8	13.7	14.6	Weaving of textiles	
24.6	193.5	74.5	44.6	65.5	58.6	50.5	47.7	55.6	47.5	46.2	Dyeing, bleaching, printing and finishing of yarns and fabrics	
-0.4	85.2	22.9	-9.2	-5.2	0.3	-6.7	-1.6	4.0	-2.1	0.1	Other industry	
-0.1	73.1	16.6	-10.3	-5.4	0.2	-5.7	-1.2	4.5	-0.6	0.3	Manufacture of other textiles	
-2.2	299.8	99.8	6.3	-2.7	1.0	-14.5	-4.8	0.7	-13.3	-1.7	Manufacture of knitted and crocheted fabrics	
35.4	173.9	30.4	-43.2	-40.6	-28.1	-22.0	-5.1	0.4	-1.7	1.6	Other industry	
0.9	232.6	12.5	-53.3	-53.8	-20.6	2.0	19.3	19.7	19.8	17.0	Manufacture of wearing apparel, except fur apparel	
18.1	562.0	164.1	-30.3	-29.5	-20.5	-29.2	-10.8	-12.1	-22.5	-20.9	Manufacture of clothings	
28.8	363.0	80.8	-36.0	-41.1	-30.6	-33.5	-13.4	-12.7	-16.2	-15.7	Other industry	
2.8	1,661.5	498.3	-22.1	-9.6	-3.0	-22.1	-6.4	-11.0	-31.1	-28.7	Manufacture of articles of fur, knitted and crocheted apparel	
16.4	1,274.9	443.3	-53.5	-44.9	-4.5	-15.2	-1.1	4.5	2.9	17.9	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur	
											Manufacture of footwear	
											Manufacture of leather footwear	
											Manufacture of rubber footwear	
											Other industry	
											Sawmilling and planning of wood	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	-25.4	2.8	-10.7	83.2	-21.7	13.7	-14.7	-14.0
16211	Pembuatan kepingan venier dan papan lapis	-35.4	-1.6	-24.8	107.6	-21.7	17.9	-30.9	-24.8
16212	Pembuatan papan partikel dan papan gentian	-11.9	15.0	7.0	126.9	-14.7	18.2	12.7	-5.2
16221	Perfukangan kayu untuk jurubina	-18.2	7.3	13.7	100.6	-27.3	4.0	3.9	10.4
	Industri lain	-3.2	-11.1	6.0	-12.1	-35.5	-5.0	4.2	-0.7
170	Pembuatan kertas dan produk kertas	-2.1	15.8	10.7	29.4	10.0	14.9	8.4	4.9
17010	Pembuatan pulpa, kertas dan kertas tebal	-3.5	36.1	17.5	118.0	24.3	21.9	16.8	7.8
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	9.7	11.8	21.0	22.2	0.9	6.7	12.7	14.7
17091	Pembuatan sampul surat dan kad surat	-32.3	-16.1	-26.0	-25.4	-4.5	-2.7	-30.1	-22.8
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	-10.6	11.3	-2.7	12.9	11.8	25.4	4.6	-5.5
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	-19.2	16.9	-3.9	18.1	29.3	28.1	-8.3	-13.0
	Industri lain	9.2	9.7	15.0	16.8	1.8	6.3	11.7	16.2
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	-8.3	4.9	3.8	42.7	-15.0	3.5	1.7	2.5
18110	Percetakan	-7.4	4.0	-2.4	37.1	-10.9	5.6	-4.5	-2.8
18120	Aktiviti perkhidmatan berkaitan percetakan								
&									
18200	Penerbitan semula media rakaman	-11.9	8.6	30.8	68.2	-32.5	-5.2	28.0	24.1
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	-14.0	36.6	-17.6	59.8	66.8	58.9	-21.2	-16.8
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	-14.2	10.3	1.8	10.2	18.3	12.4	-0.3	4.2
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	-50.1	7.4	-32.9	87.7	112.0	-22.5	-23.7	-17.0
20112	Pembuatan kimia organik asas								
&									
20113	Pembuatan sebatian bukan organik	-14.7	10.2	5.8	5.6	22.8	7.6	0.01	6.24
20121	Pembuatan baja								
&									
20129	Pembuatan produk campuran nitrogen	-22.8	12.2	-13.3	19.2	0.1	53.7	-19.8	-14.7
20131	Pembuatan plastik dalam bentuk primer	-6.0	7.5	3.7	7.1	6.1	13.1	5.6	7.5
	Industri lain	-3.0	33.6	15.0	28.7	58.1	34.4	24.2	20.6
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	-5.5	20.5	10.5	39.5	10.0	26.6	5.1	3.3
20210	Pembuatan racun perosak dan produk agrokimia lain	-6.6	42.3	55.0	62.3	22.8	37.5	24.5	62.1
20221	Pembuatan cat, varnis dan penyadur dan mastik	-16.4	44.1	-5.4	119.4	31.1	74.8	-14.8	-16.9
20222	Pembuatan dakwat cetak	-34.6	-1.0	-33.2	26.3	17.6	10.5	-40.1	-33.2
20231	Pembuatan sabun dan bahan pencuci, penyediaan membersihkan dan mengilat	11.8	13.3	26.1	17.1	2.4	11.3	28.2	15.1
&									
20232	Pembuatan pewangi dan penyediaan dandanan diri								
20291	Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials								
&									
20292	Pembuatan dakwat menulis dan melukis	-8.9	6.5	5.8	17.1	-2.8	7.2	3.9	4.1
&									
20299	Pembuatan produk kimia lain t.t.t.l.								
	Industri lain	-17.4	24.8	5.3	82.6	27.8	5.7	-10.4	-1.2
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	16.2	17.1	19.8	12.7	13.9	22.7	16.7	20.5
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	14.3	21.6	19.9	19.8	23.2	23.3	18.8	18.2
	Industri lain	24.6	-1.0	19.2	-16.5	-17.4	20.0	6.8	32.8
221	Pembuatan produk getah	55.2	36.3	92.3	75.0	17.3	-13.3	95.6	87.4
22111	Pembuatan tayar getah untuk kenderaan	3.0	32.9	33.8	-6.4	67.1	29.9	8.3	12.0
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	40.9	-8.2	53.2	-26.7	-35.5	9.8	60.2	23.4
22191	Pembuatan produk lain daripada getah asli atau sintetik, tidak divulkan, divulkan atau dikeraskan	2.0	-9.6	22.5	-2.4	-28.6	-22.8	5.3	13.9
&									
22193	Pengilangan semula getah dan prosesan susu getah								
22192	Pembuatan sarung tangan getah	89.4	47.9	119.6	103.3	24.7	-17.7	145.7	130.1
22199	Pembuatan produk getah lain yang t.t.t.l.	27.2	23.8	59.5	46.3	1.6	4.3	55.0	50.6
222	Pembuatan produk plastik	2.3	21.0	18.7	31.5	18.0	16.6	11.2	12.6
22201	Pembuatan produk plastik separa siap								
&									
22202	Pembuatan produk plastik siap	12.5	20.9	26.7	27.6	18.5	11.8	22.9	20.9
22203	Pembuatan artikel plastik untuk pembungkusan	1.1	28.3	24.9	33.3	26.9	28.2	14.2	22.5
22204	Pembuatan barangan plastik jurubina	1.2	60.0	24.4	83.2	68.8	65.8	9.8	8.6
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan fondas daripada plastik	18.5	52.6	39.3	70.1	37.0	65.6	44.1	14.1
22209	Pembuatan pelbagai produk plastik t.t.t.l.	-6.4	6.9	4.4	23.8	2.8	-1.4	-4.8	-0.3
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	-27.6	-12.1	-23.7	86.1	-32.0	-23.0	-18.7	-20.4

2021						2022					Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
-3.1	1,164.8	431.5	-44.5	-49.5	-10.8	-6.1	8.8	16.0	16.1	16.5	Manufacture of products of wood, cork, straw and plaiting materials
-18.1	31,138.4	17,447.2	-44.6	-53.0	-9.7	-3.7	16.1	19.9	17.6	13.8	Manufacture of veneer sheets and plywood
14.8	15,822.1	8,146.4	-40.2	-40.3	-7.6	2.1	9.9	22.5	22.3	20.8	Manufacture of particle board and fibreboard
29.2	1,245.5	337.2	-51.8	-52.8	-8.2	-21.6	1.2	4.3	6.4	15.7	Manufacture of builders' carpentry
15.6	69.2	-21.9	-49.4	-56.3	-25.9	-24.6	-14.1	-4.1	3.2	17.5	Other industry
18.6	62.2	28.2	7.2	4.9	11.9	13.2	13.6	15.9	15.2	16.0	Manufacture of paper and paper products
28.3	352.1	160.4	28.1	16.9	27.9	28.1	29.3	21.6	14.7	31.6	Manufacture of pulp, paper and paperboard
35.8	66.5	19.7	-7.2	-3.8	2.9	3.5	3.9	7.3	9.4	1.9	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
-24.6	-9.7	-27.6	-35.1	-7.2	-2.7	-3.5	-3.6	1.4	-5.6	-6.4	Manufacture of envelopes and letter-card
-5.8	22.5	12.7	4.8	4.9	11.4	19.1	20.4	33.1	22.8	35.3	Manufacture of household and personal hygiene paper
9.4	5.1	2.8	44.8	25.9	34.9	27.1	27.8	27.2	29.4	15.6	Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
17.5	44.5	9.6	3.1	1.2	0.05	4.0	2.4	2.0	15.5	8.5	Other industry
7.6	169.9	49.2	-20.1	-21.7	-13.3	-10.2	-9.7	9.8	10.4	7.7	Printing, service activities related to printing and reproduction of recorded media
0.5	156.1	43.6	-21.0	-19.5	-8.2	-5.4	-6.3	9.9	13.2	14.8	Printing
42.8	233.3	71.3	-15.8	-31.6	-35.2	-30.6	-24.1	9.2	-0.9	-15.1	Service activities related to printing
											Reproduction of recorded media
-14.1	46.8	70.9	63.3	75.7	60.8	64.2	64.8	69.1	44.5	46.2	Manufacture of refined petroleum products
1.6	6.9	8.1	15.0	20.2	23.7	11.1	15.4	12.5	9.9	3.1	Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
-54.4	167.2	72.9	59.6	215.5	116.8	5.5	36.4	20.1	-50.1	-55.3	Manufacture of liquefied or compressed inorganic industrial or medical gases
											Manufacture of basic organic chemicals
11.61	-3.60	6.48	13.22	24.3	30.3	13.7	10.4	7.7	5.3	3.1	Manufacture of inorganic compounds
											Manufacture of fertilizers
-5.0	32.9	26.6	1.4	-3.3	0.7	3.1	62.7	53.1	46.7	50.8	Manufacture of associated nitrogen products
-1.0	6.4	-0.7	15.0	6.8	8.2	3.4	13.2	10.5	15.4	-5.2	Manufacture of plastics in primary forms
3.3	30.3	30.5	25.4	43.8	70.8	59.6	23.4	32.8	46.5	64.3	Other industry
24.2	93.8	32.4	12.2	-4.1	7.4	26.6	25.3	22.6	31.8	33.0	Manufacture of other chemical products and man-made fibres
92.3	100.3	46.6	47.0	26.5	3.1	45.8	61.5	18.0	40.3	62.1	Manufacture of pesticides and other agrochemical products
17.3	337.6	129.8	29.3	-14.4	34.1	72.9	78.1	67.1	79.4	79.3	Manufacture of paints, varnishes and similar coatings ink and
-24.9	58.1	11.1	16.5	21.4	22.6	8.9	9.5	8.5	13.5	24.4	Manufacture of printing ink
											Manufacture of soap and detergents, cleaning and polishing preparations
35.6	66.1	2.7	1.8	-10.2	-0.2	17.8	5.8	10.6	17.8	14.0	Manufacture of perfumes and toilet preparations
											Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
9.5	33.6	18.0	3.0	-1.1	-3.0	-4.3	4.9	6.3	10.6	11.4	Manufacture of writing and drawing ink
											Manufacture of other chemical products n.e.c.
34.3	138.8	98.1	41.2	35.7	10.3	38.7	-1.0	5.3	13.3	4.5	Other industry
21.9	16.2	7.8	13.9	10.4	12.3	19.0	21.7	22.1	24.4	24.0	Manufacture of pharmaceuticals, medicinal chemical and botanical products
22.5	17.8	14.0	26.9	22.8	18.5	28.6	23.9	22.5	23.5	24.6	Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
19.2	8.2	-19.3	-29.4	-29.3	-9.9	-12.7	12.5	20.5	28.1	21.0	Other industry
93.4	86.3	73.0	66.0	49.2	5.6	-1.4	-11.3	-11.9	-16.7	-25.8	Manufacture of rubber products
118.0	104.3	-14.3	-44.7	191.8	10.5	1.5	63.2	12.3	13.0	29.1	Manufacture of rubber tyres for vehicles
85.7	124.8	-27.2	-64.5	-62.3	-10.7	-13.0	17.4	17.7	-5.5	-8.0	Manufacture of interchangeable tyre treads and retreading rubber tyres
											Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
55.7	22.0	-2.5	-18.5	-34.5	-27.3	-22.9	-21.5	-21.9	-25.0	-25.9	Rubber remilling and latex processing
99.4	95.6	101.4	114.3	64.1	12.2	2.1	-18.6	-14.4	-19.9	-31.3	Manufacture of rubber gloves
73.6	78.8	46.2	22.9	2.7	2.2	0.1	10.1	2.3	0.6	-10.3	Manufacture of other rubber products n.e.c.
33.3	50.0	31.0	16.9	14.6	20.6	19.0	16.5	16.8	16.3	8.1	Manufacture of plastics products
											Manufacture of semi-manufactures of plastic products
36.7	41.0	22.3	21.2	22.9	16.8	15.9	12.1	13.8	9.7	-5.2	Manufacture of finished plastic products
40.2	58.4	37.3	11.6	26.6	32.7	21.3	25.4	30.5	28.6	19.8	Manufacture of plastic articles for the packing of goods
57.2	87.8	92.6	71.8	57.8	69.9	77.9	65.2	67.9	64.3	45.2	Manufacture of builders' plastics ware
62.6	119.6	95.7	27.0	-13.2	53.6	92.5	68.2	47.6	81.8	67.7	Manufacture of plastic tableware, kitchenware and toilet articles
19.4	39.7	22.2	11.2	1.2	4.2	2.8	-0.5	-0.8	-2.7	-5.8	Manufacture of diverse plastic products n.e.c.
-30.9	172.6	94.1	22.4	-33.1	-40.6	-22.3	-27.1	-17.1	-24.9	-22.5	Manufacture of glass and glass products

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	-16.7	9.6	7.6	64.1	-14.9	6.1	3.7	2.5
23911	Pembuatan mortar refraktori dan konkrit								
&									
23921	Pembuatan seramik bukan refraktori	-23.5	7.0	21.4	69.9	-40.0	1.3	15.9	10.8
23930	Pembuatan produk porselin dan seramik lain	-23.9	35.1	27.1	66.8	25.3	29.4	10.1	12.2
23941	Pembuatan simen hidrolik	-12.4	5.7	15.7	80.0	-32.2	-1.1	13.3	18.2
23951	Pembuatan konkrit dan mortar siap bancuh dan bancuhan kering	-34.1	12.2	-17.1	83.9	1.5	25.4	-14.3	-21.1
23952	Pembuatan konkrit pratuanan, simen atau artikel batu								
&	buatan yang digunakan dalam pembinaan;								
23953	Pembuatan komponen struktur pasang siap untuk	-6.1	6.0	8.1	46.8	-13.6	-0.3	-0.7	1.8
&	bangunan atau kejuruteraan awam dari simen, batu atau								
23959	konkrit buatan								
	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.								
23990	Pembuatan produk mineral bukan logam lain t.t.t.l.	-20.2	27.1	27.7	78.1	12.5	11.4	36.7	14.0
	Industri lain	-16.3	11.6	18.3	35.9	-20.9	23.6	1.9	4.9
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	-12.2	9.0	-4.2	56.4	-7.2	14.5	3.2	-8.2
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	-11.8	7.0	6.8	47.0	-13.6	5.2	-3.7	4.3
243	Pengacuan logam	-11.5	2.0	-20.5	44.5	-18.8	23.8	-14.6	-29.7
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	-18.0	10.5	-0.6	41.6	-0.8	11.9	-2.7	-1.1
25113	Pembuatan pintu, tingkap dan bingkai, penutup tingkap								
&	dan pintu pagar daripada logam								
25119	Pembuatan produk struktur logam lain	-19.6	9.5	-0.7	40.7	0.5	8.6	-2.7	0.0
25120	Pembuatan tangki, takungan dan kontena daripada	-12.0	18.3	3.4	49.5	1.4	26.2	-0.3	1.8
	logam								
	Industri lain	-23.5	-20.9	-23.6	4.7	-35.3	-22.0	-15.5	-36.3
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	-13.7	4.2	0.1	29.3	-15.4	8.3	-1.2	-2.8
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan	-27.1	17.2	-14.6	57.6	20.4	29.7	-19.2	-20.8
	logam; serbuk metalurgi								
25920	Rawatan dan penyalutan logam; menggunakan mesin	-12.6	35.6	32.4	58.5	6.8	50.0	16.6	25.4
25991	Pembuatan tin untuk produk makanan dan minuman,	-16.5	-10.9	-16.7	-8.5	-14.7	-2.9	-14.5	-20.2
	tiub dan kotak boleh dilipat								
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal)								
&	dan artikel seumpamanya daripada logam								
25993	Pembuatan bolt, skru, nat dan produk uliran	-12.7	0.6	7.9	38.6	-31.4	0.3	9.1	5.9
	seumpamanya								
25994	Pembuatan barangan rumah daripada logam	-28.7	51.7	13.2	156.2	43.5	42.3	-12.2	-17.7
25999	Pembuatan produk lain yang direka daripada logam	-2.1	5.5	1.5	32.9	-14.4	6.6	0.6	3.9
	t.t.t.l.								
	Industri lain	-9.1	26.7	17.5	37.1	18.8	34.0	13.4	-6.7
261	Pembuatan komponen dan papan elektronik	2.2	19.3	13.8	25.6	15.9	23.1	6.2	14.4
26101	Pembuatan diod, transistor dan alatan semikonduktor								
&	yang seumpamanya								
26102	Pembuatan litar elektronik bersepadu dengan	2.9	16.6	10.5	22.4	12.3	21.9	5.0	10.1
	pasangan mikro								
26103	Pembuatan kapasitor dan perintang elektrik								
&									
26104	Pembuatan papan litar bercetak	-0.8	23.3	16.9	30.2	22.2	25.3	6.7	19.1
&									
26105	Pembuatan komponen paparan								
26109	Pembuatan komponen lain untuk aplikasi elektronik	32.3	22.1	45.2	31.0	4.8	18.5	30.0	44.9
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	-4.6	4.5	7.9	48.5	-27.3	2.7	4.7	1.3
263/ 26300	Pembuatan peralatan komunikasi	-2.0	-15.5	1.1	-13.1	-34.6	-12.0	2.1	3.1
264/ 26400	Pembuatan peralatan elektronik pengguna	-10.4	8.3	10.0	53.1	-20.8	14.2	7.6	12.6
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	9.8	8.0	14.7	-0.2	-6.5	25.0	15.5	13.0
26511	Pembuatan kelengkapan mengukur, menguji, memandu								
&	arah dan kawalan								
26512	Pembuatan kelengkapan kawalan proses perindustrian	11.4	5.0	12.8	-5.1	-8.3	21.7	15.2	10.2
26520	Pembuatan jam tangan dan jam dan bahagiannya	-2.5	33.7	29.4	49.0	9.6	50.4	18.1	32.6
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	-1.2	24.7	27.8	58.4	28.5	-9.8	40.2	22.2

2021						2022					Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
17.7	324.7	72.5	-13.8	-22.4	-12.9	-9.5	1.5	8.4	7.8	9.3	Manufacture of non-metallic mineral products n.e.c. Manufacture of refractory mortars and concretes
41.1	163.3	79.7	5.4	-56.9	-37.4	-26.6	2.3	5.1	-2.8	-6.9	Manufacture of non-refractory ceramic
79.9	112.5	75.8	26.4	19.5	22.1	33.4	35.3	36.2	18.4	7.6	Manufacture of other porcelain and ceramic products
15.8	718.2	108.4	-26.0	-34.7	-31.2	-30.8	-8.9	2.1	3.2	1.3	Manufacture of hydraulic cement
-15.7	627.6	105.3	-11.2	-17.3	-0.2	22.4	29.9	27.9	19.4	24.6	Manufacture of ready-mix and dry-mix concrete and mortars
											Manufacture of precast concrete, cement or artificial stone articles for use in construction
27.6	254.2	42.7	-15.6	-18.5	-9.4	-13.1	-7.3	-0.4	6.1	9.6	Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone
											Manufacture of other articles of concrete, cement and plaster n.e.c.
33.5	206.8	83.7	16.3	11.7	16.7	9.4	8.9	19.4	6.7	9.6	Manufacture of other non-metallic mineral products n.e.c.
60.7	168.3	50.8	-30.7	-42.8	-22.4	7.4	16.3	33.3	21.7	25.2	Other industry
-7.8	286.1	120.7	-32.5	-36.9	-2.6	14.4	12.9	16.8	13.8	12.4	Manufacture of basic iron and steel
22.7	219.6	82.3	-29.9	-36.0	-8.2	0.9	3.3	4.4	7.7	6.3	Manufacture of basic precious and other non-ferrous metals
-16.3	211.5	36.0	-22.8	-41.7	-8.9	-5.2	9.2	26.8	37.0	16.4	Casting of metals
2.1	159.3	25.9	-3.8	-16.8	-0.4	15.0	14.6	12.6	8.9	18.1	Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition
1.1	165.7	28.2	-13.3	-14.4	-3.2	19.4	12.2	10.0	4.4	20.7	Manufacture of metal doors, windows and their frames, shutters and gates
											Manufacture of other structural metal products
9.2	148.1	25.1	23.5	-19.7	13.8	10.2	28.2	24.1	26.5	14.3	Manufacture of tanks, reservoirs and containers of metal
-19.5	119.2	-6.9	-32.0	-39.0	-37.6	-29.2	-28.0	-19.2	-19.1	-11.0	Other industry
4.7	103.8	30.0	-19.0	-25.9	-18.9	-1.9	8.2	11.2	5.9	2.0	Manufacture of other fabricated metal products; metal working service activities
-2.2	88.7	74.3	18.0	24.1	8.4	29.3	38.8	48.7	9.7	11.6	Forging, pressing, stamping and roll-forming of metal; powder metallurgy
60.2	190.4	30.6	11.8	-12.5	9.4	23.3	52.7	55.5	42.6	11.0	Treatment and coating of metals; machining
-15.4	-4.8	-4.1	-16.0	-25.7	-15.9	-2.8	-5.5	-1.5	-1.6	-0.3	Manufacture of tins and cans for food products, collapsible tubes and boxes
											Manufacture of metal cable, plaited bands and similar articles
8.8	193.8	46.3	-34.5	-44.2	-34.7	-15.7	-0.9	1.9	-0.1	-4.4	Manufacture of bolts, screws, nuts and similar threaded products
84.2	265.7	206.5	24.3	59.4	39.1	33.5	38.7	52.2	36.9	27.7	Manufacture of metal household articles
-0.1	159.1	15.4	-25.8	-23.2	-19.7	-0.8	7.4	5.8	6.5	3.7	Manufacture of any other fabricated metal products n.e.c.
49.7	117.2	26.8	-2.6	16.6	21.9	17.8	28.0	38.0	36.1	37.5	Other industry
21.5	68.7	23.0	3.4	3.4	17.2	27.4	23.3	21.3	24.5	9.7	Manufacture of electronic components and boards
17.1	57.3	17.6	5.1	5.9	14.5	16.6	24.3	20.7	20.9	14.8	Manufacture of diodes, transistors and similar semiconductor devices
											Manufacture of electronic integrated circuits micro assemblies
											Manufacture of electrical capacitors and resistors
25.7	86.7	31.5	0.8	0.6	22.6	44.3	22.5	22.6	30.5	-0.3	Manufacture of printed circuit boards
62.9	90.4	26.6	5.4	-6.2	-1.2	21.4	15.1	16.7	23.7	34.2	Manufacture of display components
											Manufacture of other components for electronic applications
18.4	100.6	59.5	9.2	-18.4	-14.7	-47.8	1.6	0.9	5.6	17.3	Manufacture of computers and peripheral equipment
-1.7	5.5	-20.3	-18.6	-44.9	-34.7	-23.4	-10.9	-7.0	-17.6	-23.5	Manufacture of communication equipment
10.0	162.7	109.8	-9.6	-46.4	-9.1	-8.4	6.5	27.9	9.9	13.9	Manufacture of consumer electronics
15.3	51.1	-5.5	-20.9	-25.0	-9.7	18.5	18.8	27.4	28.3	37.9	Manufacture of measuring, testing, navigating and control equipment; watches and clocks
12.3	46.1	-10.9	-25.1	-28.3	-11.1	18.9	15.5	20.5	27.7	39.4	Manufacture of measuring, testing, navigating and control equipment
39.6	91.8	54.1	20.5	7.5	4.9	15.5	41.9	79.8	33.9	25.4	Manufacture of industrial process control equipment
											Manufacture of watches and clocks and parts
21.4	74.4	38.6	63.8	42.0	12.1	31.3	45.8	-34.2	-41.0	-55.6	Manufacture of irradiation, electromedical and electrotherapeutic equipment

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	4.2	18.7	24.3	34.6	-12.6	35.9	22.3	21.5
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	-1.1	21.4	9.3	47.5	6.7	28.4	7.8	0.4
	27101 Pembuatan motor elektrik, penjana dan transformer	12.3	13.1	16.4	30.4	-1.6	13.2	16.4	9.9
	27102 Pembuatan perkakasan pengagihan dan pengawalan	-8.2	26.7	5.6	59.5	12.3	38.5	3.3	-4.4
272/ 27200	Pembuatan bateri dan akumulator	14.9	-3.7	-6.2	-13.2	-2.1	7.3	-3.1	-17.3
273	Pembuatan pendawaian dan peranti pendawaian	-16.9	26.2	8.5	79.1	15.4	21.2	1.1	7.2
	27310 Pembuatan kabel gentian optikal	-11.2	35.4	6.4	31.6	40.2	61.7	14.8	-7.5
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	-17.8	24.2	7.9	77.3	12.5	18.8	0.6	8.0
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	-2.8	54.9	19.7	135.2	51.0	43.6	2.8	2.4
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	47.5	-2.8	30.5	-7.1	-29.0	15.1	27.2	20.4
275/ 27500	Pembuatan perkakasan domestik	-8.1	9.5	-5.2	49.7	-4.7	13.3	-6.3	-2.6
279/ 27900	Pembuatan kelengkapan elektrik lain	7.4	17.7	20.5	34.1	3.5	17.8	22.1	16.3
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	-0.3	16.2	5.7	35.1	6.8	19.1	3.7	4.3
	28120 Pembuatan alat-alat kuasa bendalir &								
	28130 Pembuatan pam, pemampat, kepala paip dan injap lain	-20.4	25.9	-10.8	87.7	19.8	32.5	-45.1	1.9
	28180 Pembuatan alatan tangan yang menggunakan kuasa & dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatik	11.2	27.7	22.4	44.3	15.7	29.6	18.9	21.2
	28220 Pembuatan jentera pembentukan logam dan alatan mesin								
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	19.4	17.8	24.8	30.4	0.04	20.1	33.5	18.7
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	-10.1 -12.1	-11.4 21.7	-30.1 6.0	-3.0 55.8	-7.6 13.1	-3.8 20.6	-29.2 1.5	-34.7 8.3
291 (29101 & 29102)	Pembuatan kenderaan bermotor	5.6	5.0	18.0	74.3	-29.9	4.6	8.5	10.6
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	51.9	19.1	50.8	29.3	-26.0	41.4	38.7	28.1
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	2.5	5.0	24.0	31.4	-22.9	0.4	7.1	15.1
301 (30110 & 30120)	Pembinaan kapal dan bot	-20.5	50.7	12.7	353.5	44.1	26.6	6.8	29.0
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.	-9.3	-5.9	-6.1	11.3	-25.1	-0.7	-9.7	-16.2
	30910 Pembuatan motosikal	-32.1	-13.2	-41.4	76.1	-18.3	-5.9	-42.6	-50.3
	30920 Pembuatan basikal dan invalid carriages Industri lain	26.1 -6.2	3.4 -6.6	71.1 -0.4	10.1 -5.3	-28.4 -26.0	-6.5 4.9	69.1 -8.1	18.3 5.3
310	Pembuatan perabot	-7.3	-5.7	5.1	33.7	-39.0	-2.9	4.3	2.0
	31001 Pembuatan perabot kayu dan rotan Industri lain	-7.8 -6.2	-21.9 26.3	-4.0 26.8	19.1 58.0	-54.3 -9.9	-27.5 43.7	-4.8 24.4	-3.6 14.2
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	-12.1	1.9	1.8	132.8	-52.2	-6.7	7.3	-3.3
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	3.5	7.0	2.7	14.3	-2.0	14.2	-6.9	0.8
	32901 Pembuatan alat tulis Industri lain	2.6 3.8	12.7 5.2	16.0 -1.4	35.3 7.9	-4.2 -1.3	7.3 16.3	4.0 -10.1	12.9 -2.9
323/ 32300	Pembuatan barangan sukan	20.9	-26.7	2.4	-22.5	-51.8	-26.6	6.1	-9.7
324/ 32400	Pembuatan permainan dan mainan	-31.3	3.8	-14.2	47.8	-17.8	16.0	-30.8	-25.8
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	-11.3	0.04	0.6	29.8	-24.8	8.3	-1.4	-0.9
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal Industri lain	4.1 -17.1	6.2 -2.8	68.0 -16.1	13.0 39.8	-29.6 -22.0	8.4 8.3	113.1 -22.8	39.4 -11.5
Jumlah Pembuatan		-2.1	15.5	8.5	33.9	6.4	16.5	4.1	6.4

2021											2022	Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
29.9	128.3	18.5	7.3	-30.0	-15.3	7.6	39.4	28.1	40.1	22.9		Manufacture of optical instruments, photographic equipment, magnetic and optical media
20.1	126.1	37.9	14.3	-8.1	10.6	17.8	20.4	25.5	40.0	30.5		Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus
22.7	96.5	21.5	1.9	-7.4	-1.2	4.3	4.1	8.2	28.1	25.7		Manufacture of electric motors, generators and transformers
18.6	147.6	48.6	23.0	-8.6	18.9	26.5	31.4	36.8	47.9	33.3		Manufacture of electricity distribution and control apparatus
2.3	1.9	-25.2	-13.2	-12.1	1.7	4.9	1.2	13.9	8.2	13.4		Manufacture of batteries and accumulators
19.1	173.6	86.3	30.3	9.0	16.2	21.0	20.5	22.9	20.3	13.5		Manufacture of wiring and wiring devices
13.2	76.7	43.2	-3.3	56.4	29.0	37.9	51.2	52.3	81.8	22.6		Manufacture of fibre optic cables
16.6	167.9	86.7	28.4	4.9	13.6	19.2	17.5	20.3	18.7	12.5		Manufacture of other electronic and electric wires and cables
68.4	412.4	99.4	77.8	57.3	52.9	42.3	60.5	53.4	18.8	25.4		Manufacture of current -carrying and non current-carrying wiring devices for electrical circuits regardless of material
44.3	123.5	6.4	-46.5	-61.0	-8.0	1.3	20.5	22.4	1.9	12.3		Manufacture of electric lighting equipment
-6.7	75.0	97.8	8.5	-10.5	-2.9	-0.5	6.6	13.2	20.5	14.2		Manufacture of domestic appliances
23.0	150.5	22.1	0.9	-9.0	4.0	15.4	10.2	15.5	28.6	8.9		Manufacture of other electrical equipment
9.3	98.8	37.5	1.4	-13.2	16.7	18.9	19.0	20.7	17.6	16.6		Manufacture of general-purpose and special-purpose machinery
												Manufacture of fluid power equipment
15.2	214.8	88.3	27.1	-27.8	44.1	43.0	40.1	31.0	26.4	37.3		Manufacture of other pumps, compressors, taps and valves
												Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives
27.7	173.9	25.1	8.8	7.4	20.2	21.2	32.5	25.6	30.6	-1.7		Manufacture of metal-forming machinery and machine tools
22.4	75.3	55.0	-5.8	-41.2	23.5	24.1	22.1	18.2	20.1	8.7		Manufacture of air-conditioning machines, including for motor vehicles
-25.9	4.6	2.6	-11.5	-13.3	-5.9	-3.2	-6.0	10.4	-12.6	41.1		Manufacture of other special-purpose machinery n.e.c.
8.0	173.9	50.2	9.2	4.4	14.4	20.4	15.3	22.3	24.3	29.9		Other industry
38.7	5,886.0	132.3	-43.4	-39.9	-38.1	-10.6	9.3	7.7	-2.6	9.7		Manufacture of motor vehicles
88.9	313.6	38.2	-43.3	-45.0	-30.5	4.0	53.9	41.2	30.2	27.4		Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
55.4	149.9	33.2	-22.0	-28.6	-23.4	-15.9	1.4	3.4	-3.6	3.5		Manufacture of parts and accessories for motor vehicles
5.8	3,010.1	1,743.3	70.5	25.1	53.2	52.5	29.3	29.7	20.3	10.4		Building of ships and boats
8.5	148.1	-8.8	-29.1	-32.3	-22.9	-20.3	-6.5	0.2	3.8	-0.9		Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c
-28.8	530.0	63.0	-14.0	-21.4	-17.8	-15.5	-14.3	1.2	-5.5	-11.2		Manufacture of motorcycles
149.3	231.1	7.7	-57.8	-55.4	-17.9	-12.0	-11.3	-7.0	-1.0	-5.7		Manufacture of bicycles and invalid carriages
2.9	74.0	-34.1	-20.9	-23.9	-27.4	-26.4	-0.1	3.5	11.2	6.8		Other industry
8.9	956.3	54.5	-45.0	-60.8	-38.6	-17.8	-9.8	1.0	0.2	8.0		Manufacture of furniture
-3.6	883.6	63.7	-54.8	-67.0	-52.1	-43.9	-37.5	-22.2	-22.4	-9.6		Manufacture of wooden and cane furniture
45.0	1,065.6	44.4	-24.6	-48.9	-12.9	31.5	44.2	44.1	42.9	38.1		Other industry
1.1	1,088.1	212.0	-26.3	-70.1	-64.9	-23.4	-14.3	-1.2	-4.5	-7.9		Manufacture of jewellery, bijouterie and related articles
16.4	79.5	7.4	-15.4	-8.1	-2.5	4.7	15.1	13.0	14.4	15.0		Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.
31.9	148.7	32.8	-10.2	-12.1	2.3	-2.6	4.9	5.3	11.6	0.3		Manufacture of stationery
11.0	62.4	-0.2	-17.2	-6.8	-4.0	6.6	18.3	15.4	15.2	20.1		Other industry
12.0	15.7	-20.7	-48.3	-57.4	-53.4	-44.3	-42.4	-26.8	-6.3	1.2		Manufacture of sports goods
17.9	1,148.4	53.5	-60.6	-22.9	-36.5	6.0	16.4	17.8	13.8	48.7		Manufacture of games and toys
3.8	219.4	52.7	-36.5	-36.6	-29.3	-8.5	1.8	9.8	13.7	9.6		Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment
61.4	153.6	25.7	-43.9	-52.1	-34.2	1.9	-2.5	6.7	23.2	7.1		Repair and maintenance of transport equipment except motorcycles and bicycles
-13.4	270.1	69.1	-32.5	-25.3	-26.7	-14.1	4.2	11.4	9.1	10.9		Other industry
15.3	72.5	37.2	6.5	0.6	6.8	11.6	15.3	18.8	15.5	13.1		Total Manufacturing

Jadual
Table **1.4C** : Nilai Jualan Sektor Pembuatan Mengikut Kumpulan: Perubahan Peratusan Bulanan/Suku Tahunan
: Sales Value of Manufacturing Sector by Group: Monthly/Quarterly Percentage Change

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
101	Pemprosesan dan pengawetan daging	-1.7	0.6	9.6	4.4	9.4	-7.5	-0.8
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	2.5	-3.9	-10.4	6.8	2.3	-7.0	5.0
	10201 Pengetinan ikan, krustasea dan moluska							
	&							
	10202 Pemprosesan dan pengawetan ikan, krustasea dan moluska	1.9	-3.5	-11.0	6.3	1.6	-7.3	5.3
	Industri lain	15.1	-12.7	2.4	17.3	19.1	-2.7	-0.7
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	8.7	-12.0	-17.3	10.5	12.7	-3.7	2.3
	10303 Pengetinan nanas							
	&	44.8	-27.4	-8.6	4.3	6.8	31.4	-15.1
	10304 Pembuatan jem, marmalad dan sajian jeli							
	Industri lain	1.3	-7.4	-19.4	12.1	14.2	-12.2	8.6
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	-23.6	47.8	0.1	4.7	-15.6	-2.5	-2.4
	10404 Pembuatan minyak sayuran mentah dan bertapis							
	&	-1.0	15.4	8.7	-11.8	-0.9	-1.6	7.6
	10406 Pembuatan sebatian lemak masakan							
	10405 Pembuatan minyak kelapa	-2.9	-29.2	-4.9	38.3	-2.3	-5.7	-1.6
	Industri lain	-26.3	53.5	-0.8	6.4	-17.4	-2.6	-3.8
105	Pembuatan produk tenusu	1.7	4.4	-0.4	5.3	7.3	-1.5	2.5
	10502 Pembuatan susu pekat, tepung dan sejat							
		1.4	5.4	0.0	5.3	7.5	-1.9	2.7
	Industri lain	5.0	-6.0	-5.4	4.5	5.2	2.5	-0.1
106	Pembuatan produk bijian, kanji dan produk berkanji	13.4	10.2	-4.2	8.4	11.2	2.2	7.4
	10611 Pengilangan beras	10.2	33.2	-4.4	8.0	13.7	6.2	2.5
	10613 Pengilangan tepung	16.2	-4.0	-4.3	8.3	10.0	-1.0	12.2
	Industri lain	7.0	-10.7	0.9	15.0	6.1	10.2	-7.8
107	Pembuatan produk makanan lain	9.6	-1.8	-1.8	5.6	4.9	5.4	-0.2
	10711 Pembuatan biskut dan cookies	-7.3	-7.5	-10.8	44.6	-13.8	-4.7	9.8
	10712 Pembuatan roti, kek dan produk bakeri lain	14.9	-0.4	-2.2	-8.6	7.9	28.1	-22.9
	10713 Pembuatan produk snek	-0.6	-1.8	-8.6	24.8	-1.0	-2.7	6.4
	10721 Pembuatan gula	15.2	-6.1	2.5	11.3	2.1	13.8	-0.1
	10731 Pembuatan produk koko	-1.6	-10.3	-4.7	7.7	3.6	3.0	-13.8
	10732 Pembuatan coklat dan produk coklat							
	&	10.2	3.3	-4.1	3.3	6.0	-7.7	19.9
	10733 Pembuatan konfeksi gula							
	10793 Pembuatan sos dan bahan perasa	8.4	-2.4	-6.6	25.8	8.9	-4.1	-3.0
	10799 Pembuatan produk makanan lain t.t.t.l.	10.6	-0.9	9.4	4.8	3.5	2.8	8.0
	Industri lain	11.3	-4.1	0.1	8.2	10.0	-3.2	13.0
108/ 10800	Pembuatan makanan haiwan tersedia	5.3	35.7	4.4	-1.4	-3.7	1.3	25.9
110	Pembuatan minuman ringan	16.2	-22.7	-2.1	32.6	8.8	0.1	7.0
	11041 Pembuatan minuman ringan	19.2	-13.7	17.4	7.7	9.8	0.2	4.0
	11042 Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	13.7	-7.3	8.5	-0.7	3.8	13.1	8.2
	Industri lain	12.7	-40.5	-48.0	183.8	8.8	-3.5	11.0
120/ 12000	Pembuatan produk tembakau	-2.4	-38.9	-55.2	316.2	-9.9	-5.8	16.9
131	Pemintalan, penenunan dan penyiapan tekstil	0.6	4.7	-18.4	20.6	-1.4	-1.1	5.3
	13110 Penyediaan dan pemintalan gentian tekstil							
	&	3.1	10.0	-27.9	23.8	-1.4	-0.2	4.1
	13120 Penenunan tekstil							
	13132 Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	-5.4	-11.0	14.1	14.9	-0.8	-2.8	8.9
	Industri lain	-24.8	-4.3	67.1	-11.5	-9.1	-25.0	9.6
139	Pembuatan tekstil lain	3.7	1.1	15.7	7.9	-0.1	-5.1	11.7
	13910 Pembuatan fabrik dikait dan dikrusye	0.4	-3.0	7.1	9.7	-4.2	-4.4	13.7
	Industri lain	7.6	5.6	24.2	6.4	4.6	-5.9	9.6
141	Pembuatan pakaian, kecuali pakaian berbulu	-4.3	-14.3	3.4	17.9	-5.3	-3.0	-4.4
	14102 Pembuatan pakaian	-4.5	-12.4	5.9	13.8	-5.9	-3.1	-3.9
	Industri lain	-3.2	-27.1	-17.9	62.6	-1.0	-2.7	-8.2
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	-1.0	-7.5	-25.3	43.3	-5.3	0.3	-1.6
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan bagasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	4.5	-28.0	-8.7	74.2	3.7	-4.5	5.9
152	Pembuatan kasut	7.5	-31.7	-17.9	40.0	-0.1	-7.1	0.1
	15201 Pembuatan kasut kulit							
	&	7.3	-36.8	-19.2	56.7	3.3	-8.6	9.4
	15203 Pembuatan kasut getah							
	Industri lain	7.9	-23.7	-16.2	19.1	-4.7	-4.8	-13.0
161/ 16100	Pengilangan dan pengetaman kayu	1.3	-35.9	8.9	44.6	-5.0	-6.9	15.3

(%)

2021					2022					Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
-0.9	6.4	1.8	-2.3	14.0	-1.7	-2.8	7.7	-2.9	4.8	Processing and preserving of meat
-1.9	-7.2	6.3	-12.3	2.0	-2.0	7.0	1.4	-1.3	-1.8	Processing and preserving of fish, crustaceans and molluscs Canning of fish, crustaceans and molluscs
-1.4	-7.5	6.5	-12.9	2.0	-2.3	6.5	1.8	-1.5	-1.8	Processing, curing and preserving of fish, crustacean and molluscs
-10.9	-1.0	0.1	-0.3	3.0	3.0	16.9	-5.0	2.4	-2.4	Other industry
-1.7	-14.6	-3.3	-8.9	-3.5	1.5	6.5	6.4	-0.8	13.9	Processing and preserving of fruits and vegetable
										Pineapple canning
-3.6	-30.0	-12.4	5.3	15.1	-2.3	-0.2	10.3	-14.4	11.9	Manufacture of jams, marmalades and table jellies
-1.2	-10.4	-1.3	-11.6	-7.8	2.6	8.3	5.5	2.8	14.3	Other industry
44.8	0.6	12.6	-12.9	-0.2	18.9	-3.3	-2.5	-4.5	-13.1	Manufacture of vegetable and animal oils and fats
										Manufacture of crude and refined vegetable oil
10.3	0.3	0.03	1.8	-0.4	21.0	-20.7	-2.7	0.8	3.1	Manufacture of compound cooking fats
-21.6	9.6	-36.3	21.7	8.3	-3.7	34.6	5.0	-2.1	9.4	Manufacture of coconut oil
51.0	0.6	14.4	-14.5	-0.3	18.8	-1.5	-2.5	-5.1	-14.9	Other industry
3.4	-2.7	5.3	-9.5	11.1	-0.5	2.5	1.7	-4.6	8.0	Manufacture of dairy products
										Manufacture of condensed, powdered and evaporated milk
4.0	-2.6	5.8	-9.6	11.8	-1.1	2.7	2.0	-4.9	8.1	Other industry
-4.1	-3.6	-1.1	-7.6	2.4	8.3	0.1	-2.3	-0.6	7.2	Other industry
6.9	-7.0	7.5	-9.8	0.5	10.4	5.4	-5.4	-0.6	9.3	Manufacture of grain mill products, starches and starch products
29.3	-3.5	5.5	-12.6	1.0	18.3	5.6	-13.7	1.9	8.2	Rice milling
-7.1	-10.0	9.4	-7.1	-0.8	3.3	5.7	2.1	-2.6	11.4	Flour milling
-3.9	-10.9	8.0	-10.6	12.3	8.8	-0.4	10.4	-4.0	-4.8	Other industry
-0.8	-7.4	7.6	-5.2	-0.2	4.1	4.7	-2.8	0.6	5.2	Manufacture of other food products
18.4	-37.4	-1.9	5.3	1.2	6.6	22.4	17.6	2.9	12.2	Manufacture of biscuits and cookies
3.4	4.1	10.4	-8.7	2.7	-7.8	-0.4	-5.6	-0.5	6.1	Manufacture of bread, cakes and other bakery products
4.7	-13.3	-0.7	-14.4	8.4	19.8	7.6	0.3	1.2	2.6	Manufacture of snack products
-3.2	-17.9	18.1	-4.1	-6.8	22.7	0.4	-2.0	1.9	2.8	Manufacture of sugar
2.6	-4.8	-3.1	-2.4	2.2	-0.03	7.8	1.4	-5.3	11.1	Manufacture of cocoa products
										Manufacture of chocolate and chocolate products
-0.4	-9.8	3.9	-2.2	-2.8	2.4	7.7	-8.1	2.2	7.2	Manufacture of sugar confectionery
2.6	-1.0	-2.8	-10.2	4.0	10.9	13.1	4.3	-0.5	-4.7	Manufacture of sauces and condiments
-6.6	-2.1	3.9	3.2	4.0	4.2	3.3	-4.1	0.8	10.8	Manufacture of other food products n.e.c.
-11.2	-7.1	17.9	-8.8	-3.5	10.6	2.7	-0.5	0.3	-1.6	Other industry
14.9	1.8	0.8	4.5	-1.6	-0.4	-2.3	2.0	1.3	6.2	Manufacture of prepared animal feeds
-4.3	-18.2	-39.2	15.7	36.8	14.9	17.5	-8.7	0.2	6.7	Manufacture of beverages
0.6	-24.0	-1.9	15.9	35.5	-22.5	23.8	-9.4	1.1	-2.9	Manufacture of soft drinks
0.8	-22.1	-4.8	14.6	15.4	-7.6	2.3	-0.7	-5.5	0.3	Production of natural mineral waters and other bottled waters
-12.8	-7.3	-99.3	24.1	1,086.7	830.9	13.0	-10.1	0.8	26.5	Other industry
-19.2	-16.5	-69.5	6.8	-30.5	151.9	191.0	-16.1	16.4	-14.9	Manufacture of tobacco products
-0.1	-2.4	10.0	-19.4	-6.3	0.3	12.1	13.1	2.7	-0.3	Spinning, weaving and finishing of textiles
										Preparation and spinning of textile fibres
4.6	1.3	4.8	-26.8	-2.7	-9.6	12.2	28.3	0.8	-0.4	Weaving of textiles
-13.9	-15.8	32.8	5.0	-18.3	29.5	13.1	-15.8	9.2	-0.1	Dyeing, bleaching, printing and finishing of yarns and fabrics
-0.2	-0.8	2.0	-0.9	119.1	-17.3	-11.2	-7.6	-10.4	-3.8	Other industry
-4.8	-2.3	6.0	9.9	2.3	1.5	5.2	-0.6	3.8	0.3	Manufacture of other textiles
-12.7	1.5	7.9	1.2	-4.0	9.2	7.7	-7.6	8.2	-3.5	Manufacture of knitted and crocheted fabrics
4.1	-5.8	4.1	19.1	7.9	-4.7	3.0	6.1	0.1	3.6	Other industry
-5.5	-6.5	-3.7	5.6	3.5	1.2	14.1	0.4	3.4	-3.1	Manufacture of wearing apparel, except fur apparel
-4.8	-7.5	1.5	7.2	1.5	-1.7	13.1	-1.0	5.8	-5.0	Manufacture of clothings
-10.8	1.3	-39.8	-13.8	32.8	33.3	22.3	11.1	-13.0	12.3	Other industry
12.1	1.3	-52.0	24.9	-5.8	19.9	23.1	5.4	5.5	-2.2	Manufacture of articles of fur, knitted and crocheted apparel
										Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur
-14.7	-5.0	-44.6	-3.6	47.8	33.9	24.5	7.9	-0.8	1.3	
-18.9	-13.3	-16.7	-8.9	11.3	0.4	30.8	2.3	4.4	1.9	Manufacture of footwear
										Manufacture of leather footwear
-25.3	-19.8	-17.4	-11.2	16.2	5.6	38.1	4.4	4.4	3.9	Manufacture of rubber footwear
-7.5	-3.8	-15.9	-6.1	5.9	-5.9	20.8	-1.0	4.5	-1.5	Other industry
-19.9	-25.9	-33.1	12.5	72.8	-5.1	19.6	7.0	7.6	8.8	Sawmilling and planing of wood

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	5.9	-40.7	14.6	57.9	2.3	-4.4	9.3
16211	Pembuatan kepingan venier dan papan lapis	8.3	-42.8	17.2	62.5	0.5	-3.9	12.7
16212	Pembuatan papan partikel dan papan gentian	3.4	-35.0	21.9	44.2	3.2	-7.5	9.1
16221	Pertukangan kayu untuk jurubina	6.0	-48.0	7.0	76.5	2.9	0.9	2.7
	Industri lain	2.6	-38.2	-8.5	63.7	7.1	-4.5	2.5
170	Pembuatan kertas dan produk kertas	5.2	3.3	1.4	4.2	2.9	0.9	15.4
17010	Pembuatan pulpa, kertas dan kertas tebal	5.4	5.5	3.5	5.9	-0.1	-0.1	14.3
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	-0.7	-0.6	1.7	6.3	2.8	-0.4	18.3
17091	Pembuatan sampul surat dan kad surat	-1.1	-3.9	0.2	2.0	-5.5	-3.3	12.9
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	12.1	5.8	0.4	5.3	-1.2	4.5	13.3
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	19.8	15.4	1.8	-9.0	8.8	6.3	22.9
	Industri lain	5.8	-2.4	-3.3	6.4	18.1	-4.3	-0.6
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	-0.3	-18.5	0.9	26.2	2.4	-3.9	-2.5
18110	Percetakan	-5.4	-16.2	9.2	22.0	-2.5	-4.3	-0.5
18120	Aktiviti perkhidmatan berkaitan percetakan							
&								
18200	Penerbitan semula media rakaman	21.3	-26.0	-29.7	50.2	22.1	-2.7	-8.9
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	7.1	32.0	8.7	3.4	3.7	-10.4	5.3
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	15.5	-15.0	12.0	2.2	3.0	-1.2	4.2
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	74.4	-2.4	-26.4	-38.1	3.8	-3.4	-33.5
20112	Pembuatan kimia organik asas							
&								
20113	Pembuatan sebatian bukan organik	14.6	-19.9	20.9	-3.1	0.3	-0.9	3.8
20121	Pembuatan baja							
&								
20129	Pembuatan produk campuran nitrogen	22.5	-1.3	-13.0	46.2	1.8	8.0	5.6
20131	Pembuatan plastik dalam bentuk primer	10.3	-13.0	7.5	9.5	6.2	-3.5	10.0
	Industri lain	21.8	-0.1	23.8	-10.8	15.8	2.1	4.2
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	6.3	-4.5	6.6	17.0	3.5	-2.4	12.6
20210	Pembuatan racun perosak dan produk agrokimia lain	13.7	-6.5	4.6	23.7	3.2	-3.8	9.0
20221	Pembuatan cat, varnis dan penyadur dan mastik	15.3	5.5	0.9	42.4	4.6	-1.5	30.1
20222	Pembuatan dakwat cetak	7.6	3.1	-6.2	6.3	5.0	-2.4	5.7
20231	Pembuatan sabun dan bahan pencuci, penyediaan							
&	membersih dan mengilat	2.8	-12.7	18.5	4.6	3.5	-4.4	10.4
20232	Pembuatan pewangi dan penyediaan dandanan diri							
20291	Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials							
&								
20292	Pembuatan dakwat menulis dan melukis	0.1	-2.0	-3.3	13.0	2.0	0.0	1.8
&								
20299	Pembuatan produk kimia lain t.t.t.l.							
	Industri lain	12.1	3.9	14.1	-20.5	8.7	3.5	8.8
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	8.1	6.8	6.4	-0.1	5.6	6.1	8.0
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	10.2	10.3	3.9	-2.4	8.3	4.6	7.6
	Industri lain	-1.1	-10.3	21.3	11.5	-6.3	13.5	9.8
221	Pembuatan produk getah	20.1	18.1	-26.3	-17.0	10.1	-7.6	47.5
22111	Pembuatan bayer getah untuk kenderaan	-8.4	-13.7	118.9	-25.0	-13.2	6.8	7.3
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	5.7	-10.7	-8.0	26.6	7.5	-8.7	10.7
22191	Pembuatan produk lain daripada getah asli atau sintetik, tidak divulkan, divulkan atau dikeraskan	-1.8	-6.8	-21.2	7.1	-6.6	-1.8	13.7
22193	Pengilangan semula getah dan prosesan susu getah							
22192	Pembuatan sarung tangan getah	27.7	25.5	-34.3	-21.8	15.3	-9.9	60.9
22199	Pembuatan produk getah lain yang t.t.t.l.	8.9	-0.2	-9.8	6.4	7.4	-2.2	8.6
222	Pembuatan produk plastik	6.7	9.5	-1.3	1.0	3.4	-2.6	11.9
22201	Pembuatan produk plastik separa siap							
&		10.6	12.4	-4.6	-5.7	7.8	-3.3	10.8
22202	Pembuatan produk plastik siap							
22203	Pembuatan artikel plastik untuk pembungkusan barangan	8.1	5.9	8.2	3.5	9.1	-5.8	9.1
22204	Pembuatan barangan plastik jurubina	17.2	26.6	14.1	-2.1	9.6	-9.6	40.3
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	10.4	19.4	6.9	17.5	15.2	-13.5	27.3
22209	Pembuatan pelbagai produk plastik t.t.t.l.	0.9	6.4	-9.4	1.3	-7.4	3.9	10.3
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	6.8	-23.8	-33.9	43.0	-0.2	-6.3	1.5

2021					2022					Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
-22.6	-35.4	-14.0	-4.6	72.3	18.6	12.9	11.5	3.2	2.7	Manufacture of products of wood, cork, straw and plaiting materials
-27.2	-37.7	-6.1	-13.4	85.1	21.7	11.3	14.0	2.3	-2.7	Manufacture of veneer sheets and plywood
-16.2	-33.0	-12.5	6.4	51.1	25.7	3.8	8.8	4.6	2.0	Manufacture of particle board and fibreboard
-23.8	-37.2	-40.0	18.8	93.8	-4.1	46.4	3.4	4.1	11.8	Manufacture of builders' carpentry
-16.8	-30.6	-23.2	-14.8	69.5	5.6	22.2	16.8	2.0	22.0	Other industry
-2.1	-6.4	0.2	-1.7	7.1	1.7	2.3	0.01	-4.6	3.6	Manufacture of paper and paper products
-1.9	-0.8	-2.4	-0.5	9.6	-0.8	11.5	-9.9	-2.4	14.6	Manufacture of pulp, paper and paperboard
-0.2	-9.8	-13.3	10.3	7.5	1.5	5.8	0.6	-9.6	-4.2	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
-10.5	3.7	-6.3	-1.8	4.2	7.3	-2.0	-3.5	1.2	-6.2	Manufacture of envelopes and letter-card
-0.7	-8.8	9.0	-8.7	6.8	7.5	-8.0	10.2	0.1	8.9	Manufacture of household and personal hygiene paper
-12.9	-3.1	49.3	-22.1	7.5	-6.1	-7.1	0.4	-1.6	-2.8	Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
1.3	-0.2	-5.1	-1.2	-1.0	6.2	1.9	0.7	0.2	11.0	Other industry
-0.2	-12.0	-26.4	16.6	16.7	3.8	1.2	23.1	1.2	-0.1	Printing, service activities related to printing and reproduction of recorded media
0.4	-13.4	-20.8	19.1	18.9	3.2	-0.5	19.4	2.1	-1.1	Printing
-2.3	-7.1	-44.7	5.1	5.0	7.8	11.0	42.3	-2.9	4.7	Service activities related to printing
										Reproduction of recorded media
30.9	2.6	-1.6	11.9	-2.3	-3.3	0.8	12.4	-6.5	4.9	Manufacture of refined petroleum products
-22.8	2.4	17.4	1.8	3.1	-10.6	1.7	4.9	11.5	-3.4	Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
23.2	2.2	16.9	-1.2	-33.2	-49.1	2.8	8.1	36.2	-7.0	Manufacture of liquefied or compressed inorganic industrial or medical gases
-30.5	9.5	17.6	6.2	7.6	-15.0	-3.4	6.6	14.0	-1.8	Manufacture of basic organic chemicals
-0.5	-8.8	-2.6	-11.1	3.5	1.3	39.1	-1.1	11.4	4.7	Manufacture of inorganic compounds
-21.7	-3.1	24.1	-3.7	-2.1	-1.7	7.3	2.7	6.5	-12.8	Manufacture of fertilizers
0.5	-7.2	2.9	12.9	19.5	-6.7	-21.7	12.5	11.6	29.9	Manufacture of associated nitrogen products
-7.46	-6.0	1.0	-6.7	15.6	14.2	-0.1	1.1	6.1	4.4	Manufacture of other chemical products and man-made fibres
-3.9	-14.8	10.7	-1.1	4.8	3.5	9.7	4.1	16.8	19.2	Manufacture of pesticides and other agrochemical products
-0.4	-7.6	-16.0	-24.0	56.0	32.0	5.7	-2.2	7.1	4.5	Manufacture of paints, varnishes and similar coatings ink and
6.4	-11.9	7.1	-2.4	-1.2	-10.1	6.3	10.5	2.5	15.1	Manufacture of printing ink
-17.8	-4.7	13.3	-3.8	14.1	15.4	-11.1	1.2	6.7	0.1	Manufacture of soap and detergents, cleaning and polishing preparations
-1.4	-1.8	-1.8	-0.3	-1.3	-1.0	11.6	4.2	-1.2	2.8	Manufacture of perfumes and toilet preparations
-5.8	2.2	5.2	22.7	-20.3	10.5	-18.2	-8.0	12.4	0.2	Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
-4.5	-3.8	21.3	-9.2	4.4	5.0	-2.5	-1.4	-3.5	5.3	Manufacture of writing and drawing ink
-1.7	-2.1	20.9	-10.0	1.4	5.7	-4.0	-1.5	-4.5	9.2	Manufacture of other chemical products n.e.c.
-17.5	-12.9	24.0	-3.8	21.3	1.5	4.6	-1.2	0.6	-11.5	Other industry
0.2	-7.9	0.1	-6.4	-28.5	-0.5	-1.4	-4.5	-4.2	-2.0	Manufacture of pharmaceuticals, medicinal chemical and botanical products
-2.6	-18.6	-17.5	365.6	-61.8	-6.5	56.1	-32.9	-0.3	-0.8	Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
0.9	-6.5	-33.3	3.3	29.2	5.2	16.6	7.2	-21.3	4.7	Other industry
-11.8	-7.5	8.8	-20.9	-7.1	4.9	8.7	-3.2	0.01	-7.83	Manufacture of rubber products
1.6	-7.3	-0.2	-17.5	-27.1	-0.9	-9.8	-0.3	-5.1	-1.0	Manufacture of rubber tyres for vehicles
-0.1	-9.8	6.1	-10.9	0.4	1.7	8.9	-3.6	-3.4	-4.2	Manufacture of interchangeable tyre treads and retreading rubber tyres
5.9	-5.2	1.3	-2.5	4.7	-2.6	0.3	0.9	1.0	-3.9	Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
7.2	-3.4	4.4	-3.6	-4.0	-0.2	-3.2	-1.6	-0.2	-6.9	Rubber remilling and latex processing
5.3	-5.1	0.7	8.7	6.0	-8.9	5.7	3.9	-1.2	1.6	Manufacture of rubber gloves
4.9	-4.6	11.7	-1.8	8.7	10.8	-11.2	0.6	0.1	-3.1	Manufacture of other rubber products n.e.c.
9.2	-7.8	10.9	-20.7	39.5	6.6	4.3	-10.3	16.3	6.3	Manufacture of plastics products
4.5	-6.4	-4.2	-6.7	5.0	-2.8	-1.0	3.9	-0.1	-10.4	Manufacture of semi-manufactures of plastic products
-11.6	-6.3	-27.2	-18.5	-7.9	29.8	6.0	24.5	2.0	3.0	Manufacture of finished plastic products
										Manufacture of plastic articles for the packing of goods
										Manufacture of builders' plastics ware
										Manufacture of plastic tableware, kitchenware and toilet articles
										Manufacture of diverse plastic products n.e.c.

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	5.9	-20.0	-7.0	34.5	3.2	-6.0	5.0
23911 & 23921	Pembuatan mortar refraktori dan konkrit	20.3	-30.6	-39.8	101.5	8.5	-7.2	5.7
23930	Pembuatan produk porselin dan seramik lain	16.9	-3.2	-3.0	17.8	6.8	0.3	-2.1
23941	Pembuatan simen hidrolik	1.2	-18.9	-21.6	53.8	-1.1	-2.4	4.0
23951	Pembuatan konkrit dan mortar siap bancuh dan banchuan kering	5.1	-17.9	5.9	37.1	-1.5	-6.3	6.3
23952 & 23953 & 23959	Pembuatan konkrit pratuangan, simen atau artikel batu buatan yang digunakan dalam pembinaan; Pembuatan komponen struktur pasang siap untuk bangunan atau kejuruteraan awam dari simen, batu atau konkrit buatan Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.	2.5	-21.2	-0.9	24.4	3.3	-8.0	4.0
23990	Pembuatan produk mineral bukan logam lain t.t.t.l. Industri lain	19.4 22.1	-16.6 -25.9	3.9 -5.3	7.8 44.2	18.5 9.9	-8.3 -0.6	9.6 9.8
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	-4.0	-20.7	15.6	30.1	4.6	-13.0	2.6
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	0.2	-23.8	2.4	34.6	-1.8	2.3	0.0
243	Pengacuan logam	-0.9	3.0	-9.9	34.7	5.4	-7.5	7.7
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	5.1	-13.0	-5.7	29.8	2.8	-11.9	3.5
25113 & 25119	Pembuatan pintu, tingkap dan bingkai, penutup tingkap dan pintu pagar daripada logam	6.4	-17.4	-0.8	24.6	3.4	-13.4	3.6
25120	Pembuatan produk struktur logam lain							
25120	Pembuatan tangki, takungan dan kontena daripada logam	3.9	0.1	-16.3	45.0	2.1	-4.9	0.7
	Industri lain	-13.2	-15.0	-15.5	25.1	-4.4	-28.4	29.1
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	7.2	-11.6	-16.6	37.0	3.3	-5.2	1.3
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan logam; serbuk metalurgi	18.3	-4.4	-11.0	28.7	-1.1	-10.3	10.6
25920	Rawatan dan penyalutan logam; menggunakan mesin	40.1	-15.9	-11.9	44.5	23.4	5.1	6.4
25991	Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat	-3.9	-10.9	-3.1	17.1	-1.0	-8.7	-0.9
25992 & 25993	Pembuatan kabel, plaited bands (jalur/pita berpintal) dan artikel seumpamanya daripada logam	8.3	-22.5	-23.6	56.3	6.3	-4.3	-2.5
25994	Pembuatan barangan rumah daripada logam	54.9	11.3	-17.6	0.1	14.9	1.8	71.0
25999	Pembuatan produk lain yang direka daripada logam t.t.t.l.	-2.7	5.6	-22.4	33.6	-4.1	-3.3	-2.3
	Industri lain	11.6	11.4	-6.8	15.6	18.1	-23.9	42.4
261	Pembuatan komponen dan papan elektronik	4.5	-7.9	20.8	5.9	-0.4	0.6	2.8
26101 & 26102	Pembuatan diod, transistor dan alatan semikonduktor yang seumpamanya	0.8	-7.1	16.4	11.8	-1.0	-5.4	4.2
26103 & 26104 & 26105	Pembuatan kapasitor dan perintang elektrik							
26104 & 26105	Pembuatan papan litar bercetak	11.7	-10.0	28.2	-2.8	1.5	10.2	0.4
26109	Pembuatan komponen paparan	-9.9	3.8	10.8	14.3	-12.0	-1.0	10.5
	Pembuatan komponen lain untuk aplikasi elektronik							
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	-2.0	12.4	-29.7	32.7	-7.7	8.6	6.2
263/ 26300	Pembuatan peralatan komunikasi	-3.5	-19.8	-4.9	19.6	-4.5	-10.6	5.8
264/ 26400	Pembuatan peralatan elektronik pengguna	-4.1	-9.9	2.5	28.9	-2.4	-0.4	0.3
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	-6.7	-13.1	24.8	23.6	-3.4	-28.3	13.1
26511 & 26512	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan	-7.8	-14.2	27.3	20.9	-3.5	-31.1	14.4
26520	Pembuatan jam tangan dan jam dan bahagiannya	1.8	-5.2	8.5	43.7	-2.4	-5.0	4.9
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	18.4	9.9	2.3	-32.2	20.3	-16.0	9.4

2021										2022										Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.											
-10.4	-8.1	-20.7	2.1	12.8	5.0	13.5	13.3	4.2	4.7	Manufacture of non-metallic mineral products n.e.c.										
-22.2	-2.2	-31.8	-44.5	49.4	21.1	40.9	15.6	7.7	3.9	Manufacture of refractory mortars and concretes										
4.2	-0.5	-16.6	-5.8	19.5	9.8	3.4	2.3	-0.2	-2.9	Manufacture of non-refractory ceramic										
-5.5	-9.9	-30.0	0.6	5.6	1.6	32.7	17.3	2.8	-2.9	Manufacture of other porcelain and ceramic products										
-11.8	-4.9	-16.9	0.6	20.7	19.6	6.0	13.7	-0.3	2.8	Manufacture of hydraulic cement										
-11.0	-9.3	-16.5	8.7	11.1	-1.4	7.2	14.9	8.7	6.6	Manufacture of ready-mix and dry-mix concrete and mortars										
-14.0	-2.8	-12.9	11.7	4.5	0.8	6.1	0.2	-1.6	21.7	Manufacture of precast concrete, cement or artificial stone articles for use in construction										
-9.8	-26.5	-19.8	-5.2	38.0	12.9	11.8	10.4	4.8	13.0	Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone										
										Manufacture of other articles of concrete, cement and plaster n.e.c.										
										Manufacture of other non-metallic mineral products n.e.c.										
										Other industry										
0.2	-18.3	-22.6	-4.2	58.8	31.4	-1.6	-1.7	-0.5	3.4	Manufacture of basic iron and steel										
-6.8	-20.0	-20.8	-9.4	52.1	19.6	4.2	2.5	3.0	-3.0	Manufacture of basic precious and other non-ferrous metals										
21.8	-6.9	-41.2	-0.1	45.5	12.0	6.2	4.8	8.0	-10.4	Casting of metals										
0.5	-6.0	-24.1	-2.2	21.7	12.5	7.8	3.1	8.8	11.5	Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition										
0.2	-7.2	-34.3	16.7	15.1	20.1	1.4	1.5	10.7	19.7	Manufacture of metal doors, windows and their frames, shutters and gates										
2.6	-3.1	2.3	-34.0	43.4	-5.8	28.1	5.9	5.1	-7.8	Manufacture of other structural metal products										
-10.3	-4.0	-22.0	-5.9	6.1	11.7	1.8	16.3	3.3	5.2	Manufacture of tanks, reservoirs and containers of metal										
6.8	-11.3	-30.1	-4.0	13.6	21.5	11.5	4.0	5.0	-0.4	Other industry										
0.5	-0.2	-22.5	-0.1	0.8	17.4	8.2	8.4	3.7	0.5	Manufacture of other fabricated metal products; metal working service activities										
-4.0	-19.0	-16.7	-11.9	24.9	14.8	20.1	3.7	1.4	-3.9	Forging, pressing, stamping and roll-forming of metal; powder metallurgy										
-1.1	-10.5	1.8	-14.7	15.0	17.3	-3.6	5.0	4.7	0.2	Treatment and coating of metals; machining										
-4.8	0.4	-48.2	-1.5	20.8	28.7	20.9	3.1	6.6	1.7	Manufacture of tins and cans for food products, collapsible tubes and boxes										
1.2	-5.4	-54.7	58.2	-4.9	-1.5	-1.4	5.0	2.9	7.2	Manufacture of metal cable, plaited bands and similar articles										
49.8	-30.8	-30.4	1.7	8.8	24.7	9.4	2.1	5.8	-6.6	Manufacture of bolts, screws, nuts and similar threaded products										
11.3	-9.2	-20.5	10.4	5.6	-3.3	13.3	3.7	0.1	19.3	Manufacture of metal household articles										
-11.8	-2.9	12.9	2.9	7.5	12.5	-5.1	-2.9	9.0	-12.3	Manufacture of any other fabricated metal products n.e.c.										
-10.0	-3.9	15.8	3.4	1.2	8.4	5.3	-2.6	6.5	-6.0	Other industry										
-14.4	-2.1	9.4	3.1	16.9	17.2	-17.8	-3.6	13.3	-22.5	Manufacture of electronic components and boards										
-8.6	6.9	6.0	-10.2	12.2	21.4	-5.2	1.6	5.2	-4.5	Manufacture of diodes, transistors and similar semiconductor devices										
20.1	-23.9	13.7	-16.7	-7.1	-32.0	91.6	-13.8	9.8	2.5	Manufacture of electronic integrated circuits micro assemblies										
-26.4	-5.1	39.3	-29.9	5.0	24.6	1.9	0.9	-0.4	-11.4	Manufacture of electrical capacitors and resistors										
-7.6	-4.7	2.1	-32.9	71.8	9.3	7.0	1.7	-8.4	1.2	Manufacture of printed circuit boards										
-11.1	-3.9	12.8	-2.4	21.6	12.8	-1.5	-0.6	29.5	3.8	Manufacture of display components										
-11.7	-3.5	12.5	-1.9	25.3	11.2	-4.7	-2.4	37.6	5.3	Manufacture of other components for electronic applications										
-7.1	-6.1	14.7	-5.1	-2.7	26.2	22.5	9.5	-12.0	-8.6	Manufacture of computers and peripheral equipment										
-1.5	-4.2	45.3	-10.1	-20.6	18.8	6.6	-58.5	3.8	-9.5	Manufacture of communication equipment										
										Manufacture of consumer electronics										
										Manufacture of measuring, testing, navigating and control equipment; watches and clocks										
										Manufacture of measuring, testing, navigating and control equipment										
										Manufacture of industrial process control equipment										
										Manufacture of watches and clocks and parts										
										Manufacture of irradiation, electromedical and electrotherapeutic equipment										

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	-10.0	3.5	-3.2	50.7	-2.8	-5.3	-4.5
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	-4.2	10.6	4.0	16.5	1.2	-10.8	16.1
	27101 Pembuatan motor elektrik, penjana dan transformer	-11.4	8.2	7.6	9.7	-6.3	-10.9	15.1
	27102 Pembuatan perkakasan pengagihan dan pengawalan	0.6	12.1	1.9	20.6	6.2	-10.8	16.8
272/ 27200	Pembuatan bateri dan akumulator	-21.9	25.2	20.8	-9.1	5.4	-26.4	8.7
273	Pembuatan pendawaian dan peranti pendawaian	-2.9	7.7	3.6	11.9	0.7	-6.0	2.1
	27310 Pembuatan kabel gentian optikal	3.4	-0.1	36.1	15.1	10.6	-13.2	8.0
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	-4.1	6.7	3.1	12.6	-0.1	-5.7	0.8
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	15.3	24.4	-0.8	1.0	9.4	-7.0	19.5
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	-12.2	6.9	4.0	17.9	-4.5	-13.1	18.4
275/ 27500	Pembuatan perkakasan domestik	-7.5	1.1	4.9	15.5	-2.6	-3.3	-2.8
279/ 27900	Pembuatan kelengkapan elektrik lain	-9.7	15.0	4.4	8.6	1.8	-13.4	6.4
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	-1.6	19.7	-5.6	7.1	-3.7	0.5	3.9
	28120 Pembuatan alat-alat kuasa bendalir							
	&							
	28130 Pembuatan pam, pemampat, kepala paip dan injap lain	-1.7	22.2	-9.3	21.6	-35.8	64.4	12.5
	28180 Pembuatan alatan tangan yang menggunakan kuasa							
	&							
	dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatik	12.1	24.1	-10.5	4.0	18.5	-3.3	-3.8
	28220 Pembuatan jentera pembentukan logam dan alatan mesin							
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	1.8	13.8	-6.4	10.8	15.0	-9.9	3.6
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l.	-24.6	35.4	-7.6	2.0	-37.2	3.9	8.9
	Industri lain	-1.8	13.5	2.7	5.4	-7.9	4.4	7.0
291 (29101 & 29102)	Pembuatan kenderaan bermotor	-26.9	-17.3	5.4	64.2	-30.1	-4.7	6.4
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	7.7	13.8	-27.1	58.1	2.4	-14.1	38.1
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	-2.1	-10.2	-11.6	29.1	-8.3	-0.1	17.0
301 (30110 & 30120)	Pembinaan kapal dan bot	-3.0	-5.3	7.9	27.8	1.2	-3.2	8.9
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.	0.8	-14.8	-17.3	39.8	3.4	-14.2	23.6
	30910 Pembuatan motosikal	12.1	-10.4	-29.5	33.0	3.0	-9.6	14.3
	30920 Pembuatan basikal dan invalid carriages	-11.1	-20.3	-6.3	40.8	0.2	-31.1	47.6
	Industri lain	2.9	-14.2	-16.3	42.1	5.4	-7.1	18.0
310	Pembuatan perabot	-4.3	-31.3	-11.0	65.9	0.0	-9.3	7.8
	31001 Pembuatan perabot kayu dan rotan	-5.9	-40.5	-21.5	65.1	-3.7	-7.0	9.4
	Industri lain	-1.3	-14.6	2.3	66.7	7.1	-13.3	4.7
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	5.0	4.3	-57.3	99.6	15.6	-15.7	4.5
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	2.4	-1.0	2.7	9.6	-0.5	-2.4	6.5
	32901 Pembuatan alat tulis	18.1	1.5	-15.3	5.6	12.1	-0.8	18.3
	Industri lain	-2.5	-1.9	9.7	10.8	-4.3	-2.9	2.3
323/ 32300	Pembuatan barangan sukan	-17.1	5.0	-37.4	34.8	-7.7	1.0	16.7
324/ 32400	Pembuatan permainan dan mainan	-12.3	6.7	-12.2	41.2	-22.6	-2.6	47.4
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	-2.7	-21.0	4.1	35.3	2.0	-7.1	22.6
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	-6.1	-22.2	10.7	34.1	5.3	-20.4	50.7
	Industri lain	-0.9	-20.4	0.9	36.0	0.4	-0.2	11.1
Jumlah Pembuatan		0.5	2.6	1.1	11.8	-1.4	-3.6	7.2

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
8.2	-12.7	30.8	-31.9	21.4	26.8	30.2	-12.4	7.9	-14.8		Manufacture of optical instruments, photographic equipment, magnetic and optical media
8.9	-10.7	9.6	-11.9	21.1	3.2	4.8	-0.7	9.3	-5.7		Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus
8.5	-14.8	15.5	-1.0	7.9	-2.4	4.8	-2.9	17.7	-8.1		Manufacture of electric motors, generators and transformers
9.1	-8.3	6.5	-18.2	30.4	6.4	4.8	0.5	4.9	-4.3		Manufacture of electricity distribution and control apparatus
22.4	-6.7	40.1	-6.6	16.9	-11.3	2.1	-5.7	-14.1	10.5		Manufacture of batteries and accumulators
8.7	-2.9	5.3	-4.1	5.8	4.6	7.6	-0.8	-1.2	-4.9		Manufacture of wiring and wiring devices
8.5	-14.3	4.7	37.7	-2.9	9.2	10.3	-13.5	29.1	-25.4		Manufacture of fibre optic cables
8.6	-2.5	4.1	-5.2	7.3	5.4	7.1	-0.9	-0.4	-5.4		Manufacture of other electronic and electric wires and cables
											Manufacture of current -carrying and non current-carrying wiring devices for electrical circuits regardless of material
9.8	-4.6	20.1	-3.5	-7.5	-7.5	13.2	6.8	-22.2	15.5		
7.0	-12.6	7.9	-23.8	45.2	12.1	25.5	-30.7	-4.5	5.2		Manufacture of electric lighting equipment
8.0	-7.6	5.1	-1.3	8.9	-1.0	9.1	2.9	5.1	-7.7		Manufacture of domestic appliances
12.6	-3.3	16.1	-15.9	14.9	10.1	-3.8	-1.2	7.1	-13.7		Manufacture of other electrical equipment
19.9	-9.3	11.2	-21.5	23.8	0.02	0.6	-0.1	-1.0	-4.6		Manufacture of general-purpose and special-purpose machinery
											Manufacture of fluid power equipment
8.2	-11.0	-4.1	-41.7	100.4	-0.3	7.3	-8.5	0.8	-30.2		Manufacture of other pumps, compressors, taps and valves
											Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives
31.0	-5.3	5.9	-8.4	-6.4	0.3	9.8	-5.5	1.0	-10.8		Manufacture of metal-forming machinery and machine tools
19.6	-13.6	18.6	-43.3	89.0	-6.5	-0.7	2.2	-10.1	4.1		Manufacture of air-conditioning machines, including for motor vehicles
25.5	-17.8	46.1	-22.9	-1.2	4.3	-1.5	-1.0	5.4	1.4		Manufacture of other special-purpose machinery n.e.c.
11.0	-3.5	-3.9	-2.8	11.7	5.6	-6.7	5.9	3.6	-3.8		Other industry
-0.1	-14.7	-33.3	32.5	0.5	37.5	29.2	9.2	-6.4	-21.3		Manufacture of motor vehicles
24.0	-21.8	-26.4	-15.1	7.4	34.7	30.8	0.5	-6.9	0.2		Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
-7.4	-8.4	-22.1	4.6	7.6	-3.4	27.4	5.4	-6.6	-1.6		Manufacture of parts and accessories for motor vehicles
8.0	-31.2	20.2	-10.1	22.5	16.1	19.1	-7.8	-10.2	-7.1		Building of ships and boats
-3.9	-22.8	-13.6	-10.2	16.9	2.6	15.4	21.2	-1.9	-1.3		Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c
2.2	-12.8	-28.8	-6.7	2.1	-0.9	8.5	30.7	4.5	-3.2		Manufacture of motorcycles
-7.0	-12.1	-54.2	9.6	86.5	6.2	11.3	2.1	5.3	-4.6		Manufacture of bicycles and invalid carriages
-5.1	-33.0	23.2	-16.4	0.3	2.0	20.8	28.9	-7.7	1.2		Other industry
-24.3	-2.4	-28.1	-27.4	57.5	33.7	15.4	10.2	-0.8	7.9		Manufacture of furniture
-35.5	-2.8	-28.0	-28.1	46.3	16.6	18.2	20.3	0.6	12.2		Manufacture of wooden and cane furniture
-2.9	-1.8	-28.2	-26.6	71.3	51.8	13.2	1.6	-2.2	3.4		Other industry
35.3	-9.6	-47.0	-58.3	27.2	121.9	10.9	13.9	-2.7	11.6		Manufacture of jewellery, bijouterie and related articles
2.1	-4.6	-9.8	3.5	9.0	6.4	1.5	-0.8	4.3	0.02		Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.
-4.1	-0.7	-13.3	-10.6	17.6	-18.0	11.3	2.0	4.9	0.8		Manufacture of stationery
4.7	-6.1	-8.5	8.8	6.3	14.8	-0.9	-1.6	4.1	-0.2		Other industry
6.2	-2.9	-27.4	-27.3	3.7	18.7	1.0	26.7	0.5	-0.3		Manufacture of sports goods
10.7	-4.5	-65.1	89.1	-18.3	67.5	11.1	-0.7	-2.9	1.2		Manufacture of games and toys
-9.5	-31.7	-2.3	3.6	10.3	30.3	6.1	11.7	-8.1	-1.7		Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment
-12.7	-38.5	-0.9	4.9	9.2	61.1	-7.5	9.9	-2.4	-8.4		Repair and maintenance of transport equipment except motorcycles and bicycles
-7.7	-28.1	-3.0	3.0	10.9	16.0	14.8	12.6	-11.0	2.1		Other industry
2.9	-6.1	1.3	-3.6	5.5	6.9	3.9	1.2	1.1	-3.4		Total Manufacturing

Jadual
Table **1.5a** : Bilangan Pekerja Bergaji Sektor Pembuatan Mengikut Kumpulan
: Number of Paid Employees of Manufacturing Sector by Group

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
101	Pemprosesan dan pengawetan daging	12,814	12,960	13,127	12,857	13,232	12,814	13,037	13,006	13,491	12,960
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	15,575	15,912	16,475	15,905	15,933	15,575	16,315	15,839	15,917	15,912
	10201 & 10202 Pengetinan ikan, krustasea dan moluska	13,406	13,320	13,950	13,692	13,671	13,406	13,913	13,579	13,478	13,320
	Industri lain	2,169	2,592	2,525	2,213	2,261	2,169	2,402	2,260	2,439	2,592
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	11,201	10,179	11,631	12,237	11,266	11,201	11,339	11,265	10,290	10,179
	10303 & 10304 Pengetinan nanas	1,115	551	1,045	1,038	1,115	1,115	1,129	1,109	546	551
	Industri lain	10,085	9,628	10,586	11,200	10,151	10,085	10,210	10,156	9,744	9,628
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	77,283	79,500	78,905	80,319	79,604	77,283	77,416	77,731	79,380	79,500
	10404 & 10406 Pembuatan minyak sayuran mentah dan bertapis	3,633	3,832	3,780	3,533	3,659	3,633	3,686	3,657	3,657	3,832
	10405 Pembuatan minyak kelapa	2,356	2,424	2,336	2,344	2,354	2,356	2,388	2,363	2,362	2,424
	Industri lain	71,293	73,243	72,788	74,442	73,591	71,293	71,342	71,711	73,361	73,243
105	Pembuatan produk tenusu	12,943	13,179	13,124	13,309	13,439	12,943	13,757	13,848	13,864	13,179
	10502 Pembuatan susu pekat, tepung dan sejat	9,487	9,781	9,768	9,689	9,851	9,487	10,152	10,194	10,245	9,781
	Industri lain	3,456	3,398	3,356	3,620	3,588	3,456	3,604	3,654	3,619	3,398
106	Pembuatan produk bijian, kanji dan produk berkanji	10,286	10,808	10,627	10,306	10,329	10,286	10,535	10,530	10,852	10,808
	10611 Pengilangan beras	4,638	4,849	4,838	4,715	4,762	4,638	4,881	4,832	5,157	4,849
	10613 Pengilangan tepung	4,630	4,889	4,693	4,613	4,611	4,630	4,640	4,710	4,729	4,889
	Industri lain	1,017	1,070	1,097	978	956	1,017	1,014	988	966	1,070
107	Pembuatan produk makanan lain	115,937	123,320	115,858	116,324	116,925	115,937	121,149	121,787	122,231	123,320
	10711 Pembuatan biskut dan cookies	12,112	14,344	11,802	12,110	12,289	12,112	11,993	11,983	11,983	14,344
	10712 Pembuatan roti, kek dan produk bakeri lain	28,158	30,260	29,805	28,496	28,624	28,158	28,682	30,085	30,498	30,260
	10713 Pembuatan produk snek	8,757	8,428	9,020	8,910	8,743	8,757	8,860	8,815	8,428	8,428
	10721 Pembuatan gula	1,823	1,765	2,041	2,047	1,818	1,823	1,818	1,799	1,822	1,765
	10731 Pembuatan produk koko	2,714	2,576	2,808	2,954	2,965	2,714	2,679	2,634	2,603	2,576
	10732 & 10733 Pembuatan coklat dan produk coklat	8,727	8,033	9,448	9,010	8,989	8,727	8,676	8,561	8,433	8,033
	10793 Pembuatan sos dan bahan perasa	8,441	9,997	8,110	8,368	8,456	8,441	9,512	9,316	9,413	9,997
	10799 Pembuatan produk makanan lain t.t.t.l.	12,699	13,664	11,563	12,032	12,179	12,699	14,596	14,380	14,432	13,664
	Industri lain	32,506	34,254	31,262	32,398	32,862	32,506	34,333	34,213	34,619	34,254
108/ 10800	Pembuatan makanan haiwan tersedia	17,920	14,893	19,028	18,858	19,003	17,920	17,733	17,700	15,829	14,893
110	Pembuatan minuman ringan	15,681	15,951	18,029	15,968	15,917	15,681	16,115	15,637	16,029	15,951
	11041 Pembuatan minuman ringan	10,302	10,302	11,857	10,480	10,399	10,302	10,327	10,195	10,108	10,302
	11042 Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	4,144	3,995	4,626	4,228	4,238	4,144	4,227	3,960	4,063	3,995
	Industri lain	1,234	1,653	1,547	1,260	1,280	1,234	1,560	1,482	1,859	1,653
120/ 12000	Pembuatan produk tembakau	1,160	1,199	1,618	979	1,076	1,160	1,412	1,151	1,196	1,199
131	Pemintalan, penenunan dan penyiapan tekstil	13,348	13,289	14,524	14,020	13,556	13,348	13,445	13,081	13,173	13,289
	13110 & 13120 Penyediaan dan pemintalan gentian tekstil	9,775	9,209	10,137	10,008	9,904	9,775	9,712	9,494	9,252	9,209
	13132 Penenunan tekstil	2,880	3,647	3,578	3,280	2,906	2,880	3,054	3,055	3,373	3,647
	Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	693	433	809	732	746	693	679	532	548	433
139	Pembuatan tekstil lain	13,350	14,450	14,178	13,754	13,629	13,350	13,939	13,946	14,120	14,450
	13910 Pembuatan fabrik dikait dan dikrusye	5,321	5,901	5,639	5,405	5,428	5,321	5,448	5,592	5,721	5,901
	Industri lain	8,030	8,548	8,539	8,349	8,201	8,030	8,492	8,354	8,400	8,548
141	Pembuatan pakaian, kecuali pakaian berbulu	40,706	41,493	53,364	48,369	42,449	40,706	40,980	39,166	38,661	41,493
	14102 Pembuatan pakaian	29,245	30,181	40,554	36,534	30,868	29,245	29,357	28,689	28,387	30,181
	Industri lain	11,461	11,312	12,811	11,835	11,581	11,461	11,623	10,477	10,273	11,312
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	1,213	981	1,677	1,311	1,204	1,213	1,161	1,152	963	981
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan bagasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	5,675	6,113	5,699	5,407	5,512	5,675	5,720	5,553	5,918	6,113
152	Pembuatan kasut	6,159	6,175	6,628	6,428	6,125	6,159	6,295	6,073	6,067	6,175
	15201 & 15203 Pembuatan kasut kulit	3,469	3,399	3,773	3,521	3,378	3,469	3,486	3,312	3,238	3,399
	Industri lain	2,690	2,776	2,854	2,907	2,746	2,690	2,809	2,760	2,829	2,776
161/ 16100	Pengilangan dan pengetaman kayu	24,555	25,587	26,509	24,284	24,685	24,555	24,769	22,858	25,401	25,587

2021												2022		Group Description/Period
Jan.	Feb.	Mar	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
13,270	13,165	13,037	13,035	13,041	13,006	12,996	12,918	13,491	13,120	13,068	12,960	13,438	Processing and preserving of meat	
16,365	16,388	16,315	16,127	15,947	15,839	15,858	15,745	15,917	15,785	15,681	15,912	16,312	Processing and preserving of fish, crustaceans and molluscs Canning of fish, crustaceans and molluscs	
13,871	13,942	13,913	13,758	13,609	13,579	13,495	13,399	13,478	13,344	13,152	13,320	13,735	Processing, curing and preserving of fish, crustacean and molluscs	
2,494	2,447	2,402	2,370	2,338	2,260	2,363	2,346	2,439	2,441	2,529	2,592	2,577	Other industry	
11,652	11,497	11,339	11,403	11,272	11,265	11,362	10,436	10,290	10,063	9,990	10,179	10,668	Processing and preserving of fruits and vegetable Pineapple canning	
1,151	1,140	1,129	1,114	1,112	1,109	1,103	550	546	545	537	551	527	Manufacture of jams, marmalades and table jellies	
10,501	10,357	10,210	10,289	10,160	10,156	10,259	9,886	9,744	9,518	9,453	9,628	10,141	Other industry	
77,593	77,611	77,416	77,445	77,719	77,731	78,412	78,352	79,380	77,830	79,039	79,500	79,650	Manufacture of vegetable and animal oils and fats Manufacture of crude and refined vegetable oil	
3,591	3,594	3,686	3,656	3,685	3,657	3,657	3,663	3,657	3,657	3,826	3,832	3,776	Manufacture of compound cooking fats	
2,366	2,385	2,388	2,372	2,363	2,363	2,340	2,359	2,362	2,362	2,428	2,424	2,442	Manufacture of coconut oil	
71,636	71,631	71,342	71,417	71,671	71,711	72,415	72,329	73,361	71,811	72,785	73,243	73,433	Other industry	
13,531	13,646	13,757	13,896	13,855	13,848	13,799	13,853	13,864	13,236	13,176	13,179	12,995	Manufacture of dairy products	
10,077	10,117	10,152	10,222	10,191	10,194	10,174	10,252	10,245	9,767	9,765	9,781	9,570	Manufacture of condensed, powdered and	
3,454	3,529	3,604	3,674	3,664	3,654	3,625	3,601	3,619	3,468	3,411	3,398	3,425	Other industry	
10,592	10,528	10,535	10,501	10,548	10,530	10,517	10,620	10,852	10,806	10,725	10,808	10,872	Manufacture of grain mill products, starches and starch products	
4,935	4,890	4,881	4,836	4,854	4,832	4,821	4,991	5,157	5,116	4,882	4,849	4,954	Rice milling	
4,613	4,608	4,640	4,652	4,703	4,710	4,715	4,687	4,729	4,708	4,808	4,889	4,895	Flour milling	
1,044	1,030	1,014	1,013	991	988	981	942	966	982	1,035	1,070	1,023	Other industry	
120,777	121,010	121,149	121,472	120,666	121,787	122,035	121,830	122,231	121,961	123,360	123,320	126,212	Manufacture of other food products	
12,108	12,052	11,993	12,107	11,940	11,983	11,870	11,854	11,983	12,308	14,468	14,344	14,445	Manufacture of biscuits and cookies	
28,656	28,679	28,682	29,196	29,021	30,085	30,156	30,285	30,498	30,053	30,196	30,260	30,572	Manufacture of bread, cakes and other bakery	
9,045	8,952	8,860	8,804	8,769	8,815	8,760	8,731	8,428	8,362	8,389	8,428	8,466	Manufacture of snack products	
1,814	1,816	1,818	1,806	1,801	1,799	1,793	1,815	1,822	1,770	1,735	1,765	1,762	Manufacture of sugar	
2,712	2,695	2,679	2,655	2,622	2,634	2,641	2,610	2,603	2,519	2,555	2,576	2,590	Manufacture of cocoa products	
													Manufacture of chocolate and chocolate products	
8,793	8,742	8,676	8,661	8,625	8,561	8,493	8,484	8,433	8,490	8,030	8,033	7,858	Manufacture of sugar confectionery	
9,656	9,581	9,512	9,470	9,401	9,316	9,274	9,316	9,413	9,463	9,868	9,997	10,313	Manufacture of sauces and condiments	
14,006	14,504	14,596	14,383	14,317	14,380	14,471	14,164	14,432	14,300	13,720	13,664	15,099	Manufacture of other food products n.e.c.	
33,987	33,989	34,333	34,391	34,171	34,213	34,578	34,573	34,619	34,697	34,399	34,254	35,109	Other industry	
17,699	17,728	17,733	17,794	17,766	17,700	18,037	15,819	15,829	15,484	15,071	14,893	14,973	Manufacture of prepared animal feeds	
15,982	16,067	16,115	15,961	15,845	15,637	15,622	15,995	16,029	15,759	15,759	15,951	16,109	Manufacture of beverages	
10,257	10,293	10,327	10,252	10,185	10,195	10,065	10,070	10,108	10,113	10,143	10,302	10,288	Manufacture of soft drinks	
4,204	4,216	4,227	4,165	4,124	3,960	4,091	4,064	4,063	3,901	3,986	3,995	4,029	Production of natural mineral waters and other bottled waters	
1,521	1,558	1,560	1,544	1,536	1,482	1,466	1,861	1,859	1,746	1,629	1,653	1,793	Other industry	
1,243	1,429	1,412	1,153	1,157	1,151	1,113	1,061	1,196	1,198	1,199	1,199	1,288	Manufacture of tobacco products	
13,250	13,410	13,445	13,427	13,458	13,081	12,925	13,160	13,173	13,295	13,064	13,289	13,133	Spinning, weaving and finishing of textiles Preparation and spinning of textile fibres	
9,672	9,757	9,712	9,686	9,671	9,494	9,371	9,276	9,252	9,215	9,216	9,209	9,003	Weaving of textiles	
2,852	2,951	3,054	3,070	3,070	3,055	3,122	3,244	3,373	3,548	3,415	3,647	3,639	Dyeing, bleaching, printing and finishing of yarns and fabrics	
727	702	679	671	717	532	432	640	548	532	433	433	491	Other industry	
13,997	13,856	13,939	13,967	14,243	13,946	13,938	13,942	14,120	14,090	14,464	14,450	14,477	Manufacture of other textiles	
5,484	5,470	5,448	5,496	5,613	5,592	5,595	5,576	5,721	5,751	5,863	5,901	5,941	Manufacture of knitted and crocheted fabrics	
8,513	8,385	8,492	8,471	8,630	8,354	8,343	8,366	8,400	8,339	8,601	8,548	8,536	Other industry	
40,744	40,988	40,980	40,804	41,302	39,166	38,873	39,261	38,661	38,498	41,287	41,493	41,677	Manufacture of wearing apparel, except fur apparel	
29,105	29,335	29,357	29,329	29,885	28,689	28,505	28,850	28,387	28,141	30,074	30,181	29,823	Manufacture of clothings	
11,639	11,654	11,623	11,475	11,417	10,477	10,368	10,410	10,273	10,357	11,214	11,312	11,854	Other industry	
1,162	1,183	1,161	1,157	1,152	1,152	1,149	961	963	930	965	981	1,009	Manufacture of articles of fur, knitted and crocheted apparel	
5,684	5,762	5,720	5,718	5,754	5,553	5,443	5,692	5,918	6,090	6,122	6,113	6,089	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur	
6,339	6,441	6,295	6,324	6,327	6,073	5,985	5,940	6,067	6,145	6,186	6,175	6,411	Manufacture of footwear	
													Manufacture of leather footwear	
3,553	3,595	3,486	3,529	3,543	3,312	3,293	3,261	3,238	3,335	3,396	3,399	3,581	Manufacture of rubber footwear	
2,786	2,846	2,809	2,795	2,784	2,760	2,692	2,678	2,829	2,810	2,790	2,776	2,830	Other industry	
24,817	24,852	24,769	24,984	24,965	22,858	24,440	24,881	25,401	25,365	25,505	25,587	25,901	Sawmilling and planning of wood	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	66,572	67,877	71,607	67,758	67,975	66,572	65,389	65,967	67,726	67,877
16211	Pembuatan kepingan venier dan papan lapis	37,402	37,770	42,709	38,814	38,768	37,402	36,056	36,327	38,302	37,770
16212	Pembuatan papan partikel dan papan gentian	6,938	6,751	7,637	7,046	6,974	6,938	6,979	6,513	6,360	6,751
16221	Pertukangan kayu untuk jurubina	11,223	11,216	10,638	11,107	11,324	11,223	11,560	11,892	11,920	11,216
	Industri lain	11,010	12,141	10,623	10,791	10,909	11,010	10,794	11,235	11,144	12,141
170	Pembuatan kertas dan produk kertas	54,294	56,213	57,106	52,828	53,264	54,294	55,320	54,235	54,814	56,213
17010	Pembuatan pulpa, kertas dan kertas tebal	8,193	8,792	8,089	7,920	8,036	8,193	8,308	8,058	8,132	8,792
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	21,987	22,313	23,073	20,996	21,518	21,987	22,190	22,041	22,055	22,313
17091	Pembuatan sampul surat dan kad surat	1,804	1,697	1,981	1,764	1,786	1,804	1,858	1,811	1,787	1,697
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	10,360	10,976	11,260	10,248	10,213	10,360	10,459	10,350	10,366	10,976
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	6,705	7,192	7,314	6,674	6,503	6,705	7,194	6,800	7,256	7,192
	Industri lain	5,245	5,243	5,389	5,227	5,209	5,245	5,312	5,174	5,217	5,243
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	65,015	67,428	66,434	63,311	63,738	65,015	65,618	63,077	62,499	67,428
18110	Percetakan	52,308	54,714	53,924	50,676	50,974	52,308	52,886	50,851	50,324	54,714
18120	Aktiviti perkhidmatan berkaitan percetakan &	12,707	12,714	12,511	12,636	12,764	12,707	12,733	12,226	12,175	12,714
18200	Penerbitan semula media rakaman										
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	16,623	17,093	18,013	15,901	16,311	16,623	17,207	16,812	17,148	17,093
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	50,632	46,703	55,301	48,601	49,921	50,632	49,516	47,941	48,207	46,703
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	6,726	5,496	7,456	6,394	6,540	6,726	7,226	7,174	7,312	5,496
20112 &	Pembuatan kimia organik asas	16,622	18,092	17,091	15,957	16,248	16,622	16,731	16,380	16,537	18,092
20113	Pembuatan sebatian bukan organik										
20121 &	Pembuatan baja	11,002	9,123	11,537	10,507	10,762	11,002	11,372	10,368	10,481	9,123
20129	Pembuatan produk campuran nitrogen										
20131	Pembuatan plastik dalam bentuk primer	13,911	11,283	16,930	13,427	14,003	13,911	11,713	11,622	11,441	11,283
	Industri lain	2,372	2,710	2,289	2,315	2,368	2,372	2,474	2,397	2,436	2,710
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	50,796	54,990	54,136	50,638	51,320	50,796	55,458	53,701	53,091	54,990
20210	Pembuatan racun perosak dan produk agrokimia lain	3,426	4,044	3,407	3,416	3,456	3,426	3,912	3,852	3,826	4,044
20221	Pembuatan cat, varnis dan penyadur dan mastik	10,113	9,483	11,685	10,278	10,087	10,113	12,081	10,065	9,795	9,483
20222	Pembuatan dakwat cetak	3,946	4,911	4,018	4,006	4,023	3,946	4,856	4,893	4,893	4,911
20231 &	Pembuatan sabun dan bahan pencuci, penyediaan membersih dan mengilat	20,518	20,535	20,756	19,982	20,800	20,518	20,838	21,010	20,643	20,535
20232	Pembuatan pewangi dan penyediaan dandanan diri										
20291 &	Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials										
20292 &	Pembuatan dakwat menulis dan melukis	12,280	15,564	13,759	12,455	12,458	12,280	13,272	13,379	13,436	15,564
20299	Pembuatan produk kimia lain t.t.t.l.										
	Industri lain	514	454	510	501	496	514	499	502	497	454
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	23,344	25,092	20,994	23,540	23,751	23,344	23,420	26,265	26,547	25,092
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan	16,629	18,048	14,985	16,766	16,948	16,629	16,716	18,571	18,614	18,048
	Industri lain	6,714	7,044	6,009	6,773	6,803	6,714	6,704	7,694	7,932	7,044
221	Pembuatan produk getah	121,606	122,498	118,149	119,860	121,348	121,606	122,761	127,350	125,645	122,498
22111	Pembuatan tayar getah untuk kenderaan	7,319	7,048	8,190	7,792	7,657	7,319	7,227	7,869	6,885	7,048
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	2,147	2,209	2,140	2,297	2,185	2,147	2,066	1,945	2,046	2,209
22191 &	Pembuatan produk lain daripada getah asli atau sintetik, tidak divulkan, divulkan atau dikeraskan	18,011	16,796	17,557	18,064	18,262	18,011	17,964	17,930	17,343	16,796
22193	Pengilangan semula getah dan prosesan susu getah										
22192	Pembuatan sarung tangan getah	63,169	63,232	61,631	62,547	62,555	63,169	63,932	67,375	67,256	63,232
22199	Pembuatan produk getah lain yang t.t.t.l.	30,960	33,212	28,631	29,160	30,689	30,960	31,573	32,231	32,114	33,212
222	Pembuatan produk plastik	154,318	153,940	149,699	153,332	154,603	154,318	155,602	155,262	152,014	153,940
22201 &	Pembuatan produk plastik separa siap										
22202	Pembuatan produk plastik siap	35,653	33,803	33,520	34,296	35,645	35,653	35,213	35,656	34,467	33,803
22203	Pembuatan artikel plastik untuk pembungkusan barangan	46,609	48,456	44,498	46,483	46,888	46,609	46,979	47,228	46,712	48,456
22204	Pembuatan barangan plastik jurubina	3,338	3,345	3,569	3,351	3,332	3,338	3,463	3,327	3,332	3,345
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	12,867	12,961	12,027	12,638	12,871	12,867	13,249	13,124	12,920	12,961
22209	Pembuatan pelbagai produk plastik t.t.t.l.	55,851	55,375	56,085	56,564	55,867	55,851	56,698	55,927	54,582	55,375
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	17,853	18,828	18,226	17,758	17,755	17,853	18,144	17,782	17,490	18,828

2021												2022	Group Description/Period
Jan.	Feb.	Mar	Apr.	May	Jun	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	
67,192	66,363	65,389	65,106	67,657	65,967	66,545	66,584	67,726	67,613	68,602	67,877	67,971	Manufacture of products of wood, cork, straw and plaiting materials
37,144	36,608	36,056	35,781	37,475	36,327	36,914	37,159	38,302	37,726	38,045	37,770	37,144	Manufacture of veneer sheets and plywood
6,957	6,968	6,979	6,938	6,940	6,513	6,490	6,440	6,360	6,450	6,696	6,751	6,880	Manufacture of particle board and fibreboard
11,803	11,691	11,560	11,694	11,913	11,892	11,847	11,837	11,920	12,021	11,401	11,216	11,224	Manufacture of builders' carpentry
11,289	11,097	10,794	10,693	11,329	11,235	11,293	11,148	11,144	11,416	12,460	12,141	12,723	Other industry
55,040	55,359	55,320	54,957	54,800	54,235	53,891	53,894	54,814	55,655	56,618	56,213	56,584	Manufacture of paper and paper products
8,234	8,271	8,308	8,218	8,182	8,058	8,055	7,984	8,132	8,720	8,785	8,792	8,814	Manufacture of pulp, paper and paperboard
22,014	22,128	22,190	22,026	22,029	22,041	21,294	21,579	22,055	22,407	22,432	22,313	22,280	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
1,888	1,873	1,858	1,819	1,814	1,811	1,804	1,794	1,787	1,773	1,711	1,697	1,746	Manufacture of envelopes and letter-card
10,546	10,506	10,459	10,430	10,368	10,350	10,298	10,254	10,366	10,337	11,223	10,976	11,052	Manufacture of household and personal hygiene paper
6,861	7,183	7,194	7,133	7,117	6,800	7,231	7,187	7,256	7,192	7,195	7,192	7,232	Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
5,497	5,398	5,312	5,332	5,291	5,174	5,209	5,096	5,217	5,226	5,272	5,243	5,460	Other industry
65,218	65,262	65,618	63,679	63,844	63,077	62,788	62,872	62,499	65,050	67,089	67,428	67,482	Printing, service activities related to printing and reproduction of recorded media
52,551	52,566	52,886	51,263	51,435	50,851	50,608	50,627	50,324	52,451	54,398	54,714	54,758	Printing
12,667	12,696	12,733	12,416	12,410	12,226	12,181	12,244	12,175	12,600	12,691	12,714	12,724	Service activities related to printing
													Reproduction of recorded media
16,790	16,792	17,207	16,752	16,759	16,812	17,135	17,138	17,148	17,060	16,982	17,093	17,035	Manufacture of refined petroleum products
49,507	49,469	49,516	48,366	48,155	47,941	48,372	48,356	48,207	47,951	46,707	46,703	46,975	Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber
7,293	7,260	7,226	7,226	7,136	7,174	7,260	7,264	7,312	7,243	5,504	5,496	5,652	Manufacture of liquefied or compressed inorganic industrial or medical gases
16,822	16,776	16,731	16,637	16,612	16,380	16,632	16,613	16,537	16,634	17,993	18,092	18,105	Manufacture of basic organic chemicals
11,337	11,304	11,372	10,394	10,377	10,368	10,545	10,554	10,481	10,370	9,222	9,123	9,231	Manufacture of inorganic compounds
11,616	11,665	11,713	11,706	11,615	11,622	11,549	11,515	11,441	11,274	11,307	11,283	11,210	Manufacture of fertilizers
2,438	2,465	2,474	2,403	2,414	2,397	2,386	2,410	2,436	2,430	2,680	2,710	2,777	Manufacture of associated nitrogen products
													Manufacture of plastics in primary forms
52,650	52,560	55,458	53,088	53,548	53,701	53,114	52,958	53,091	54,577	55,293	54,990	55,367	Manufacture of other chemical products and man-made fibres
4,134	4,022	3,912	3,902	3,854	3,852	3,846	3,822	3,826	3,848	4,005	4,044	4,066	Manufacture of pesticides and other agrochemical
10,471	10,150	12,081	10,108	10,074	10,065	10,073	9,989	9,795	9,821	9,603	9,483	9,832	Manufacture of paints, varnishes and similar
3,946	3,949	4,856	4,790	4,802	4,893	4,902	4,890	4,893	4,796	4,914	4,911	4,918	Manufacture of printing ink
20,672	20,755	20,838	20,552	21,060	21,010	20,604	20,545	20,643	20,604	20,680	20,535	20,543	Manufacture of soap and detergents, cleaning and polishing preparations
													Manufacture of perfumes and toilet preparations
													Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
12,918	13,181	13,272	13,239	13,261	13,379	13,189	13,211	13,436	15,011	15,635	15,564	15,544	Manufacture of writing and drawing ink
													Manufacture of other chemical products n.e.c.
509	504	499	497	496	502	500	500	497	497	457	454	464	Other industry
23,328	23,477	23,420	26,421	26,220	26,265	26,471	26,721	26,547	26,387	25,048	25,092	24,691	Manufacture of pharmaceuticals, medicinal chemical and botanical products
16,602	16,762	16,716	18,728	18,593	18,571	18,706	18,849	18,614	18,662	18,112	18,048	17,532	Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
6,726	6,715	6,704	7,694	7,628	7,694	7,765	7,872	7,932	7,725	6,937	7,044	7,159	Other industry
122,565	121,922	122,761	127,930	127,583	127,350	126,402	125,912	125,645	125,212	122,967	122,498	125,135	Manufacture of rubber products
7,433	7,330	7,227	7,868	7,887	7,869	6,925	6,910	6,885	6,839	6,925	7,048	7,166	Manufacture of rubber tyres for vehicles
2,145	2,104	2,066	2,134	2,056	1,945	1,955	2,013	2,046	2,085	2,235	2,209	2,218	Manufacture of interchangeable tyre treads and retreading rubber tyres
													Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
18,074	17,851	17,964	18,257	18,010	17,930	18,092	17,962	17,343	17,133	16,836	16,796	16,928	Rubber remilling and latex processing
63,233	63,109	63,932	66,952	67,031	67,375	67,244	67,042	67,256	66,857	63,588	63,232	65,383	Manufacture of rubber gloves
31,679	31,528	31,573	32,720	32,599	32,231	32,186	31,986	32,114	32,299	33,384	33,212	33,441	Manufacture of other rubber products n.e.c.
156,350	155,614	155,602	157,585	157,137	155,262	154,029	153,404	152,014	152,499	153,703	153,940	152,343	Manufacture of plastics products
35,674	35,337	35,213	36,530	36,348	35,656	34,894	34,573	34,467	34,547	33,870	33,803	33,435	Manufacture of semi-manufactures of plastic products
47,579	47,144	46,979	47,556	47,488	47,228	46,731	46,636	46,712	47,132	48,154	48,456	47,719	Manufacture of finished plastic products
3,434	3,455	3,463	3,452	3,417	3,327	3,338	3,349	3,332	3,374	3,332	3,345	3,375	Manufacture of plastic articles for the packing of goods
13,118	13,143	13,249	13,295	13,298	13,124	12,855	12,925	12,920	12,999	13,012	12,961	14,888	Manufacture of builders' plastics ware
56,545	56,535	56,698	56,753	56,585	55,927	56,211	55,920	54,582	54,447	55,334	55,375	52,926	Manufacture of plastic tableware, kitchenware and toilet articles
													Manufacture of diverse plastic products n.e.c.
18,034	18,088	18,144	18,253	18,032	17,782	17,691	17,714	17,490	18,012	17,921	18,828	19,062	Manufacture of glass and glass products

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	85,533	86,772	88,110	86,965	86,012	85,533	86,053	84,988	86,338	86,772
23911	Pembuatan mortar refraktori dan konkrit &										
23921	Pembuatan seramik bukan refraktori	11,012	11,409	11,941	11,594	11,201	11,012	11,682	11,585	11,268	11,409
23930	Pembuatan produk porselin dan seramik lain	5,438	5,100	5,071	5,328	5,460	5,438	5,171	5,271	5,025	5,100
23941	Pembuatan simen hidrolik	7,223	7,667	7,550	7,601	7,192	7,223	7,393	7,392	7,368	7,667
23951	Pembuatan konkrit dan mortar siap bancuh dan bancuhan kering	15,696	16,004	17,306	16,300	16,210	15,696	14,953	15,129	16,178	16,004
23952	Pembuatan konkrit pratuangan, simen atau artikel batu buatan yang digunakan dalam pembinaan;										
23953	Pembuatan komponen struktur pasang siap untuk bangunan atau kejuruteraan awam dari simen, batu atau konkrit buatan	29,327	30,295	28,749	29,165	28,939	29,327	29,886	28,821	29,458	30,295
23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.										
23990	Pembuatan produk mineral bukan logam lain t.t.t.l.	8,190	8,590	8,798	8,282	8,319	8,190	8,351	8,199	8,417	8,590
	Industri lain	8,647	7,707	8,696	8,695	8,692	8,647	8,618	8,591	8,624	7,707
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	53,365	54,326	51,025	49,504	49,416	53,365	52,662	51,756	50,739	54,326
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	42,793	41,977	45,770	42,855	42,862	42,793	43,467	41,629	41,662	41,977
243	Pengacuan logam	14,524	14,773	15,172	14,312	14,564	14,524	15,603	14,511	14,507	14,773
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	60,344	59,684	54,737	58,265	59,964	60,344	61,301	57,540	59,885	59,684
25113	Pembuatan pintu, tingkap dan bingkai, penutup										
25119	tingkap dan pintu pagar daripada logam	41,143	40,418	37,538	40,089	41,064	41,143	42,112	39,080	41,148	40,418
25120	Pembuatan produk struktur logam lain										
25120	Pembuatan tangki, takungan dan kontena daripada logam	10,782	10,948	9,494	9,767	10,503	10,782	10,747	10,497	10,807	10,948
	Industri lain	8,419	8,319	7,705	8,409	8,397	8,419	8,443	7,963	7,930	8,319
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	94,309	96,998	94,510	93,929	94,080	94,309	96,655	94,320	94,729	96,998
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan logam; serbuk metalurgi	21,355	21,823	20,008	20,832	21,115	21,355	21,586	21,444	21,559	21,823
25920	Rawatan dan penyalutan logam; menggunakan	11,576	12,158	11,104	11,143	11,026	11,576	12,771	11,930	11,648	12,158
25991	Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat	7,766	7,800	7,810	7,620	7,653	7,766	7,681	7,596	7,470	7,800
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal) &										
25993	artikel seumpamanya daripada logam	19,267	19,308	19,576	19,573	19,455	19,267	18,955	18,562	19,134	19,308
25994	Pembuatan bolt, skru, nat dan produk uliran seumpamanya										
25999	Pembuatan barangan rumah daripada logam	3,451	3,194	3,599	3,547	3,526	3,451	3,528	3,141	3,064	3,194
	Pembuatan produk lain yang direka daripada logam t.t.t.l.	20,712	22,227	21,327	21,080	20,969	20,712	21,812	21,518	21,619	22,227
	Industri lain	10,183	10,488	11,086	10,133	10,335	10,183	10,322	10,127	10,236	10,488
261	Pembuatan komponen dan papan elektronik	200,705	218,374	207,383	196,237	196,263	200,705	204,576	209,068	211,084	218,374
26101	Pembuatan diod, transistor dan alatan semikonduktor &										
26102	yang seumpamanya	111,358	119,761	117,659	110,928	110,178	111,358	113,322	116,030	118,140	119,761
26103	Pembuatan litar elektronik bersepadu dengan pemasangan mikro										
26104	Pembuatan kapasitor dan perintang elektrik &										
26105	Pembuatan papan litar bercetak	75,518	84,490	74,825	71,499	72,597	75,518	77,520	78,999	79,110	84,490
26109	Pembuatan komponen paparan										
26109	Pembuatan komponen lain untuk aplikasi elektronik	13,829	14,124	14,899	13,809	13,488	13,829	13,734	14,039	13,835	14,124
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	60,287	65,839	64,908	58,939	59,368	60,287	61,218	61,865	63,876	65,839
263/ 26300	Pembuatan peralatan komunikasi	23,686	24,324	23,102	22,636	23,315	23,686	23,250	24,201	24,171	24,324
264/ 26400	Pembuatan peralatan elektronik pengguna	33,999	33,782	34,097	34,060	34,672	33,999	33,624	33,516	34,256	33,782
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	27,479	29,332	30,141	27,862	27,589	27,479	28,566	28,467	28,652	29,332
26511	Pembuatan kelengkapan mengukur, menguji, &										
26512	memandu arah dan kawalan	21,067	22,605	22,964	21,329	21,117	21,067	22,007	22,100	22,424	22,605
26520	Pembuatan kelengkapan kawalan proses										
26520	Pembuatan jam tangan dan jam dan bahagiannya	6,412	6,727	7,176	6,533	6,472	6,412	6,558	6,367	6,228	6,727
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	12,909	12,927	13,999	12,811	12,822	12,909	12,881	13,088	13,384	12,927

2021												2022		Group Description/Period
Jan.	Feb.	Mar	Apr.	May	Jun	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.		
87,300	85,584	86,053	86,732	86,745	84,988	85,553	85,627	86,338	85,832	86,536	86,772	87,601		Manufacture of non-metallic mineral products n.e.c.
														Manufacture of refractory mortars and concretes
11,381	11,074	11,682	11,683	11,683	11,585	11,313	11,252	11,268	10,991	11,338	11,409	10,694		Manufacture of non-refractory ceramic
5,501	5,195	5,171	5,178	5,359	5,271	5,227	5,206	5,025	5,115	5,087	5,100	5,190		Manufacture of other porcelain and ceramic products
7,393	7,387	7,393	7,470	7,418	7,392	7,379	7,357	7,368	7,370	7,642	7,667	7,687		Manufacture of hydraulic cement
16,036	15,022	14,953	15,292	15,337	15,129	15,389	15,811	16,178	15,710	15,973	16,004	16,143		Manufacture of ready-mix and dry-mix concrete and mortars
														Manufacture of precast concrete, cement or artificial stone articles for use in construction
29,660	29,743	29,886	29,888	29,741	28,821	29,373	29,177	29,458	29,408	30,169	30,295	30,821		Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone
														Manufacture of other articles of concrete, cement and plaster n.e.c.
8,366	8,383	8,351	8,419	8,478	8,199	8,285	8,250	8,417	8,605	8,624	8,590	8,927		Manufacture of other non-metallic mineral products n.e.c.
8,963	8,780	8,618	8,804	8,730	8,591	8,588	8,574	8,624	8,633	7,703	7,707	8,139		Other industry
54,315	52,823	52,662	51,560	51,505	51,756	50,837	50,710	50,739	51,914	51,801	54,326	54,006		Manufacture of basic iron and steel
42,928	43,551	43,467	43,113	42,833	41,629	41,339	41,298	41,662	41,874	41,967	41,977	42,550		Manufacture of basic precious and other non-ferrous metals
14,616	15,068	15,603	14,822	14,582	14,511	14,100	14,448	14,507	14,504	14,750	14,773	15,364		Casting of metals
60,676	60,608	61,301	60,278	60,224	57,540	58,258	58,340	59,885	60,091	59,486	59,684	59,751		Manufacture of structural metal products, tanks, reservoirs, steam generators, weapons and ammunition
														Manufacture of metal doors, windows and their frames, shutters and gates
41,406	41,402	42,112	41,377	41,579	39,080	39,772	39,969	41,148	41,208	40,222	40,418	40,558		Manufacture of other structural metal products
10,786	10,770	10,747	10,728	10,668	10,497	10,584	10,459	10,807	10,869	10,959	10,948	10,864		Manufacture of tanks, reservoirs and containers of metal
8,484	8,436	8,443	8,172	7,977	7,963	7,901	7,913	7,930	8,015	8,305	8,319	8,330		Other industry
94,941	95,656	96,655	95,985	95,505	94,320	93,610	93,585	94,729	95,369	96,059	96,998	97,460		Manufacture of other fabricated metal products; metal working service activities
21,776	21,738	21,586	21,509	21,524	21,444	21,160	21,160	21,559	21,716	21,806	21,823	22,053		Forging, pressing, stamping and roll-forming of metal; powder metallurgy
11,649	12,221	12,771	12,300	12,218	11,930	11,984	11,726	11,648	11,872	12,055	12,158	12,243		Treatment and coating of metals; machining
7,878	7,784	7,681	7,725	7,647	7,596	7,512	7,461	7,470	7,600	7,685	7,800	7,949		Manufacture of tins and cans for food products, collapsible tubes and boxes
														Manufacture of metal cable, plaited bands and similar articles
19,311	19,074	18,955	18,816	18,669	18,562	18,380	18,487	19,134	19,015	19,260	19,308	19,189		Manufacture of bolts, screws, nuts and similar threaded products
3,457	3,492	3,528	3,485	3,507	3,141	3,018	3,035	3,064	3,057	3,210	3,194	3,174		Manufacture of metal household articles
20,731	21,221	21,812	21,878	21,717	21,518	21,359	21,468	21,619	21,710	21,563	22,227	22,348		Manufacture of any other fabricated metal products n.e.c.
10,139	10,126	10,322	10,271	10,223	10,127	10,195	10,248	10,236	10,399	10,480	10,488	10,504		Other industry
200,915	203,356	204,576	206,925	207,783	209,068	209,535	211,189	211,084	215,201	216,965	218,374	217,493		Manufacture of electronic components and boards
														Manufacture of diodes, transistors and similar semiconductor devices
111,476	112,907	113,322	115,375	115,969	116,030	116,405	118,017	118,140	118,487	119,077	119,761	118,738		Manufacture of electronic integrated circuits micro assemblies
														Manufacture of electrical capacitors and resistors
75,637	76,630	77,520	77,705	77,823	78,999	79,154	79,289	79,110	82,840	83,795	84,490	84,511		Manufacture of printed circuit boards
														Manufacture of display components
13,802	13,819	13,734	13,845	13,991	14,039	13,975	13,883	13,835	13,874	14,092	14,124	14,244		Manufacture of other components for electronic applications
61,091	61,454	61,218	61,137	61,768	61,865	62,743	63,212	63,876	63,930	65,743	65,839	66,148		Manufacture of computers and peripheral equipment
23,459	23,418	23,250	23,603	23,855	24,201	24,107	24,231	24,171	24,286	24,497	24,324	24,003		Manufacture of communication equipment
33,722	33,673	33,624	33,359	33,670	33,516	31,842	33,292	34,256	34,864	34,181	33,782	34,126		Manufacture of consumer electronics
28,433	28,471	28,566	28,611	28,664	28,467	28,465	28,644	28,652	28,749	29,282	29,332	29,553		Manufacture of measuring, testing, navigating and control equipment; watches and clocks
22,074	22,013	22,007	22,090	22,176	22,100	22,219	22,384	22,424	22,567	22,516	22,605	22,822		Manufacture of measuring, testing, navigating and control equipment
6,359	6,458	6,558	6,521	6,488	6,367	6,246	6,261	6,228	6,181	6,766	6,727	6,731		Manufacture of industrial process control
														Manufacture of watches and clocks and parts
12,863	12,872	12,881	12,828	12,905	13,088	13,284	13,448	13,384	13,324	12,968	12,927	12,854		Manufacture of irradiation, electromedical and electrotherapeutic equipment

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	6,472	5,900	7,108	6,674	6,586	6,472	6,353	6,352	6,261	5,900
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	40,572	43,287	39,219	39,273	40,234	40,572	41,568	40,743	42,472	43,287
27101	Pembuatan motor elektrik, penjana dan transformer	17,997	19,041	17,602	17,318	17,753	17,997	19,015	18,385	18,891	19,041
27102	Pembuatan perkakasan pengagihan dan penagawalan elektrik	22,575	24,245	21,617	21,955	22,480	22,575	22,552	22,358	23,582	24,245
272/ 27200	Pembuatan bateri dan akumulator	8,792	8,019	8,062	8,576	8,796	8,792	8,964	8,620	8,604	8,019
273	Pembuatan pendawaian dan peranti pendawaian	22,421	24,181	22,010	20,297	21,059	22,421	21,783	22,241	23,044	24,181
27310	Pembuatan kabel gentian optikal	890	887	1,005	912	906	890	887	874	946	887
27320	Pembuatan wayar dan kabel elektronik dan elektrik lain	20,112	21,561	19,542	17,949	18,724	20,112	19,449	19,631	20,353	21,561
27330	Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	1,419	1,733	1,464	1,436	1,428	1,419	1,447	1,736	1,745	1,733
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	4,551	3,692	4,976	4,514	4,511	4,551	4,415	4,321	4,105	3,692
275/ 27500	Pembuatan perkakasan domestik	14,831	15,318	15,471	15,262	15,195	14,831	15,462	15,009	14,755	15,318
279/ 27900	Pembuatan kelengkapan elektrik lain	7,545	7,583	6,435	6,602	7,402	7,545	7,466	7,335	7,381	7,583
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	91,983	92,969	89,689	90,785	91,320	91,983	92,497	93,644	91,587	92,969
28120	Pembuatan alat-alat kuasa bendalir &	6,219	7,625	6,712	6,161	6,032	6,219	6,250	6,121	6,262	7,625
28130	Pembuatan pam, pemampat, kepala paip dan injap lain										
28180	Pembuatan alatan tangan yang menggunakan kuasa dilengkapi dengan motor elektrik atau bukan motor elektrik atau pneumatik	23,763	22,560	22,543	22,916	23,505	23,763	23,726	23,781	23,311	22,560
28220	Pembuatan jentera pembentukan logam dan alatan mesin										
28192	Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	9,507	8,760	10,224	9,325	9,400	9,507	9,240	9,077	8,696	8,760
28290	Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	9,915	9,574	10,454	10,493	10,092	9,915	9,890	9,850	9,395	9,574
		42,579	44,450	39,755	41,890	42,292	42,579	43,391	44,816	43,922	44,450
291 (29101 & 29102)	Pembuatan kenderaan bermotor	23,829	24,246	26,119	23,551	23,416	23,829	23,975	23,655	23,976	24,246
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	6,578	6,504	8,097	6,601	6,517	6,578	6,509	6,563	6,572	6,504
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	52,586	53,048	55,860	52,009	52,198	52,586	52,742	52,493	52,484	53,048
301 (30110 & 30120)	Pembinaan kapal dan bot	12,926	12,847	13,409	12,565	13,073	12,926	13,318	12,340	12,971	12,847
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.	28,327	28,749	32,796	28,007	28,481	28,327	29,773	28,366	28,632	28,749
30910	Pembuatan motosikal	11,021	11,399	12,608	11,009	11,005	11,021	11,645	11,084	11,280	11,399
30920	Pembuatan basikal dan invalid carriages	3,467	3,222	4,438	3,172	3,331	3,467	3,861	3,372	3,237	3,222
	Industri lain	13,839	14,129	15,751	13,826	14,145	13,839	14,267	13,910	14,115	14,129
310	Pembuatan perabot	73,877	76,839	76,145	73,944	74,144	73,877	75,614	72,124	77,542	76,839
31001	Pembuatan perabot kayu dan rotan	55,809	58,845	57,768	56,548	56,440	55,809	56,642	53,543	58,867	58,845
	Industri lain	18,068	17,994	18,376	17,396	17,704	18,068	18,971	18,581	18,674	17,994
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	5,635	5,401	5,974	5,751	5,712	5,635	5,436	5,268	5,284	5,401
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	24,317	26,303	23,875	24,281	24,265	24,317	25,614	25,402	25,565	26,303
32901	Pembuatan alat tulis	6,148	6,332	6,314	6,264	6,260	6,148	6,063	5,975	6,016	6,332
	Industri lain	18,169	19,972	17,561	18,018	18,005	18,169	19,551	19,427	19,549	19,972
323/ 32300	Pembuatan barangan sukan	2,360	2,667	2,311	2,397	2,396	2,360	2,652	2,564	2,526	2,667
324/ 32400	Pembuatan permainan dan mainan	4,826	4,851	5,324	5,089	5,134	4,826	4,882	4,698	4,800	4,851
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	39,976	41,456	40,771	39,427	40,063	39,976	41,113	40,018	41,003	41,456
33150	Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	7,112	6,594	7,673	7,175	6,902	7,112	6,963	6,648	6,610	6,594
	Industri lain	32,864	34,861	33,098	32,253	33,161	32,864	34,151	33,370	34,392	34,861
Jumlah Pembuatan		2,199,195	2,259,619	2,257,273	2,188,142	2,195,300	2,199,195	2,233,545	2,215,420	2,231,406	2,259,619

2021												2022	Group Description/Period
Jan.	Feb.	Mar	Apr.	May	Jun	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	
6,463	6,398	6,353	6,366	6,392	6,352	6,229	6,310	6,261	6,245	5,881	5,900	5,601	Manufacture of optical instruments, photographic equipment, magnetic and optical media
41,462	41,486	41,568	40,844	40,743	40,743	40,648	41,650	42,472	42,612	42,531	43,287	43,546	Manufacture of electric motors, generators, transformers and electricity distribution and control
18,932	18,974	19,015	18,482	18,337	18,385	18,476	18,568	18,891	18,853	18,717	19,041	19,281	Manufacture of electric motors, generators and transformers
22,530	22,512	22,552	22,362	22,406	22,358	22,172	23,082	23,582	23,759	23,815	24,245	24,265	Manufacture of electricity distribution and control apparatus
8,982	8,923	8,964	8,913	9,007	8,620	8,504	8,992	8,604	8,585	8,093	8,019	8,030	Manufacture of batteries and accumulators
22,193	21,960	21,783	21,562	21,782	22,241	22,123	22,611	23,044	23,442	23,827	24,181	24,094	Manufacture of wiring and wiring devices
878	883	887	871	878	874	886	883	946	944	860	887	884	Manufacture of fibre optic cables
19,886	19,639	19,449	19,235	19,434	19,631	19,506	19,983	20,353	20,748	21,203	21,561	21,457	Manufacture of other electronic and electric wires and cables
1,429	1,438	1,447	1,457	1,471	1,736	1,731	1,745	1,745	1,750	1,764	1,733	1,753	Manufacture of current-carrying and non current-carrying wiring devices for electrical circuits regardless of material
4,529	4,471	4,415	4,354	4,327	4,321	4,237	4,154	4,105	4,067	3,717	3,692	3,705	Manufacture of electric lighting equipment
14,887	14,826	15,462	15,283	15,137	15,009	14,792	14,808	14,755	15,033	15,193	15,318	15,393	Manufacture of domestic appliances
7,510	7,488	7,466	7,451	7,441	7,335	7,347	7,310	7,381	7,336	7,591	7,583	7,631	Manufacture of other electrical equipment
92,485	93,802	92,497	92,927	92,530	93,644	91,679	91,687	91,587	91,552	93,169	92,969	93,820	Manufacture of general-purpose and special-purpose machinery
													Manufacture of fluid power equipment
6,213	6,232	6,250	6,305	6,268	6,121	6,217	6,232	6,262	6,181	7,742	7,625	7,649	Manufacture of other pumps, compressors, taps and valves
													Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives
23,589	24,069	23,726	24,041	23,846	23,781	23,448	23,383	23,311	23,353	22,634	22,560	22,670	Manufacture of metal-forming machinery and machine tools
9,203	9,267	9,240	9,212	9,096	9,077	8,592	8,658	8,696	8,497	8,681	8,760	9,300	Manufacture of air-conditioning machines, including for motor vehicles
9,937	9,913	9,890	10,046	10,069	9,850	9,859	9,746	9,395	9,478	9,512	9,574	9,728	Manufacture of other special-purpose machinery
43,542	44,321	43,391	43,323	43,252	44,816	43,563	43,668	43,922	44,043	44,599	44,450	44,473	Other industry
23,849	24,062	23,975	23,945	23,891	23,655	23,434	23,526	23,976	24,115	24,148	24,246	24,294	Manufacture of motor vehicles
6,610	6,606	6,509	6,642	6,676	6,563	6,546	6,550	6,572	6,598	6,534	6,504	6,514	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
52,479	52,810	52,742	52,895	52,709	52,493	52,226	51,997	52,484	52,880	52,920	53,048	53,581	Manufacture of parts and accessories for motor vehicles
13,112	13,153	13,318	12,565	12,629	12,340	12,325	12,356	12,971	13,048	13,103	12,847	13,103	Building of ships and boats
29,686	29,734	29,773	28,817	28,650	28,366	28,305	28,231	28,632	28,911	28,889	28,749	29,738	Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c
11,329	11,486	11,645	11,202	11,113	11,084	11,045	11,042	11,280	11,521	11,495	11,399	11,680	Manufacture of motorcycles
3,846	3,853	3,861	3,504	3,445	3,372	3,338	3,262	3,237	3,230	3,231	3,222	3,442	Manufacture of bicycles and invalid carriages
14,511	14,395	14,267	14,111	14,093	13,910	13,922	13,927	14,115	14,160	14,163	14,129	14,616	Other industry
75,049	75,267	75,614	76,594	76,376	72,124	70,706	70,892	77,542	76,979	77,243	76,839	78,359	Manufacture of furniture
56,054	56,219	56,642	57,602	57,460	53,543	52,111	52,285	58,867	58,517	58,980	58,845	60,314	Manufacture of wooden and cane furniture
18,995	19,047	18,971	18,991	18,916	18,581	18,594	18,607	18,674	18,462	18,263	17,994	18,045	Other industry
5,770	5,701	5,436	5,406	5,368	5,268	5,338	5,327	5,284	5,319	5,431	5,401	5,507	Manufacture of jewellery, bijouterie and related articles
24,996	25,486	25,614	25,717	25,691	25,402	25,395	25,385	25,565	25,737	26,138	26,303	26,385	Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.
6,163	6,047	6,063	6,053	6,026	5,975	5,957	5,929	6,016	6,161	6,285	6,332	6,288	Manufacture of stationery
18,833	19,439	19,551	19,664	19,665	19,427	19,437	19,456	19,549	19,576	19,854	19,972	20,097	Other industry
2,636	2,644	2,652	2,604	2,601	2,564	2,562	2,537	2,526	2,548	2,633	2,667	2,692	Manufacture of sports goods
4,912	4,847	4,882	4,805	4,731	4,698	4,699	4,715	4,800	4,818	4,783	4,851	4,853	Manufacture of games and toys
41,454	41,750	41,113	41,056	40,989	40,018	40,374	40,635	41,003	41,610	41,922	41,456	42,529	Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment
7,278	7,123	6,963	6,963	6,982	6,648	6,618	6,602	6,610	6,570	6,761	6,594	6,754	Repair and maintenance of transport equipment except motorcycles and bicycles
34,177	34,628	34,151	34,093	34,008	33,370	33,756	34,033	34,392	35,040	35,161	34,861	35,775	Other industry
2,225,697	2,228,415	2,233,545	2,235,004	2,236,459	2,215,420	2,210,084	2,213,715	2,231,406	2,241,048	2,253,574	2,259,619	2,274,146	Total Manufacturing

Jadual **1.5b** : Bilangan Pekerja Bergaji Sektor Pembuatan Mengikut Kumpulan: Perubahan Peratusan Tahunan
Table : Number of Paid Employees of Manufacturing Sector by Group: Annual Percentage Change

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
101	Pemprosesan dan pengawetan daging	-4.3	1.1	-0.7	1.2	2.0	1.1	2.2	0.1
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	-9.3	2.2	-1.0	-0.4	-0.1	2.2	0.4	-1.4
10201 & 10202	Pengetinan ikan, krustasea dan moluska	-7.0	-0.6	-0.3	-0.8	-1.4	-0.6	2.0	-0.2
	Pemprosesan dan pengawetan ikan, krustasea dan moluska								
	Industri lain	-20.9	19.5	-4.9	2.1	7.9	19.5	-7.8	-7.7
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	5.5	-9.1	-2.5	-7.9	-8.7	-9.1	-4.5	-4.4
10303 & 10304	Pengetinan nanas	9.8	-50.6	8.0	6.9	-51.0	-50.6	6.2	7.5
	Pembuatan jem, marmalad dan sajian jeli								
	Industri lain	5.0	-4.5	-3.6	-9.3	-4.0	-4.5	-5.6	-5.6
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	-1.3	2.9	-1.9	-3.2	-0.3	2.9	-3.9	-3.7
10404 & 10406	Pembuatan minyak sayuran mentah dan bertapis	-1.8	5.5	-2.5	3.5	-0.1	5.5	-8.2	-3.8
	Pembuatan sebatian lemak masakan								
10405	Pembuatan minyak kelapa	-1.8	2.9	2.2	0.8	0.3	2.9	-2.4	2.2
	Industri lain	-1.3	2.7	-2.0	-3.7	-0.3	2.7	-3.7	-3.9
105	Pembuatan produk tenusu	-4.2	1.8	4.8	4.1	3.2	1.8	-2.5	-0.5
10502	Pembuatan susu pekat, tepung dan sejat	-7.7	3.1	3.9	5.2	4.0	3.1	-2.9	-2.1
	Industri lain	7.1	-1.7	7.4	0.9	0.9	-1.7	-1.1	4.6
106	Pembuatan produk bijian, kanji dan produk berkanji	1.0	5.1	-0.9	2.2	5.1	5.1	-0.3	-0.3
10611	Pengilangan beras	0.7	4.5	0.9	2.5	8.3	4.5	1.5	1.3
10613	Pengilangan tepung	1.4	5.6	-1.1	2.1	2.6	5.6	-1.5	-0.8
	Industri lain	0.3	5.2	-7.6	1.0	1.0	5.2	-3.5	-5.3
107	Pembuatan produk makanan lain	2.2	6.4	4.6	4.7	4.5	6.4	3.6	4.5
10711	Pembuatan biskut dan cookies	5.0	18.4	1.6	-1.1	-2.5	18.4	0.8	1.7
10712	Pembuatan roti, kek dan produk bakeri lain	-4.8	7.5	-3.8	5.6	6.5	7.5	-5.6	-3.9
10713	Pembuatan produk snek	-2.8	-3.8	-1.8	-1.1	-3.6	-3.8	-1.8	-1.4
10721	Pembuatan gula	-11.5	-3.2	-10.9	-12.1	0.2	-3.2	-12.3	-11.3
10731	Pembuatan produk koko	-1.7	-5.1	-4.6	-10.8	-12.2	-5.1	-4.5	-3.3
10732	Pembuatan coklat dan produk coklat								
& 10733	Pembuatan konfeksi gula	-11.8	-8.0	-8.2	-5.0	-6.2	-8.0	-6.9	-9.1
10793	Pembuatan sos dan bahan perasa	2.7	18.4	17.3	11.3	11.3	18.4	20.6	18.3
10799	Pembuatan produk makanan lain t.t.t.l.	8.9	7.6	26.2	19.5	18.5	7.6	20.7	25.1
	Industri lain	13.4	5.4	9.8	5.6	5.3	5.4	9.5	10.2
108/10800	Pembuatan makanan haiwan tersedia	-4.6	-16.9	-6.8	-6.1	-16.7	-16.9	-8.5	-8.2
110	Pembuatan minuman ringan	-10.7	1.7	-10.6	-2.1	0.7	1.7	-11.5	-11.4
11041	Pembuatan minuman ringan	-9.2	0.0	-12.9	-2.7	-2.8	0.0	-13.4	-13.9
11042	Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	-11.6	-3.6	-8.6	-6.3	-4.1	-3.6	-9.5	-9.3
	Industri lain	-18.8	34.0	0.9	17.6	45.2	34.0	-3.5	1.0
120/12000	Pembuatan produk tembakau	-27.4	3.3	-12.8	17.6	11.1	3.3	-22.4	-11.5
131	Pemintalan, penenunan dan penyiapan tekstil	-7.4	-0.4	-7.4	-6.7	-2.8	-0.4	-10.9	-9.1
13110 & 13120	Penyediaan dan pemintalan gentian tekstil	-2.7	-5.8	-4.2	-5.1	-6.6	-5.8	-7.6	-5.4
	Penenunan tekstil								
13132	Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	-16.9	26.6	-14.6	-6.9	16.0	26.6	-20.4	-18.3
	Industri lain	-23.4	-37.5	-16.1	-27.3	-26.6	-37.5	-12.0	-14.8
139	Pembuatan tekstil lain	-4.1	8.2	-1.7	1.4	3.6	8.2	-4.4	-6.1
13910	Pembuatan fabrik dikait dan dikrusye	-5.6	10.9	-3.4	3.4	5.4	10.9	-1.7	-3.0
	Industri lain	-3.1	6.5	-0.6	0.1	2.4	6.5	-6.1	-8.0
141	Pembuatan pakaian, kecuali pakaian berbulu	-21.5	1.9	-23.2	-19.0	-8.9	1.9	-23.9	-23.4
14102	Pembuatan pakaian	-26.1	3.2	-27.6	-21.5	-8.0	3.2	-28.5	-27.7
	Industri lain	-7.0	-1.3	-9.3	-11.5	-11.3	-1.3	-9.7	-9.9
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	-23.7	-19.1	-30.8	-12.2	-20.1	-19.1	-28.1	-29.2
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	0.04	7.7	0.4	2.7	7.4	7.7	-0.4	0.5
152	Pembuatan kasut	-5.0	0.3	-5.0	-5.5	-0.9	0.3	-4.5	-6.0
15201 & 15203	Pembuatan kasut kulit	-6.7	-2.0	-7.6	-5.9	-4.2	-2.0	-5.2	-10.1
	Pembuatan kasut getah								
	Industri lain	-2.9	3.2	-1.6	-5.1	3.0	3.2	-3.7	-0.3
161/16100	Pengilangan dan pengetaman kayu	-6.4	4.2	-6.6	-5.9	2.9	4.2	-10.2	-9.8

2021										2022	Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
-0.7	-0.2	0.5	1.2	1.4	0.8	2.0	2.5	1.9	1.1	1.3	Processing and preserving of meat
-1.0	5.5	3.6	-0.4	-0.4	-1.1	-0.1	-0.1	0.5	2.2	-0.3	Processing and preserving of fish, crustaceans and molluscs
											Canning of fish, crustaceans and molluscs
-0.3	4.2	2.5	-0.8	-1.1	-1.7	-1.4	-1.6	-1.9	-0.6	-1.0	Processing, curing and preserving of fish, crustacean and molluscs
-4.9	13.9	10.4	2.1	3.5	3.0	7.9	9.3	15.0	19.5	3.3	Other industry
-2.5	-14.5	-8.0	-7.9	-1.0	-9.8	-8.7	-10.3	-10.5	-9.1	-8.4	Processing and preserving of fruits and vegetable
											Pineapple canning
8.0	9.1	7.2	6.9	-3.2	-49.5	-51.0	-50.9	-51.5	-50.6	-54.2	Manufacture of jams, marmalades and table jellies
-3.6	-16.5	-9.4	-9.3	-0.8	-5.7	-4.0	-5.8	-6.0	-4.5	-3.4	Other industry
-1.9	-2.9	-2.2	-3.2	-1.6	-1.9	-0.3	0.4	2.0	2.9	2.7	Manufacture of vegetable and animal oils and fats
											Manufacture of crude and refined vegetable oil
-2.5	5.6	10.4	3.5	0.8	1.1	-0.1	0.1	5.3	5.5	5.1	Manufacture of compound cooking fats
2.2	1.4	1.1	0.8	0.0	0.2	0.3	0.0	2.9	2.9	3.2	Manufacture of coconut oil
-2.0	-3.5	-2.9	-3.7	-1.8	-2.1	-0.3	0.4	1.8	2.7	2.5	Other industry
4.8	5.3	4.0	4.1	3.6	3.2	3.2	1.7	1.4	1.8	-4.0	Manufacture of dairy products
3.9	6.2	4.8	5.2	4.5	4.3	4.0	2.5	2.4	3.1	-5.0	Manufacture of condensed, powdered and evaporated milk
7.4	2.8	2.1	0.9	0.9	0.2	0.9	-0.3	-1.5	-1.7	-0.8	Other industry
-0.9	-1.1	0.7	2.2	2.1	3.6	5.1	5.5	4.2	5.1	2.6	Manufacture of grain mill products, starches and starch products
0.9	-0.4	2.1	2.5	2.0	6.0	8.3	9.4	5.0	4.5	0.4	Rice milling
-1.1	0.6	1.9	2.1	2.1	2.2	2.6	2.2	4.6	5.6	6.1	Flour milling
-7.6	-10.6	-10.1	1.0	2.5	-2.1	1.0	2.2	-0.7	5.2	-2.0	Other industry
4.6	6.0	5.2	4.7	4.5	4.7	4.5	5.9	6.9	6.4	4.5	Manufacture of other food products
1.6	0.0	-0.6	-1.1	-4.2	-4.1	-2.5	0.7	18.7	18.4	19.3	Manufacture of biscuits and cookies
-3.8	1.4	2.8	5.6	5.2	7.0	6.5	7.1	7.5	7.5	6.7	Manufacture of bread, cakes and other bakery products
-1.8	-2.5	-2.8	-1.1	-2.9	-3.0	-3.6	-4.2	-4.3	-3.8	-6.4	Manufacture of snack products
-10.9	-11.3	-11.9	-12.1	-0.6	0.3	0.2	-2.7	-4.6	-3.2	-2.9	Manufacture of sugar
-4.6	-4.5	-6.0	-10.8	-10.7	-11.6	-12.2	-9.1	-5.8	-5.1	-4.5	Manufacture of cocoa products
											Manufacture of chocolate and chocolate products
-8.2	-6.6	-4.0	-5.0	-4.9	-5.0	-6.2	-2.6	-8.5	-8.0	-10.6	Manufacture of sugar confectionery
17.3	16.3	14.8	11.3	10.8	11.4	11.3	11.5	16.9	18.4	6.8	Manufacture of sauces and condiments
26.2	27.1	25.5	19.5	19.3	16.4	18.5	20.0	12.8	7.6	7.8	Manufacture of other food products n.e.c.
9.8	10.4	6.6	5.6	6.5	6.5	5.3	6.8	6.0	5.4	3.3	Other industry
-6.8	-3.0	-4.0	-6.1	-4.8	-16.5	-16.7	-13.3	-15.7	-16.9	-15.4	Manufacture of prepared animal feeds
-10.6	-2.5	-1.5	-2.1	-3.6	-1.0	0.7	1.6	1.9	1.7	0.8	Manufacture of beverages
-12.9	-3.0	-4.0	-2.7	-4.9	-4.9	-2.8	-0.4	-0.1	0.0	0.3	Manufacture of soft drinks
-8.6	-3.1	-2.7	-6.3	-5.1	-5.1	-4.1	-5.2	-4.5	-3.6	-4.2	Production of natural mineral waters and other bottled waters
0.9	2.1	23.9	17.6	12.3	43.7	45.2	41.1	42.8	34.0	17.9	Other industry
-12.8	19.4	18.0	17.6	14.7	10.4	11.1	7.5	1.2	3.3	3.6	Manufacture of tobacco products
-7.4	-1.6	-2.4	-6.7	-5.4	-3.8	-2.8	-2.3	-3.3	-0.4	-0.9	Spinning, weaving and finishing of textiles
											Preparation and spinning of textile fibres
-4.2	-2.3	-3.4	-5.1	-5.5	-6.6	-6.6	-7.2	-6.5	-5.8	-6.9	Weaving of textiles
-14.6	-13.5	-8.4	-6.9	3.6	7.9	16.0	21.4	17.5	26.6	27.6	Dyeing, bleaching, printing and finishing of yarns and fabrics
-16.1	284.6	72.1	-27.3	-41.0	-14.2	-26.6	-29.2	-42.0	-37.5	-32.4	Other industry
-1.7	3.6	3.0	1.4	2.3	1.3	3.6	4.9	8.1	8.2	3.4	Manufacture of other textiles
-3.4	2.0	2.0	3.4	3.8	1.9	5.4	7.3	9.8	10.9	8.3	Manufacture of knitted and crocheted fabrics
-0.6	4.7	3.6	0.1	1.4	0.9	2.4	3.4	6.9	6.5	0.3	Other industry
-23.2	-16.3	-16.5	-19.0	-14.1	-6.3	-8.9	-7.2	1.3	1.9	2.3	Manufacture of wearing apparel, except fur
-27.6	-21.6	-21.2	-21.5	-15.8	-5.3	-8.0	-6.3	2.5	3.2	2.5	Manufacture of clothings
-9.3	0.9	-1.3	-11.5	-9.2	-8.9	-11.3	-9.6	-1.9	-1.3	1.8	Other industry
-30.8	-13.8	-13.0	-12.2	-4.9	-20.5	-20.1	-22.9	-19.1	-19.1	-13.2	Manufacture of articles of fur, knitted and crocheted apparel
											Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur
0.4	4.0	6.1	2.7	0.1	4.4	7.4	9.9	9.6	7.7	7.1	
-5.0	0.4	-1.6	-5.5	-3.6	-2.5	-0.9	0.4	0.0	0.3	1.1	Manufacture of footwear
											Manufacture of leather footwear
-7.6	4.0	-0.2	-5.9	-4.3	-3.4	-4.2	-2.0	-1.5	-2.0	0.8	Manufacture of rubber footwear
-1.6	-3.8	-3.4	-5.1	-2.7	-1.5	3.0	3.5	1.9	3.2	1.6	Other industry
-6.6	12.5	4.2	-5.9	-1.1	1.2	2.9	3.0	3.5	4.2	4.4	Sawmilling and planning of wood

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	-8.4	2.0	-8.7	-2.6	-0.4	2.0	-9.2	-9.7
16211	Pembuatan kepingan venier dan papan lapis	-13.3	1.0	-15.6	-6.4	-1.2	1.0	-14.3	-16.0
16212	Pembuatan papan partikel dan papan gentian	-12.8	-2.7	-8.6	-7.6	-8.8	-2.7	-12.5	-9.4
16221	Pertukangan kayu untuk jurubina	4.7	-0.1	8.7	7.1	5.3	-0.1	0.6	3.3
	Industri lain	1.1	10.3	1.6	4.1	2.1	10.3	2.8	1.4
170	Pembuatan kertas dan produk kertas	-4.8	3.5	-3.1	2.7	2.9	3.5	-4.7	-4.0
17010	Pembuatan pulpa, kertas dan kertas tebal	2.9	7.3	2.7	1.8	1.2	7.3	-0.5	-3.7
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	-6.1	1.5	-3.8	5.0	2.5	1.5	-2.9	-4.0
17091	Pembuatan sampul surat dan kad surat	-9.5	-5.9	-6.2	2.7	0.1	-5.9	-4.0	-4.3
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	-5.6	6.0	-7.1	1.0	1.5	6.0	-11.4	-6.9
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	-8.5	7.3	-1.6	1.9	11.6	7.3	-6.9	-1.9
	Industri lain	-2.6	-0.03	-1.4	-1.0	0.2	-0.03	-0.8	-1.0
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	-1.6	3.7	-1.2	-0.4	-1.9	3.7	-4.5	-3.8
18110	Percetakan	-2.9	4.6	-1.9	0.3	-1.3	4.6	-5.1	-4.8
18120	Aktiviti perkhidmatan berkaitan percetakan								
&		4.6	0.1	1.8	-3.2	-4.6	0.1	-1.6	0.4
18200	Penerbitan semula media rakaman								
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	-7.2	2.8	-4.5	5.7	5.1	2.8	-7.3	-7.1
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	-7.3	-7.8	-10.5	-1.4	-3.4	-7.8	-13.0	-11.2
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	-7.2	-18.3	-3.1	12.2	11.8	-18.3	-2.6	-3.0
20112	Pembuatan kimia organik asas								
&		-1.8	8.8	-2.1	2.6	1.8	8.8	-3.7	-3.0
20113	Pembuatan sebatian bukan organik								
20121	Pembuatan baja								
&		-5.2	-17.1	-1.4	-1.3	-2.6	-17.1	-7.6	-2.0
20129	Pembuatan produk campuran nitrogen								
20131	Pembuatan plastik dalam bentuk primer	-15.5	-18.9	-30.8	-13.4	-18.3	-18.9	-32.4	-31.5
	Industri lain	-1.9	14.2	8.1	3.5	2.9	14.2	-1.9	5.2
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	-5.1	8.3	2.4	6.0	3.4	8.3	-3.0	-3.9
20210	Pembuatan racun perosak dan produk agrokimia lain	-0.7	18.0	14.8	12.8	10.7	18.0	17.9	15.2
20221	Pembuatan cat, varnis dan penyadur dan mastik	-14.6	-6.2	3.4	-2.1	-2.9	-6.2	-12.1	-13.7
20222	Pembuatan dakwat cetak	-3.2	24.4	20.9	22.1	21.6	24.4	-2.9	-1.7
20231	Pembuatan sabun dan bahan pencuci, penyediaan membersihkan dan mengilat								
&		-1.5	0.1	0.4	5.1	-0.8	0.1	-0.8	-1.9
20232	Pembuatan pewangi dan penyediaan dandanan diri								
20291	Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials								
&		-4.2	26.7	-3.5	7.4	7.9	26.7	-3.9	-4.2
20292	Pembuatan dakwat menulis dan melukis								
&									
20299	Pembuatan produk kimia lain t.t.t.l.								
	Industri lain	5.6	-11.5	-2.2	0.3	0.3	-11.5	-0.8	-1.5
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	9.5	7.5	11.6	11.6	11.8	7.5	9.7	10.7
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	10.3	8.5	11.6	10.8	9.8	8.5	10.2	11.8
	Industri lain	7.6	4.9	11.6	13.6	16.6	4.9	8.4	7.9
221	Pembuatan produk getah	3.2	0.7	3.9	6.2	3.5	0.7	2.7	3.2
22111	Pembuatan tayar getah untuk kenderaan	-10.1	-3.7	-11.8	1.0	-10.1	-3.7	-7.5	-10.7
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	5.3	2.9	-3.5	-15.3	-6.4	2.9	2.9	-1.3
22191	Pembuatan produk lain daripada getah asli atau sintetik, tidak divulkan, divulkan atau dikeraskan								
&		3.8	-6.7	2.3	-0.7	-5.0	-6.7	0.1	1.0
22193	Pengilangan semula getah dan prosesan susu getah								
22192	Pembuatan sarung tangan getah	2.7	0.1	3.7	7.7	7.5	0.1	1.9	2.5
22199	Pembuatan produk getah lain yang t.t.t.l.	7.5	7.3	10.3	10.5	4.6	7.3	8.7	10.3
222	Pembuatan produk plastik	3.6	-0.2	3.9	1.3	-1.7	-0.2	4.2	3.6
22201	Pembuatan produk plastik separa siap								
&		2.9	-5.2	5.0	4.0	-3.3	-5.2	2.6	5.4
22202	Pembuatan produk plastik siap								
22203	Pembuatan artikel plastik untuk pembungkusan	5.9	4.0	5.6	1.6	-0.4	4.0	6.5	5.7
22204	Pembuatan barangan plastik jurubina	-7.2	0.2	-3.0	-0.7	0.004	0.2	-9.0	-3.6
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	7.9	0.7	10.2	3.8	0.4	0.7	8.6	8.8
22209	Pembuatan pelbagai produk plastik t.t.t.l.	2.0	-0.9	1.1	-1.1	-2.3	-0.9	3.3	0.1
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	-4.4	5.5	-0.5	0.1	-1.5	5.5	-4.4	-2.6

2021										2022		Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-8.7	-2.2	0.1	-2.6	-1.4	-0.8	-0.4	2.1	2.8	2.0	1.2		Manufacture of products of wood, cork, straw and plaiting materials
-15.6	-7.1	-3.1	-6.4	-3.7	-2.3	-1.2	0.2	0.6	1.0	0.001		Manufacture of veneer sheets and plywood
-8.6	-7.2	-4.7	-7.6	-7.4	-7.5	-8.8	-4.1	-3.5	-2.7	-1.1		Manufacture of particle board and fibreboard
8.7	9.5	8.9	7.1	4.6	4.8	5.3	5.8	1.8	-0.1	-4.9		Manufacture of builders' carpentry
1.6	8.0	5.9	4.1	4.4	2.8	2.1	9.2	15.3	10.3	12.7		Other industry
-3.1	5.0	4.5	2.7	2.1	2.2	2.9	3.0	4.9	3.5	2.8		Manufacture of paper and paper products
2.7	7.2	3.3	1.8	0.8	0.5	1.2	7.5	8.2	7.3	7.0		Manufacture of pulp, paper and paperboard
-3.8	5.4	6.2	5.0	0.5	1.8	2.5	2.6	2.7	1.5	1.2		Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
-6.2	3.2	0.9	2.7	6.6	5.0	0.1	-1.5	-5.6	-5.9	-7.5		Manufacture of envelopes and letter-card
-7.1	0.7	1.8	1.0	1.2	0.4	1.5	0.05	8.5	6.0	4.8		Manufacture of household and personal hygiene paper
-1.6	8.6	7.7	1.9	9.7	10.1	11.6	7.9	8.2	7.3	5.4		Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
-1.4	5.0	2.4	-1.0	0.9	-1.3	0.2	-1.2	0.8	-0.03	-0.7		Other industry
-1.2	3.9	3.4	-0.4	-2.1	-1.8	-1.9	0.9	2.8	3.7	3.5		Printing, service activities related to printing and reproduction of recorded media
-1.9	4.9	4.5	0.3	-1.5	-1.3	-1.3	1.5	3.6	4.6	4.2		Printing
1.8	0.0	-0.6	-3.2	-4.3	-3.9	-4.6	-1.4	-0.4	0.1	0.4		Service activities related to printing
												Reproduction of recorded media
-4.5	2.7	5.1	5.7	5.1	5.2	5.1	3.8	3.4	2.8	1.5		Manufacture of refined petroleum products
-10.5	-0.5	-1.3	-1.4	-2.9	-3.0	-3.4	-3.7	-7.2	-7.8	-5.1		Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
-3.1	14.1	11.8	12.2	13.8	12.3	11.8	11.0	-18.0	-18.3	-22.5		Manufacture of liquefied or compressed inorganic industrial or medical gases
												Manufacture of basic organic chemicals
-2.1	5.5	3.2	2.6	2.2	2.4	1.8	2.3	9.3	8.8	7.6		Manufacture of inorganic compounds
												Manufacture of fertilizers
-1.4	-3.7	-1.4	-1.3	-1.7	-2.1	-2.6	-3.7	-15.0	-17.1	-18.6		Manufacture of associated nitrogen products
-30.8	-12.9	-13.8	-13.4	-17.9	-17.9	-18.3	-18.5	-18.7	-18.9	-3.5		Manufacture of plastics in primary forms
8.1	5.1	4.8	3.5	1.5	1.7	2.9	1.8	11.8	14.2	13.9		Other industry
2.4	6.2	6.6	6.0	4.1	3.2	3.4	7.0	7.8	8.3	5.2		Manufacture of other chemical products and man-made fibres
14.8	14.9	14.5	12.8	11.7	10.9	10.7	12.2	17.4	18.0	-1.6		Manufacture of pesticides and other agrochemical products
3.4	-2.6	-1.7	-2.1	-1.4	-2.2	-2.9	-2.6	-5.2	-6.2	-6.1		Manufacture of paints, varnishes and similar coatings ink and
20.9	19.4	19.9	22.1	22.4	21.8	21.6	20.9	24.0	24.4	24.6		Manufacture of printing ink
												Manufacture of soap and detergents, cleaning and polishing preparations
0.4	6.7	6.7	5.1	1.0	-0.7	-0.8	0.0	-0.3	0.1	-0.6		Manufacture of perfumes and toilet preparations
												Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
-3.5	6.6	6.9	7.4	5.7	6.3	7.9	20.7	25.0	26.7	20.3		Manufacture of writing and drawing ink
												Manufacture of other chemical products n.e.c.
-2.2	-0.1	2.1	0.3	-1.3	-1.3	0.3	0.3	-10.9	-11.5	-8.7		Other industry
11.6	13.2	12.0	11.6	12.4	12.7	11.8	12.1	7.0	7.5	5.8		Manufacture of pharmaceuticals, medicinal chemical and botanical products
11.6	12.7	11.2	10.8	11.8	11.5	9.8	11.4	8.8	8.5	5.6		Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
11.6	14.5	14.1	13.6	14.1	15.6	16.6	13.9	2.5	4.9	6.4		Other industry
3.9	7.5	6.6	6.2	5.0	4.5	3.5	3.0	1.0	0.7	2.1		Manufacture of rubber products
-11.8	-3.4	-0.6	1.0	-9.8	-9.9	-10.1	-10.8	-8.3	-3.7	-3.6		Manufacture of rubber tyres for vehicles
-3.5	-5.3	-8.6	-15.3	-11.6	-8.8	-6.4	-5.3	2.8	2.9	3.4		Manufacture of interchangeable tyre treads and retreading rubber tyres
												Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
2.3	0.2	-0.6	-0.7	-0.6	-1.6	-5.0	-5.9	-7.6	-6.7	-6.3		Rubber remilling and latex processing
3.7	8.6	7.6	7.7	6.9	6.6	7.5	6.6	1.2	0.1	3.4		Manufacture of rubber gloves
10.3	14.0	12.2	10.5	9.3	8.5	4.6	4.9	7.6	7.3	5.6		Manufacture of other rubber products n.e.c.
3.9	4.3	2.8	1.3	0.0	-1.2	-1.7	-1.4	-0.3	-0.2	-2.6		Manufacture of plastics products
												Manufacture of semi-manufactures of plastic products
5.0	8.2	6.9	4.0	1.5	-3.5	-3.3	-2.9	-4.7	-5.2	-6.3		Manufacture of finished plastic products
5.6	3.5	2.6	1.6	-0.2	-0.4	-0.4	0.2	3.3	4.0	0.3		Manufacture of plastic articles for the packing of goods
-3.0	5.9	-4.7	-0.7	1.1	1.1	0.0	1.4	-0.6	0.2	-1.7		Manufacture of builders' plastics ware
10.2	9.5	7.2	3.8	-0.6	0.6	0.4	1.4	1.5	0.7	13.5		Manufacture of plastic tableware, kitchenware and toilet articles
1.1	1.3	0.0	-1.1	-0.7	-1.0	-2.3	-2.5	-0.8	-0.9	-6.4		Manufacture of diverse plastic products n.e.c.
-0.5	2.4	1.5	0.1	0.0	0.1	-1.5	1.4	0.7	5.5	5.7		Manufacture of glass and glass products

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	-3.2	1.4	-2.3	-2.3	0.4	1.4	-3.1	-3.7
23911	Pembuatan mortar refraktori dan konkrit								
&									
23921	Pembuatan seramik bukan refraktori	-2.3	3.6	-2.2	-0.1	0.6	3.6	-5.4	-8.2
23930	Pembuatan produk porselin dan seramik lain	9.1	-6.2	2.0	-1.1	-8.0	-6.2	9.8	2.9
23941	Pembuatan simen hidrolik	-4.3	6.1	-2.1	-2.8	2.4	6.1	-2.2	-1.6
23951	Pembuatan konkrit dan mortar siap bancuh dan bancuhan kering	-11.2	2.0	-13.6	-7.2	-0.2	2.0	-9.8	-15.2
23952	Pembuatan konkrit pratulangan, simen atau artikel batu								
&	buatan yang digunakan dalam pembinaan;								
23953	Pembuatan komponen struktur pasang siap untuk	-1.8	3.3	4.0	-1.2	1.8	3.3	-1.0	2.3
&	bangunan atau kejuruteraan awam dari simen, batu								
	atau konkrit buatan								
23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.								
23990	Pembuatan produk mineral bukan logam lain t.t.t.l.	-2.4	4.9	-5.1	-1.0	1.2	4.9	-5.7	-4.4
	Industri lain	0.3	-10.9	-0.9	-1.2	-0.8	-10.9	0.8	1.0
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	5.5	1.8	3.2	4.6	2.7	1.8	5.7	1.7
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	-5.4	-1.9	-5.0	-2.9	-2.8	-1.9	-5.5	-5.1
243	Pengacuan logam	-8.2	1.7	2.8	1.4	-0.4	1.7	-8.7	-1.4
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	9.4	-1.1	12.0	-1.2	-0.1	-1.1	10.3	8.9
25113	Pembuatan pintu, tingkap dan bingkai, penutup tingkap								
&	dan pintu pagar daripada logam								
25119	Pembuatan produk struktur logam lain	7.4	-1.8	12.2	-2.5	0.2	-1.8	9.5	8.0
25120	Pembuatan tangki, takungan dan kontena daripada								
	logam	14.7	1.5	13.2	7.5	2.9	1.5	16.4	12.5
	Industri lain	12.9	-1.2	9.6	-5.3	-5.6	-1.2	7.4	9.1
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	0.2	2.9	2.3	0.4	0.7	2.9	-0.1	0.5
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan								
	logam; serbuk metalurgi	5.9	2.2	7.9	2.9	2.1	2.2	7.3	7.0
25920	Rawatan dan penyalutan logam; menggunakan mesin	3.8	5.0	15.0	7.1	5.6	5.0	5.0	9.7
25991	Pembuatan tin untuk produk makanan dan minuman,								
	tiub dan kotak boleh dilipat	-0.5	0.4	-1.6	-0.3	-2.4	0.4	0.8	-0.3
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal)								
&	dan artikel seumpamanya daripada logam								
25993	Pembuatan bolt, skru, nat dan produk uliran	0.7	0.2	-3.2	-5.2	-1.7	0.2	-0.5	-3.3
	seumpamanya								
25994	Pembuatan barangan rumah daripada logam	-6.6	-7.5	-2.0	-11.5	-13.1	-7.5	-10.7	-3.1
25999	Pembuatan produk lain yang direka daripada logam								
	t.t.t.l.	-1.7	7.3	2.3	2.1	3.1	7.3	-2.8	-1.4
	Industri lain	-7.9	3.0	-6.9	-0.1	-1.0	3.0	-9.2	-8.4
261	Pembuatan komponen dan papan elektronik	-5.3	8.8	-1.4	6.5	7.6	8.8	-5.5	-3.6
26101	Pembuatan diod, transistor dan alatan semikonduktor								
&	yang seumpamanya								
26102	Pembuatan litar elektronik bersepadu dengan	-8.5	7.5	-3.7	4.6	7.2	7.5	-8.4	-5.5
	pemasangan mikro								
26103	Pembuatan kapasitor dan perintang elektrik								
&									
26104	Pembuatan papan litar bercetak	0.6	11.9	3.6	10.5	9.0	11.9	-1.1	0.2
&									
26105	Pembuatan komponen paparan								
26109	Pembuatan komponen lain untuk aplikasi elektronik	-9.7	2.1	-7.8	1.7	2.6	2.1	-5.1	-7.4
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	2.4	9.2	-5.7	5.0	7.6	9.2	-0.7	-0.5
263/ 26300	Pembuatan peralatan komunikasi	7.5	2.7	0.6	6.9	3.7	2.7	3.0	1.7
264/ 26400	Pembuatan peralatan elektronik pengguna	0.4	-0.6	-1.4	-1.6	-1.2	-0.6	-0.6	-0.8
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	-6.4	6.7	-5.2	2.2	3.9	6.7	-5.2	-5.7
26511	Pembuatan kelengkapan mengukur, menguji, memandu								
&	arah dan kawalan	-4.7	7.3	-4.2	3.6	6.2	7.3	-3.2	-4.0
26512	Pembuatan kelengkapan kawalan proses perindustrian								
26520	Pembuatan jam tangan dan jam dan bahagiannya	-11.6	4.9	-8.6	-2.5	-3.8	4.9	-11.6	-11.0
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	-3.4	0.1	-8.0	2.2	4.4	0.1	-3.5	-7.8

2021										2022		Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-2.3	0.8	0.8	-2.3	-0.7	-0.5	0.4	0.4	0.4	1.4	0.3	Manufacture of non-metallic mineral products	
											Manufacture of refractory mortars and concretes	
-2.2	1.3	0.4	-0.1	1.2	0.7	0.6	0.9	2.0	3.6	-6.0	Manufacture of non-refractory ceramic	
2.0	-2.4	1.4	-1.1	-2.6	-3.4	-8.0	-5.7	-6.5	-6.2	-5.7	Manufacture of other porcelain and ceramic products	
-2.1	-0.5	-1.9	-2.8	2.2	1.9	2.4	2.6	6.4	6.1	4.0	Manufacture of hydraulic cement	
-13.6	-3.7	-6.0	-7.2	-5.4	-2.9	-0.2	0.6	1.5	2.0	0.7	Manufacture of ready-mix and dry-mix concrete and mortars	
											Manufacture of precast concrete, cement or artificial stone articles for use in construction	
4.0	4.1	4.3	-1.2	1.3	1.2	1.8	0.0	1.4	3.3	3.9	Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone	
											Manufacture of other articles of concrete, cement and plaster n.e.c.	
-5.1	-0.7	3.1	-1.0	-0.7	-1.2	1.2	3.4	3.8	4.9	6.7	Manufacture of other non-metallic mineral products n.e.c.	
-0.9	1.9	2.3	-1.2	-1.6	-2.6	-0.8	0.0	-10.9	-10.9	-9.2	Other industry	
3.2	5.1	3.7	4.6	4.2	3.1	2.7	3.0	3.5	1.8	-0.6	Manufacture of basic iron and steel	
-5.0	-0.8	-0.6	-2.9	-3.3	-3.6	-2.8	-2.2	-2.1	-1.9	-0.9	Manufacture of basic precious and other non-ferrous metals	
2.8	1.5	1.1	1.4	-2.7	-0.8	-0.4	0.2	2.0	1.7	5.1	Casting of metals	
12.0	14.1	9.2	-1.2	-2.4	-1.9	-0.1	0.9	-1.0	-1.1	-1.5	Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition	
											Manufacture of metal doors, windows and their frames, shutters and gates	
12.2	17.5	12.5	-2.5	-2.4	-1.6	0.2	0.4	-2.3	-1.8	-2.0	Manufacture of other structural metal products	
											Manufacture of tanks, reservoirs and containers of metal	
13.2	12.1	9.0	7.5	0.7	0.1	2.9	3.7	3.2	1.5	0.7		
9.6	2.0	-5.1	-5.3	-6.6	-6.2	-5.6	-0.2	0.6	-1.2	-1.8	Other industry	
2.3	1.4	1.5	0.4	-1.3	-1.1	0.7	1.4	2.2	2.9	2.7	Manufacture of other fabricated metal products; metal working service activities	
											Forging, pressing, stamping and roll-forming of metal; powder metallurgy	
7.9	2.5	3.3	2.9	0.1	0.1	2.1	2.5	3.1	2.2	1.3	Treatment and coating of metals; machining	
15.0	13.0	9.2	7.1	4.4	4.8	5.6	3.9	4.1	5.0	5.1	Manufacture of tins and cans for food products, collapsible tubes and boxes	
-1.6	0.9	0.2	-0.3	-1.2	-3.2	-2.4	-0.9	-0.5	0.4	0.9	Manufacture of metal cable, plaited bands and similar articles	
-3.2	-1.6	-4.5	-5.2	-6.1	-5.4	-1.7	-1.8	0.3	0.2	-0.6	Manufacture of bolts, screws, nuts and similar threaded products	
-2.0	-2.5	-1.3	-11.5	-14.3	-13.8	-13.1	-11.9	-6.9	-7.5	-8.2	Manufacture of metal household articles	
2.3	4.1	3.1	2.1	0.6	1.2	3.1	5.0	4.1	7.3	7.8	Manufacture of any other fabricated metal products n.e.c.	
-6.9	-9.7	-0.8	-0.1	-1.3	-0.8	-1.0	1.4	3.0	3.0	3.6	Other industry	
-1.4	5.2	5.9	6.5	6.5	7.4	7.6	8.1	8.2	8.8	8.3	Manufacture of electronic components and boards	
											Manufacture of diodes, transistors and similar semiconductor devices	
-3.7	2.8	4.0	4.6	5.5	7.2	7.2	7.0	6.4	7.5	6.5		
											Manufacture of electronic integrated circuits micro assemblies	
											Manufacture of electrical capacitors and resistors	
3.6	10.3	9.7	10.5	8.9	8.7	9.0	10.8	11.9	11.9	11.7	Manufacture of printed circuit boards	
											Manufacture of display components	
-7.8	-1.0	1.1	1.7	2.2	2.0	2.6	2.4	2.8	2.1	3.2	Manufacture of other components for electronic applications	
-5.7	3.0	4.5	5.0	6.3	6.3	7.6	7.2	9.3	9.2	8.3	Manufacture of computers and peripheral equipment	
0.6	8.0	8.5	6.9	4.9	5.4	3.7	3.2	3.9	2.7	2.3	Manufacture of communication equipment	
-1.4	1.9	2.7	-1.6	-8.1	-3.8	-1.2	2.4	0.4	-0.6	1.2	Manufacture of consumer electronics	
-5.2	1.7	2.4	2.2	2.5	4.4	3.9	4.6	6.5	6.7	3.9	Manufacture of measuring, testing, navigating and control equipment; watches and clocks	
											Manufacture of measuring, testing, navigating and control equipment	
-4.2	3.0	3.4	3.6	4.4	6.6	6.2	6.7	6.5	7.3	3.4	Manufacture of industrial process control equipment	
-8.6	-2.5	-0.8	-2.5	-3.6	-2.8	-3.8	-2.5	6.5	4.9	5.8	Manufacture of watches and clocks and parts	
-8.0	0.9	1.2	2.2	3.4	4.7	4.4	3.6	1.1	0.1	-0.1	Manufacture of irradiation, electromedical and electrotherapeutic equipment	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	-2.6	-8.8	-10.6	-4.8	-4.9	-8.8	-1.2	-9.9
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	5.6	6.7	6.0	3.7	5.6	6.7	5.9	5.4
	27101 Pembuatan motor elektrik, penjana dan transformer	6.2	5.8	8.0	6.2	6.4	5.8	7.9	7.3
	27102 Pembuatan perkakasan pengagihan dan pengawalan	5.1	7.4	4.3	1.8	4.9	7.4	4.4	3.9
272/ 27200	Pembuatan bateri dan akumulator	9.4	-8.8	11.2	0.5	-2.2	-8.8	10.9	10.0
273	Pembuatan pendawaian dan peranti pendawaian	1.7	7.9	-1.0	9.6	9.4	7.9	0.3	-0.9
	27310 Pembuatan kabel gentian optikal	-11.5	-0.3	-11.7	-4.2	4.4	-0.3	-13.3	-12.9
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	2.5	7.2	-0.5	9.4	8.7	7.2	1.1	-0.2
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	0.5	22.1	-1.1	20.9	22.2	22.1	-1.1	-1.4
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	-11.6	-18.9	-11.3	-4.3	-9.0	-18.9	-11.5	-10.6
275/ 27500	Pembuatan perkakasan domestik	-4.0	3.3	-0.1	-1.7	-2.9	3.3	-5.5	-5.7
279/ 27900	Pembuatan kelengkapan elektrik lain	18.4	0.5	16.0	11.1	-0.3	0.5	18.7	16.8
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	0.9	1.1	3.1	3.1	0.3	1.1	1.5	1.6
	28120 & Pembuatan alat-alat kuasa bendalir								
	28130 Pembuatan pam, pemampat, kepala paip dan injap lain	-7.1	22.6	-6.9	-0.7	3.8	22.6	-7.4	-8.1
	28180 & Pembuatan alatan tangan yang menggunakan kuasa dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatik	0.9	-5.1	5.2	3.8	-0.8	-5.1	4.0	4.0
	28220 Pembuatan jentera pembentukan logam dan alatan mesin								
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	-3.6	-7.9	-9.6	-2.7	-7.5	-7.9	-14.4	-17.1
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	-8.3 5.8	-3.4 4.4	-5.4 9.1	-6.1 7.0	-6.9 3.9	-3.4 4.4	-4.5 7.2	-8.4 9.7
291 (29101 & 29102)	Pembuatan kenderaan bermotor	-9.5	1.7	-8.2	0.4	2.4	1.7	-9.9	-8.2
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	-14.7	-1.1	-19.6	-0.6	0.8	-1.1	-19.0	-19.8
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	-4.6	0.9	-5.6	0.9	0.5	0.9	-6.1	-5.8
301 (30110 & 30120)	Pembinaan kapal dan bot	-1.2	-0.6	-0.7	-1.8	-0.8	-0.6	-4.6	-1.8
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.	-12.4	1.5	-9.2	1.3	0.5	1.5	-10.5	-10.5
	30910 Pembuatan motosikal	-7.6	3.4	-7.6	0.7	2.5	3.4	-9.1	-8.7
	30920 Pembuatan basikal dan invalid carriages Industri lain	-23.0 -12.9	-7.1 2.1	-13.0 -9.4	6.3 0.6	-2.8 -0.2	-7.1 2.1	-15.6 -10.2	-13.3 -11.3
310	Pembuatan perabot	-2.9	4.0	-0.7	-2.5	4.6	4.0	-1.3	-1.1
	31001 Pembuatan perabot kayu dan rotan Industri lain	-3.4 -1.4	5.4 -0.4	-1.9 3.2	-5.3 6.8	4.3 5.5	5.4 -0.4	-2.7 3.4	-2.6 3.4
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	-9.8	-4.2	-9.0	-8.4	-7.5	-4.2	-9.4	-4.6
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	6.0	8.2	7.3	4.6	5.4	8.2	5.2	5.7
	32901 Pembuatan alat tulis Industri lain	5.6 6.1	3.0 9.9	-4.0 11.3	-4.6 7.8	-3.9 8.6	3.0 9.9	-3.3 8.3	-6.9 10.4
323/ 32300	Pembuatan barangan sukan	-1.2	13.0	14.7	6.9	5.4	13.0	12.1	14.3
324/ 32400	Pembuatan permainan dan mainan	-6.5	0.5	-8.3	-7.7	-6.5	0.5	-7.6	-8.8
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	-2.6	3.7	0.8	1.5	2.3	3.7	-2.4	-0.6
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal Industri lain	-5.9 -1.9	-7.3 6.1	-9.3 3.2	-7.3 3.5	-4.2 3.7	-7.3 6.1	-8.2 -1.1	-11.2 1.9
Jumlah Pembuatan		-2.0	2.7	-1.1	1.2	1.6	2.7	-2.4	-2.2

2021										2022		Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-10.6	-8.8	-6.9	-4.8	-5.4	-3.8	-4.9	-4.8	-9.7	-8.8	-13.3	Manufacture of optical instruments, photographic equipment, magnetic and optical media	
6.0	5.0	4.3	3.7	2.8	4.2	5.6	5.4	5.0	6.7	5.0	Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus	
8.0	7.0	6.0	6.2	5.7	6.3	6.4	5.4	4.2	5.8	1.8	Manufacture of electric motors, generators and transformers	
4.3	3.4	3.0	1.8	0.4	2.5	4.9	5.4	5.6	7.4	7.7	Manufacture of electricity distribution and control apparatus	
11.2	9.3	8.8	0.5	-1.3	3.7	-2.2	-2.2	-9.0	-8.8	-10.6	Manufacture of batteries and accumulators	
-1.0	4.7	7.6	9.6	8.8	8.4	9.4	5.3	5.7	7.9	8.6	Manufacture of wiring and wiring devices	
-11.7	-3.6	-2.9	-4.2	-2.9	-2.9	4.4	6.2	-2.2	-0.3	0.6	Manufacture of fibre optic cables	
-0.5	5.5	8.6	9.4	8.5	7.9	8.7	4.0	4.8	7.2	7.9	Manufacture of other electronic and electric wires and cables	
-1.1	-0.2	1.1	20.9	20.6	21.4	22.2	22.5	23.5	22.1	22.7	Manufacture of current -carrying and non current-carrying wiring devices for electrical circuits regardless of material	
-11.3	-5.2	-5.0	-4.3	-5.7	-8.1	-9.0	-10.4	-17.1	-18.9	-18.2	Manufacture of electric lighting equipment	
-0.1	0.4	0.7	-1.7	-2.7	-3.0	-2.9	1.2	2.2	3.3	3.4	Manufacture of domestic appliances	
16.0	16.8	16.3	11.1	3.7	2.3	-0.3	-2.4	-0.1	0.5	1.6	Manufacture of other electrical equipment	
3.1	4.2	3.5	3.1	0.9	1.0	0.3	1.2	1.5	1.1	1.4	Manufacture of general-purpose and special-purpose machinery	
											Manufacture of fluid power equipment	
-6.9	-5.0	0.4	-0.7	2.9	3.7	3.8	3.4	24.6	22.6	23.1	Manufacture of other pumps, compressors, taps and valves	
											Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives	
5.2	5.8	5.1	3.8	0.8	0.5	-0.8	0.6	-5.0	-5.1	-3.9	Manufacture of metal-forming machinery and machine tools	
-9.6	0.6	-0.5	-2.7	-5.8	-5.2	-7.5	-8.5	-8.0	-7.9	1.1	Manufacture of air-conditioning machines, including for motor vehicles	
-5.4	-2.6	-4.6	-6.1	-5.8	-6.6	-6.9	-4.9	-4.5	-3.4	-2.1	Manufacture of other special-purpose machinery	
9.1	7.2	6.0	7.0	3.9	4.2	3.9	4.8	5.2	4.4	2.1	Other industry	
-8.2	0.3	0.9	0.4	-0.2	0.6	2.4	3.8	1.4	1.7	1.9	Manufacture of motor vehicles	
-19.6	-3.6	5.1	-0.6	1.9	0.8	0.8	1.2	0.1	-1.1	-1.5	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	
-5.6	0.7	2.9	0.9	-0.3	-0.7	0.5	1.4	0.9	0.9	2.1	Manufacture of parts and accessories for motor vehicles	
-0.7	1.7	0.3	-1.8	-5.1	-4.7	-0.8	1.7	1.4	-0.6	-0.1	Building of ships and boats	
-9.2	0.6	0.4	1.3	-0.8	-0.7	0.5	1.6	1.2	1.5	0.2	Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c	
-7.6	0.6	0.5	0.7	0.4	1.0	2.5	4.2	3.2	3.4	3.1	Manufacture of motorcycles	
-13.0	9.0	8.1	6.3	3.9	3.1	-2.8	-3.6	-4.6	-7.1	-10.5	Manufacture of bicycles and invalid carriages	
-9.4	-1.4	-1.3	0.6	-2.8	-2.7	-0.2	0.9	0.9	2.1	0.7	Other industry	
-0.7	5.8	3.6	-2.5	-4.4	-4.1	4.6	4.5	4.7	4.0	4.4	Manufacture of furniture	
-1.9	2.8	2.0	-5.3	-7.5	-7.2	4.3	4.1	4.8	5.4	7.6	Manufacture of wooden and cane furniture	
3.2	16.0	8.6	6.8	5.7	5.7	5.5	6.1	4.2	-0.4	-5.0	Other industry	
-9.0	-3.4	-9.2	-8.4	-6.6	-6.9	-7.5	-6.4	-3.9	-4.2	-4.6	Manufacture of jewellery, bijouterie and related articles	
7.3	8.5	7.5	4.6	4.9	5.4	5.4	6.5	7.6	8.2	5.6	Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.	
-4.0	-1.8	-1.9	-4.6	-4.1	-3.9	-3.9	-1.0	1.8	3.0	2.0	Manufacture of stationery	
11.3	12.0	10.7	7.8	8.1	8.6	8.6	9.1	9.6	9.9	6.7	Other industry	
14.7	9.2	8.4	6.9	7.3	5.6	5.4	7.7	10.8	13.0	2.1	Manufacture of sports goods	
-8.3	-10.5	-6.9	-7.7	-7.4	-7.6	-6.5	-3.4	-2.2	0.5	-1.2	Manufacture of games and toys	
0.8	1.7	3.4	1.5	1.3	1.9	2.3	4.2	4.8	3.7	2.6	Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment	
-9.3	-3.7	-3.4	-7.3	-4.0	-4.1	-4.2	-4.7	-3.5	-7.3	-7.2	Repair and maintenance of transport equipment except motorcycles and bicycles	
3.2	2.9	4.9	3.5	2.4	3.2	3.7	6.0	6.5	6.1	4.7	Other industry	
-1.1	3.0	2.8	1.2	0.8	1.0	1.6	2.4	2.6	2.7	2.2	Total Manufacturing	

Jadual
Table **1.5c** : Bilangan Pekerja Bergaji Sektor Pembuatan Mengikut Kumpulan: Perubahan Peratusan Bulanan/Suku Tahunan
: Number of Paid Employees of Manufacturing Sector by Group: Monthly/Quarterly Percentage Change

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
101	Pemprosesan dan pengawetan daging	1.7	-0.2	3.7	-3.9	3.6	-0.8	-1.0
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	4.8	-2.9	0.5	-0.03	5.1	0.1	-0.4
10201 & 10202	Pengetinan ikan, krustasea dan moluska	3.8	-2.4	-0.7	-1.2	3.5	0.5	-0.2
	Pemprosesan dan pengawetan ikan, krustasea dan moluska							
	Industri lain	10.7	-5.9	7.9	6.3	15.0	-1.9	-1.8
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	1.2	-0.7	-8.7	-1.1	4.0	-1.3	-1.4
10303 & 10304	Pengetinan nanas	1.2	-1.8	-50.7	0.9	3.2	-0.9	-0.9
	Pembuatan jem, marmalad dan sajian jeli							
	Industri lain	1.2	-0.5	-4.1	-1.2	4.1	-1.4	-1.4
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	0.2	0.4	2.1	0.2	0.4	0.0	-0.3
10404 & 10406	Pembuatan minyak sayuran mentah dan bertapis	1.5	-0.8	0.0	4.8	-1.1	0.1	2.5
	Pembuatan sebatian lemak masakan							
10405	Pembuatan minyak kelapa	1.3	-1.1	-0.02	2.6	0.4	0.8	0.1
	Industri lain	0.1	0.5	2.3	-0.2	0.5	0.0	-0.4
105	Pembuatan produk tenusu	6.3	0.7	0.1	-4.9	4.5	0.9	0.8
10502	Pembuatan susu pekat, tepung dan sejat	7.0	0.4	0.5	-4.5	6.2	0.4	0.4
	Industri lain	4.3	1.4	-1.0	-6.1	-0.1	2.2	2.1
106	Pembuatan produk bijian, kanji dan produk berkanji	2.4	-0.05	3.1	-0.4	3.0	-0.6	0.1
10611 & 10613	Pengilangan beras	5.2	-1.0	6.7	-6.0	6.4	-0.9	-0.2
	Pengilangan tepung	0.2	1.5	0.4	3.4	-0.4	-0.1	0.7
	Industri lain	-0.3	-2.6	-2.2	10.8	2.6	-1.3	-1.6
107	Pembuatan produk makanan lain	4.5	0.5	0.4	0.9	4.2	0.2	0.1
10711 & 10712	Pembuatan biskut dan cookies	-1.0	-0.1	0.0	19.7	0.0	-0.5	-0.5
	Pembuatan roti, kek dan produk bakeri lain	1.9	4.9	1.4	-0.8	1.8	0.1	0.0
10713	Pembuatan produk snek	1.2	-0.5	-4.4	-0.01	3.3	-1.0	-1.0
10721	Pembuatan gula	-0.3	-1.0	1.2	-3.1	-0.5	0.1	0.1
10731	Pembuatan produk koko	-1.3	-1.7	-1.2	-1.1	-0.1	-0.6	-0.6
10732 & 10733	Pembuatan coklat dan produk coklat	-0.6	-1.3	-1.5	-4.7	0.7	-0.6	-0.8
	Pembuatan konfeksi gula							
10793	Pembuatan sos dan bahan perasa	12.7	-2.1	1.0	6.2	14.4	-0.8	-0.7
10799	Pembuatan produk makanan lain f.t.t.l.	14.9	-1.5	0.4	-5.3	10.3	3.6	0.6
	Industri lain	5.6	-0.4	1.2	-1.1	4.6	0.01	1.0
108/10800	Pembuatan makanan haiwan tersedia	-1.0	-0.2	-10.6	-5.9	-1.2	0.2	0.03
110	Pembuatan minuman ringan	2.8	-3.0	2.5	-0.5	1.9	0.5	0.3
11041 & 11042	Pembuatan minuman ringan	0.2	-1.3	-0.9	1.9	-0.4	0.4	0.3
	Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	2.0	-6.3	2.6	-1.7	1.4	0.3	0.3
	Industri lain	26.5	-5.0	25.4	-11.0	23.3	2.4	0.2
120/12000	Pembuatan produk tembakau	21.7	-18.5	3.9	0.2	7.2	14.9	-1.2
131	Pemintalan, penenunan dan penyiapan tekstil	0.7	-2.7	0.7	0.9	-0.7	1.2	0.3
13110 & 13120	Penyediaan dan pemintalan gentian tekstil	-0.6	-2.2	-2.5	-0.5	-1.1	0.9	-0.5
	Penenunan tekstil							
13132	Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	6.0	0.1	10.4	8.1	-1.0	3.5	3.5
	Industri lain	-2.1	-21.6	2.9	-20.9	4.9	-3.4	-3.3
139	Pembuatan tekstil lain	4.4	0.05	1.3	2.3	4.8	-1.0	0.6
13910	Pembuatan fabrik dikait dan dikrusye	2.4	2.6	2.3	3.16	3.1	-0.3	-0.4
	Industri lain	5.8	-1.6	0.5	1.8	6.0	-1.5	1.3
141	Pembuatan pakaian, kecuali pakaian berbulu	0.7	-4.4	-1.3	7.3	0.1	0.6	-0.02
14102	Pembuatan pakaian	0.4	-2.3	-1.1	6.3	-0.5	0.8	0.1
	Industri lain	1.4	-9.9	-1.9	10.1	1.6	0.1	-0.3
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	-4.3	-0.8	-16.4	1.9	-4.3	1.9	-1.9
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan bagasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	0.8	-2.9	6.6	3.3	0.2	1.4	-0.7
152	Pembuatan kasut	2.2	-3.5	-0.1	1.8	2.9	1.6	-2.3
15201 & 15203	Pembuatan kasut kulit	0.5	-5.0	-2.3	5.0	2.4	1.2	-3.0
	Pembuatan kasut getah							
	Industri lain	4.4	-1.7	2.5	-1.9	3.6	2.2	-1.3
161/16100	Pengilangan dan pengetaman kayu	0.9	-7.7	11.1	0.7	1.1	0.1	-0.3

(%)

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-0.02	0.05	-0.3	-0.1	-0.6	4.4	-2.7	-0.4	-0.8	3.7		Processing and preserving of meat
-1.2	-1.1	-0.7	0.1	-0.7	1.1	-0.8	-0.7	1.5	2.5		Processing and preserving of fish, crustaceans and molluscs
											Canning of fish, crustaceans and molluscs
-1.1	-1.1	-0.2	-0.6	-0.7	0.6	-1.0	-1.4	1.3	3.1		Processing, curing and preserving of fish, crustacean and molluscs
-1.4	-1.3	-3.3	4.6	-0.7	4.0	0.1	3.6	2.5	-0.6		Other industry
0.6	-1.2	-0.1	0.9	-8.1	-1.4	-2.2	-0.7	1.9	4.8		Processing and preserving of fruits and vegetable
											Pineapple canning
-1.3	-0.2	-0.2	-0.6	-50.1	-0.7	-0.2	-1.6	2.7	-4.3		Manufacture of jams, marmalades and table jellies
0.8	-1.2	-0.04	1.0	-3.6	-1.4	-2.3	-0.7	1.8	5.3		Other industry
0.04	0.4	0.02	0.9	-0.1	1.3	-2.0	1.6	0.6	0.2		Manufacture of vegetable and animal oils and fats
											Manufacture of crude and refined vegetable oil
-0.8	0.8	-0.8	0.0	0.1	-0.1	0.0	4.6	0.2	-1.5		Manufacture of compound cooking fats
-0.7	-0.4	0.0	-0.9	0.8	0.1	0.0	2.8	-0.1	0.7		Manufacture of coconut oil
0.1	0.4	0.1	1.0	-0.1	1.4	-2.1	1.4	0.6	0.3		Other industry
1.0	-0.3	-0.05	-0.4	0.4	0.1	-4.5	-0.4	0.02	-1.4		Manufacture of dairy products
0.7	-0.3	0.03	-0.2	0.8	-0.1	-4.7	-0.02	0.2	-2.2		Manufacture of condensed, powdered and evaporated milk
1.9	-0.3	-0.3	-0.8	-0.7	0.5	-4.2	-1.6	-0.4	0.8		Other industry
-0.3	0.4	-0.2	-0.1	1.0	2.2	-0.4	-0.8	0.8	0.6		Manufacture of grain mill products, starches and starch products
-0.9	0.4	-0.4	-0.2	3.5	3.3	-0.8	-4.6	-0.7	2.2		Rice milling
0.3	1.1	0.1	0.1	-0.6	0.9	-0.4	2.1	1.7	0.1		Flour milling
-0.1	-2.1	-0.4	-0.7	-3.9	2.5	1.7	5.3	3.4	-4.4		Other industry
0.3	-0.7	0.9	0.2	-0.2	0.3	-0.2	1.1	-0.03	2.3		Manufacture of other food products
0.9	-1.4	0.4	-0.9	-0.1	1.1	2.7	17.6	-0.9	0.7		Manufacture of biscuits and cookies
1.8	-0.6	3.7	0.2	0.4	0.7	-1.5	0.5	0.2	1.0		Manufacture of bread, cakes and other bakery products
-0.6	-0.4	0.5	-0.6	-0.3	-3.5	-0.8	0.3	0.5	0.5		Manufacture of snack products
-0.7	-0.2	-0.1	-0.3	1.2	0.3	-2.8	-2.0	1.7	-0.2		Manufacture of sugar
-0.9	-1.2	0.5	0.3	-1.2	-0.3	-3.2	1.4	0.8	0.5		Manufacture of cocoa products
											Manufacture of chocolate and chocolate products
-0.2	-0.4	-0.7	-0.8	-0.1	-0.6	0.7	-5.4	0.04	-2.2		Manufacture of sugar confectionery
-0.4	-0.7	-0.9	-0.5	0.5	1.0	0.5	4.3	1.3	3.2		Manufacture of sauces and condiments
-1.5	-0.5	0.4	0.6	-2.1	1.9	-0.9	-4.1	-0.4	10.5		Manufacture of other food products n.e.c.
0.2	-0.6	0.1	1.1	-0.02	0.1	0.2	-0.9	-0.4	2.5		Other industry
0.3	-0.2	-0.4	1.9	-12.3	0.1	-2.2	-2.7	-1.2	0.5		Manufacture of prepared animal feeds
-1.0	-0.7	-1.3	-0.1	2.4	0.2	-1.7	0.0	1.2	1.0		Manufacture of beverages
-0.7	-0.7	0.1	-1.3	0.04	0.4	0.0	0.3	1.6	-0.1		Manufacture of soft drinks
-1.5	-1.0	-4.0	3.3	-0.7	-0.05	-4.0	2.2	0.2	0.8		Production of natural mineral waters and other bottled waters
-1.1	-0.5	-3.5	-1.1	27.0	-0.1	-6.1	-6.7	1.5	8.5		Other industry
-18.4	0.3	-0.5	-3.3	-4.7	12.7	0.2	0.1	-0.03	7.5		Manufacture of tobacco products
-0.1	0.2	-2.8	-1.2	1.8	0.1	0.9	-1.7	1.7	-1.2		Spinning, weaving and finishing of textiles
											Preparation and spinning of textile fibres
-0.3	-0.2	-1.8	-1.3	-1.0	-0.3	-0.4	0.01	-0.1	-2.2		Weaving of textiles
0.5	0.0	-0.5	2.2	3.9	4.0	5.2	-3.7	6.8	-0.2		Dyeing, bleaching, printing and finishing of yarns and fabrics
-1.1	6.9	-25.8	-18.8	48.2	-14.5	-2.8	-18.6	0.0	13.4		Other industry
0.2	2.0	-2.1	-0.1	0.03	1.3	-0.2	2.7	-0.1	0.2		Manufacture of other textiles
0.9	2.1	-0.4	0.1	-0.3	2.6	0.5	2.0	0.7	0.7		Manufacture of knitted and crocheted fabrics
-0.2	1.9	-3.2	-0.1	0.3	0.4	-0.7	3.1	-0.6	-0.1		Other industry
-0.4	1.2	-5.2	-0.7	1.0	-1.5	-0.4	7.2	0.5	0.4		Manufacture of wearing apparel, except fur
-0.1	1.9	-4.0	-0.6	1.2	-1.6	-0.9	6.9	0.4	-1.2		Manufacture of clothings
-1.3	-0.5	-8.2	-1.0	0.4	-1.3	0.8	8.3	0.9	4.8		Other industry
-0.4	-0.4	0.0	-0.3	-16.4	0.2	-3.4	3.8	1.7	2.8		Manufacture of articles of fur, knitted and crocheted apparel
											Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur
-0.04	0.6	-3.5	-2.0	4.6	4.0	2.9	0.5	-0.1	-0.4		
0.5	0.05	-4.0	-1.4	-0.8	2.1	1.3	0.7	-0.2	3.8		Manufacture of footwear
											Manufacture of leather footwear
1.2	0.4	-6.5	-0.6	-1.0	-0.7	3.0	1.8	0.1	5.4		Manufacture of rubber footwear
-0.5	-0.4	-0.8	-2.5	-0.5	5.6	-0.7	-0.7	-0.5	1.9		Other industry
0.9	-0.1	-8.4	6.9	1.8	2.1	-0.1	0.6	0.3	1.2		Sawmilling and planning of wood

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	-1.8	0.9	2.7	0.2	0.9	-1.2	-1.5
16211	Pembuatan kepingan venier dan papan lapis	-3.6	0.8	5.4	-1.4	-0.7	-1.4	-1.5
16212	Pembuatan papan partikel dan papan gentian	0.6	-6.7	-2.3	6.1	0.3	0.2	0.2
16221	Perfukangan kayu untuk jurubina	3.0	2.9	0.2	-5.9	5.2	-0.9	-1.1
	Industri lain	-2.0	4.1	-0.8	9.0	2.5	-1.7	-2.7
170	Pembuatan kertas dan produk kertas	1.9	-2.0	1.1	2.6	1.4	0.6	-0.1
17010	Pembuatan pulpa, kertas dan kertas tebal	1.4	-3.0	0.9	8.1	0.5	0.4	0.4
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	0.9	-0.7	0.1	1.2	0.1	0.5	0.3
17091	Pembuatan sampul surat dan kad surat	3.0	-2.5	-1.3	-5.0	4.6	-0.8	-0.8
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	1.0	-1.0	0.2	5.9	1.8	-0.4	-0.5
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	7.3	-5.5	6.7	-0.9	2.3	4.7	0.2
	Industri lain	1.3	-2.6	0.8	0.5	4.8	-1.8	-1.6
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	0.9	-3.9	-0.9	7.9	0.3	0.1	0.5
18110	Percetakan	1.1	-3.8	-1.0	8.7	0.5	0.03	0.6
18120	Aktiviti perkhidmatan berkaitan percetakan							
&		0.2	-4.0	-0.4	4.4	-0.3	0.2	0.3
18200	Penerbitan semula media rakaman							
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	3.5	-2.3	2.0	-0.3	1.0	0.02	2.5
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	-2.2	-3.2	0.6	-3.1	-2.2	-0.1	0.1
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	7.4	-0.7	1.9	-24.8	8.4	-0.5	-0.5
20112	Pembuatan kimia organik asas							
&		0.7	-2.1	1.0	9.4	1.2	-0.3	-0.3
20113	Pembuatan sebatian bukan organik							
20121	Pembuatan baja							
&		3.4	-8.8	1.1	-13.0	3.0	-0.3	0.6
20129	Pembuatan produk campuran nitrogen							
20131	Pembuatan plastik dalam bentuk primer	-15.8	-0.8	-1.6	-1.4	-16.5	0.4	0.4
	Industri lain	4.3	-3.1	1.6	11.2	2.8	1.1	0.4
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	9.2	-3.2	-1.1	3.6	3.6	-0.2	5.5
20210	Pembuatan racun perosak dan produk agrokimia lain	14.2	-1.5	-0.7	5.7	20.7	-2.7	-2.7
20221	Pembuatan cat, varnis dan penyadur dan mastik	19.5	-16.7	-2.7	-3.2	3.5	-3.1	19.0
20222	Pembuatan dakwat cetak	23.1	0.8	0.0	0.4	0.0	0.1	23.0
20231	Pembuatan sabun dan bahan pencuci, penyediaan							
&	membersih dan mengilat	1.6	0.8	-1.7	-0.5	0.8	0.4	0.4
20232	Pembuatan pewangi dan penyediaan dandanan diri							
20291	Pembuatan plat fotografi, filem, sensitized paper dan other sensitized unexposed materials							
&								
20292	Pembuatan dakwat menulis dan melukis	8.1	0.8	0.4	15.8	5.2	2.0	0.7
&								
20299	Pembuatan produk kimia lain t.t.t.l.							
	Industri lain	-2.9	0.6	-1.0	-8.6	-1.0	-1.0	-1.0
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	0.3	12.1	1.1	-5.5	-0.1	0.6	-0.2
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	0.5	11.1	0.2	-3.0	-0.2	1.0	-0.3
	Industri lain	-0.2	14.8	3.1	-11.2	0.2	-0.2	-0.2
221	Pembuatan produk getah	0.9	3.7	-1.3	-2.5	0.8	-0.5	0.7
22111	Pembuatan tayar getah untuk kenderaan	-1.3	8.9	-12.5	2.4	1.6	-1.4	-1.4
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	-3.8	-5.9	5.2	8.0	-0.1	-1.9	-1.8
22191	Pembuatan produk lain daripada getah asli atau sintetik, &							
&	tidak divulkan, divulkan atau dikeraskan	-0.3	-0.2	-3.3	-3.2	0.3	-1.2	0.6
22193	Pengilangan semula getah dan prosesan susu getah							
22192	Pembuatan sarung tangan getah	1.2	5.4	-0.2	-6.0	0.1	-0.2	1.3
22199	Pembuatan produk getah lain yang t.t.t.l.	2.0	2.1	-0.4	3.4	2.3	-0.5	0.1
222	Pembuatan produk plastik	0.8	-0.2	-2.1	1.3	1.3	-0.5	-0.01
22201	Pembuatan produk plastik separa siap							
&		-1.2	1.3	-3.3	-1.9	0.1	-0.9	-0.4
22202	Pembuatan produk plastik siap							
22203	Pembuatan artikel plastik untuk pembungkusan barangan	0.8	0.5	-1.1	3.7	2.1	-0.9	-0.4
22204	Pembuatan barangan plastik jurubina	3.7	-3.9	0.2	0.4	2.9	0.6	0.2
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	3.0	-0.9	-1.6	0.3	1.9	0.2	0.8
22209	Pembuatan pelbagai produk plastik t.t.t.l.	1.5	-1.4	-2.4	1.5	1.2	-0.02	0.3
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	1.6	-2.0	-1.6	7.7	1.0	0.3	0.3

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-0.4	3.9	-2.5	0.9	0.1	1.7	-0.2	1.5	-1.1	0.1		Manufacture of products of wood, cork, straw and plaiting materials
-0.8	4.7	-3.1	1.6	0.7	3.1	-1.5	0.8	-0.7	-1.7		Manufacture of veneer sheets and plywood
-0.6	0.03	-6.2	-0.3	-0.8	-1.2	1.4	3.8	0.8	1.9		Manufacture of particle board and fibreboard
1.2	1.9	-0.2	-0.4	-0.1	0.7	0.8	-5.2	-1.6	0.1		Manufacture of builders' carpentry
-0.9	5.9	-0.8	0.5	-1.3	-0.04	2.4	9.1	-2.6	4.8		Other industry
-0.7	-0.3	-1.0	-0.6	0.01	1.7	1.5	1.7	-0.7	0.7		Manufacture of paper and paper products
-1.1	-0.4	-1.5	-0.04	-0.9	1.9	7.2	0.7	0.1	0.2		Manufacture of pulp, paper and paperboard
-0.7	0.01	0.1	-3.4	1.3	2.2	1.6	0.1	-0.5	-0.1		Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
-2.1	-0.3	-0.1	-0.4	-0.5	-0.4	-0.8	-3.5	-0.8	2.9		Manufacture of envelopes and letter-card
-0.3	-0.6	-0.2	-0.5	-0.4	1.1	-0.3	8.6	-2.2	0.7		Manufacture of household and personal hygiene paper
-0.8	-0.2	-4.4	6.3	-0.6	1.0	-0.9	0.03	-0.04	0.6		Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
0.4	-0.8	-2.2	0.7	-2.2	2.4	0.2	0.9	-0.5	4.1		Other industry
-3.0	0.3	-1.2	-0.5	0.1	-0.6	4.1	3.1	0.5	0.1		Printing, service activities related to printing and reproduction of recorded media
-3.1	0.3	-1.1	-0.5	0.04	-0.6	4.2	3.7	0.6	0.1		Printing
-2.5	-0.1	-1.5	-0.4	0.5	-0.6	3.5	0.7	0.2	0.1		Service activities related to printing
											Reproduction of recorded media
-2.6	0.04	0.3	1.9	0.02	0.1	-0.5	-0.5	0.7	-0.3		Manufacture of refined petroleum products
-2.3	-0.4	-0.4	0.9	-0.03	-0.3	-0.5	-2.6	-0.01	0.6		Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
0.0	-1.3	0.5	1.2	0.1	0.7	-0.9	-24.0	-0.1	2.8		Manufacture of liquefied or compressed inorganic industrial or medical gases
-0.6	-0.1	-1.4	1.5	-0.1	-0.5	0.6	8.2	0.5	0.1		Manufacture of basic organic chemicals
											Manufacture of inorganic compounds
-8.6	-0.2	-0.1	1.7	0.1	-0.7	-1.1	-11.1	-1.1	1.2		Manufacture of fertilizers
-0.1	-0.8	0.1	-0.6	-0.3	-0.6	-1.5	0.3	-0.2	-0.6		Manufacture of associated nitrogen products
-2.9	0.5	-0.7	-0.5	1.0	1.1	-0.2	10.3	1.1	2.5		Manufacture of plastics in primary forms
											Other industry
-4.3	0.9	0.3	-1.1	-0.3	0.3	2.8	1.3	-0.5	0.7		Manufacture of other chemical products and man-made fibres
-0.3	-1.2	-0.1	-0.2	-0.6	0.1	0.6	4.1	1.0	0.6		Manufacture of pesticides and other agrochemical products
-16.3	-0.3	-0.1	0.1	-0.8	-1.9	0.3	-2.2	-1.2	3.7		Manufacture of paints, varnishes and similar coatings ink and
-1.4	0.3	1.9	0.2	-0.3	0.1	-2.0	2.5	-0.1	0.2		Manufacture of printing ink
-1.4	2.5	-0.2	-1.9	-0.3	0.5	-0.2	0.4	-0.7	0.04		Manufacture of soap and detergents, cleaning and polishing preparations
											Manufacture of perfumes and toilet preparations
											Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
-0.2	0.2	0.9	-1.4	0.2	1.7	11.7	4.2	-0.5	-0.1		Manufacture of writing and drawing ink
											Manufacture of other chemical products n.e.c.
-0.3	-0.3	1.3	-0.3	0.0	-0.6	0.0	-8.0	-0.6	2.2		Other industry
12.8	-0.8	0.2	0.8	0.9	-0.7	-0.6	-5.1	0.2	-1.6		Manufacture of pharmaceuticals, medicinal chemical and botanical products
12.0	-0.7	-0.1	0.7	0.8	-1.2	0.3	-3.0	-0.3	-2.9		Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
14.8	-0.9	0.9	0.9	1.4	0.8	-2.6	-10.2	1.5	1.6		Other industry
4.2	-0.3	-0.2	-0.7	-0.4	-0.2	-0.3	-1.8	-0.4	2.2		Manufacture of rubber products
8.9	0.3	-0.2	-12.0	-0.2	-0.4	-0.7	1.2	1.8	1.7		Manufacture of rubber tyres for vehicles
3.3	-3.6	-5.4	0.5	3.0	1.6	1.9	7.2	-1.2	0.4		Manufacture of interchangeable tyre treads and retreading rubber tyres
1.6	-1.4	-0.4	0.9	-0.7	-3.4	-1.2	-1.7	-0.2	0.8		Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
4.7	0.1	0.5	-0.2	-0.3	0.3	-0.6	-4.9	-0.6	3.4		Rubber remilling and latex processing
3.6	-0.4	-1.1	-0.1	-0.6	0.4	0.6	3.4	-0.5	0.7		Manufacture of rubber gloves
1.3	-0.3	-1.2	-0.8	-0.4	-0.9	0.3	0.8	0.2	-1.0		Manufacture of other rubber products n.e.c.
											Manufacture of plastics products
											Manufacture of semi-manufactures of plastic products
3.7	-0.5	-1.9	-2.1	-0.9	-0.3	0.2	-2.0	-0.2	-1.1		Manufacture of finished plastic products
1.2	-0.1	-0.5	-1.1	-0.2	0.2	0.9	2.2	0.6	-1.5		Manufacture of plastic articles for the packing of goods
-0.3	-1.0	-2.7	0.3	0.3	-0.5	1.2	-1.2	0.4	0.9		Manufacture of builders' plastics ware
0.3	0.02	-1.3	-2.0	0.5	-0.04	0.6	0.1	-0.4	14.9		Manufacture of plastic tableware, kitchenware and toilet articles
0.1	-0.3	-1.2	0.5	-0.5	-2.4	-0.2	1.6	0.1	-4.4		Manufacture of diverse plastic products n.e.c.
0.6	-1.2	-1.4	-0.5	0.1	-1.3	3.0	-0.5	5.1	1.2		Manufacture of glass and glass products

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	0.6	-1.2	1.6	0.5	2.1	-2.0	0.5
23911	Pembuatan mortar refraktori dan konkrit							
&		6.1	-0.8	-2.7	1.2	3.3	-2.7	5.5
23921	Pembuatan seramik bukan refraktori							
23930	Pembuatan produk porselin dan seramik lain	-4.9	1.9	-4.7	1.5	1.2	-5.6	-0.5
23941	Pembuatan simen hidrolik	2.4	-0.02	-0.3	4.1	2.4	-0.1	0.1
23951	Pembuatan konkrit dan mortar siap bancuh dan banchuan kering	-4.7	1.2	6.9	-1.1	2.2	-6.3	-0.5
23952	Pembuatan konkrit pratuangan, simen atau artikel batu buatan yang digunakan dalam pembinaan;							
&								
23953	Pembuatan komponen struktur pasang siap untuk bangunan atau kejuruteraan awam dari simen, batu atau konkrit buatan	1.9	-3.6	2.2	2.8	1.1	0.3	0.5
&								
23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.							
23990	Pembuatan produk mineral bukan logam lain t.t.t.l.	2.0	-1.8	2.7	2.1	2.2	0.2	-0.4
	Industri lain	-0.3	-0.3	0.4	-10.6	3.7	-2.0	-1.8
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	-1.3	-1.7	-2.0	7.1	1.8	-2.7	-0.3
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	1.6	-4.2	0.1	0.8	0.3	1.5	-0.2
243	Pengacuan logam	7.4	-7.0	-0.03	1.8	0.6	3.1	3.5
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	1.6	-6.1	4.1	-0.3	0.5	-0.1	1.1
25113	Pembuatan pintu, tingkap dan bingkai, penutup tingkap dan pintu pagar daripada logam	2.4	-7.2	5.3	-1.8	0.6	-0.01	1.7
25119	Pembuatan produk struktur logam lain							
25120	Pembuatan tangki, takungan dan kontena daripada logam	-0.3	-2.3	3.0	1.3	0.04	-0.1	-0.2
	Industri lain	0.3	-5.7	-0.4	4.9	0.8	-0.6	0.1
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	2.5	-2.4	0.4	2.4	0.7	0.8	1.0
25910	Tempaan, tekanan, hentakan dan bentuk geleskan logam; serbuk metalurgi	1.1	-0.7	0.5	1.2	2.0	-0.2	-0.7
25920	Rawatan dan penyalutan logam; menggunakan mesin	10.3	-6.6	-2.4	4.4	0.6	4.9	4.5
25991	Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat	-1.1	-1.1	-1.7	4.4	1.4	-1.2	-1.3
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal) dan artikel seumpamanya daripada logam							
&		-1.6	-2.1	3.1	0.9	0.2	-1.2	-0.6
25993	Pembuatan bolt, skru, nat dan produk uliran seumpamanya							
25994	Pembuatan barangan rumah daripada logam	2.2	-11.0	-2.5	4.2	0.2	1.0	1.0
25999	Pembuatan produk lain yang direka daripada logam t.t.t.l.	5.3	-1.3	0.5	2.8	0.1	2.4	2.8
	Industri lain	1.4	-1.9	1.1	2.5	-0.4	-0.1	1.9
261	Pembuatan komponen dan papan elektronik	1.9	2.2	1.0	3.5	0.1	1.2	0.6
26101	Pembuatan diod, transistor dan alatan semikonduktor yang seumpamanya							
&		1.8	2.4	1.8	1.4	0.1	1.3	0.4
26102	Pembuatan litar elektronik bersepadu dengan pemasangan mikro							
26103	Pembuatan kapasitor dan perintang elektrik							
&								
26104	Pembuatan papan litar bercetak	2.7	1.9	0.1	6.8	0.2	1.3	1.2
&								
26105	Pembuatan komponen paparan							
26109	Pembuatan komponen lain untuk aplikasi elektronik	-0.7	2.2	-1.5	2.1	-0.2	0.1	-0.6
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	1.5	1.1	3.3	3.1	1.3	0.6	-0.4
263/ 26300	Pembuatan peralatan komunikasi	-1.8	4.1	-0.1	0.6	-1.0	-0.2	-0.7
264/ 26400	Pembuatan peralatan elektronik pengguna	-1.1	-0.3	2.2	-1.4	-0.8	-0.1	-0.1
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	4.0	-0.3	0.6	2.4	3.5	0.1	0.3
26511	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan	4.5	0.4	1.5	0.8	4.8	-0.3	-0.02
26512	Pembuatan kelengkapan kawalan proses perindustrian							
26520	Pembuatan jam tangan dan jam dan bahagiannya	2.3	-2.9	-2.2	8.0	-0.8	1.6	1.6
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	-0.2	1.6	2.3	-3.4	-0.4	0.1	0.1

2021					2022					Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
0.8	0.02	-2.0	0.7	0.1	0.8	-0.6	0.8	0.3	1.0	Manufacture of non-metallic mineral products Manufacture of refractory mortars and concretes Manufacture of non-refractory ceramic Manufacture of other porcelain and ceramic products Manufacture of hydraulic cement Manufacture of ready-mix and dry-mix concrete and mortars Manufacture of precast concrete, cement or artificial stone articles for use in construction Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone Manufacture of other articles of concrete, cement and plaster n.e.c. Manufacture of other non-metallic mineral products n.e.c. Other industry
0.0	0.0	-0.8	-2.4	-0.5	0.1	-2.5	3.2	0.6	-6.3	
0.1	3.5	-1.6	-0.8	-0.4	-3.5	1.8	-0.5	0.2	1.8	
1.0	-0.7	-0.3	-0.2	-0.3	0.1	0.03	3.7	0.3	0.3	
2.3	0.3	-1.4	1.7	2.7	2.3	-2.9	1.7	0.2	0.9	
0.0	-0.5	-3.1	1.9	-0.7	1.0	-0.2	2.6	0.4	1.7	
0.8	0.7	-3.3	1.0	-0.4	2.0	2.2	0.2	-0.4	3.9	
2.2	-0.8	-1.6	-0.03	-0.2	0.6	0.1	-10.8	0.1	5.6	
-2.1	-0.1	0.5	-1.8	-0.2	0.1	2.3	-0.2	4.9	-0.6	Manufacture of basic iron and steel
-0.8	-0.6	-2.8	-0.7	-0.1	0.9	0.5	0.2	0.02	1.4	Manufacture of basic precious and other non-ferrous metals
-5.0	-1.6	-0.5	-2.8	2.5	0.4	0.0	1.7	0.2	4.0	Casting of metals
-1.7	-0.1	-4.5	1.2	0.1	2.6	0.3	-1.0	0.3	0.1	Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition
-1.7	0.5	-6.0	1.8	0.5	3.0	0.1	-2.4	0.5	0.3	Manufacture of metal doors, windows and their frames, shutters and gates
-0.2	-0.6	-1.6	0.8	-1.2	3.3	0.6	0.8	-0.1	-0.8	Manufacture of other structural metal products
-3.2	-2.4	-0.2	-0.8	0.1	0.2	1.1	3.6	0.2	0.1	Manufacture of tanks, reservoirs and containers of metal
										Other industry
-0.7	-0.5	-1.2	-0.8	-0.03	1.2	0.7	0.7	1.0	0.5	Manufacture of other fabricated metal products; metal working service activities
-0.4	0.1	-0.4	-1.3	0.0	1.9	0.7	0.4	0.1	1.1	Forging, pressing, stamping and roll-forming of metal; powder metallurgy
-3.7	-0.7	-2.4	0.4	-2.2	-0.7	1.9	1.5	0.9	0.7	Treatment and coating of metals; machining
0.6	-1.0	-0.7	-1.1	-0.7	0.1	1.7	1.1	1.5	1.9	Manufacture of tins and cans for food products, collapsible tubes and boxes
-0.7	-0.8	-0.6	-1.0	0.6	3.5	-0.6	1.3	0.3	-0.6	Manufacture of metal cable, plaited bands and similar articles
-1.2	0.6	-10.4	-3.9	0.5	0.9	-0.2	5.0	-0.5	-0.6	Manufacture of bolts, screws, nuts and similar threaded products
0.3	-0.7	-0.9	-0.7	0.5	0.7	0.4	-0.7	3.1	0.5	Manufacture of metal household articles
-0.5	-0.5	-0.9	0.7	0.5	-0.1	1.6	0.8	0.1	0.2	Manufacture of any other fabricated metal products n.e.c.
										Other industry
1.1	0.4	0.6	0.2	0.8	-0.05	2.0	0.8	0.6	-0.4	Manufacture of electronic components and boards
1.8	0.5	0.1	0.3	1.4	0.1	0.3	0.5	0.6	-0.9	Manufacture of diodes, transistors and similar semiconductor devices
										Manufacture of electronic integrated circuits micro assemblies
										Manufacture of electrical capacitors and resistors
0.2	0.2	1.5	0.2	0.2	-0.2	4.7	1.2	0.8	0.02	Manufacture of printed circuit boards
0.8	1.1	0.3	-0.5	-0.7	-0.3	0.3	1.6	0.2	0.9	Manufacture of display components
										Manufacture of other components for electronic applications
-0.1	1.0	0.2	1.4	0.7	1.1	0.1	2.8	0.1	0.5	Manufacture of computers and peripheral equipment
1.5	1.1	1.5	-0.4	0.5	-0.2	0.5	0.9	-0.7	-1.3	Manufacture of communication equipment
-0.8	0.9	-0.5	-5.0	4.6	2.9	1.8	-2.0	-1.2	1.0	Manufacture of consumer electronics
0.2	0.2	-0.7	0.0	0.6	0.03	0.3	1.9	0.2	0.8	Manufacture of measuring, testing, navigating and control equipment; watches and clocks
0.4	0.4	-0.3	0.5	0.7	0.2	0.6	-0.2	0.4	1.0	Manufacture of measuring, testing, navigating and control equipment
-0.6	-0.5	-1.9	-1.9	0.2	-0.5	-0.7	9.5	-0.6	0.1	Manufacture of industrial process control equipment
										Manufacture of watches and clocks and parts
-0.4	0.6	1.4	1.5	1.2	-0.5	-0.4	-2.7	-0.3	-0.6	Manufacture of irradiation, electromedical and electrotherapeutic equipment

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	-1.8	-0.01	-1.4	-5.8	-0.1	-1.0	-0.7
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	2.5	-2.0	4.2	1.9	2.2	0.1	0.2
	27101 Pembuatan motor elektrik, penjana dan transformer	5.7	-3.3	2.7	0.8	5.2	0.2	0.2
	27102 Pembuatan perkakasan pengagihan dan pengawalan	-0.1	-0.9	5.5	2.8	-0.2	-0.1	0.2
272/ 27200	Pembuatan bateri dan akumulator	2.0	-3.8	-0.2	-6.8	2.2	-0.7	0.5
273	Pembuatan pendawaian dan peranti pendawaian	-2.8	2.1	3.6	4.9	-1.0	-1.1	-0.8
	27310 Pembuatan kabel gentian optikal	-0.3	-1.4	8.2	-6.2	-1.3	0.5	0.5
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	-3.3	0.9	3.7	5.9	-1.1	-1.2	-1.0
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	2.0	19.9	0.5	-0.7	0.7	0.6	0.6
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	-3.0	-2.1	-5.0	-10.1	-0.5	-1.3	-1.3
275/ 27500	Pembuatan perkakasan domestik	4.3	-2.9	-1.7	3.8	0.4	-0.4	4.3
279/ 27900	Pembuatan kelengkapan elektrik lain	-1.0	-1.8	0.6	2.7	-0.5	-0.3	-0.3
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	0.6	1.2	-2.2	1.5	0.5	1.4	-1.4
	28120 & Pembuatan alat-alat kuasa bendalir							
	28130 Pembuatan pam, pemampat, kepala paip dan injap lain	0.5	-2.1	2.3	21.8	-0.1	0.3	0.3
	28180 & Pembuatan alatan tangan yang menggunakan kuasa dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatik	-0.2	0.2	-2.0	-3.2	-0.7	2.0	-1.4
	28220 Pembuatan jentera pembentukan logam dan alatan mesin							
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	-2.8	-1.8	-4.2	0.7	-3.2	0.7	-0.3
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	-0.2 1.9	-0.4 3.3	-4.6 -2.0	1.9 1.2	0.2 2.3	-0.2 1.8	-0.2 -2.1
291 (29101 & 29102)	Pembuatan kenderaan bermotor	0.6	-1.3	1.4	1.1	0.1	0.9	-0.4
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	-1.1	0.8	0.1	-1.0	0.5	-0.1	-1.5
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	0.3	-0.5	-0.02	1.1	-0.2	0.6	-0.1
301 (30110 & 30120)	Pembinaan kapal dan bot	3.0	-7.3	5.1	-1.0	1.4	0.3	1.3
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.	5.1	-4.7	0.9	0.4	4.8	0.2	0.1
	30910 Pembuatan motosikal	5.7	-4.8	1.8	1.1	2.8	1.4	1.4
	30920 Pembuatan basikal dan invalid carriages	11.4	-12.7	-4.0	-0.5	10.9	0.2	0.2
	Industri lain	3.1	-2.5	1.5	0.1	4.9	-0.8	-0.9
310	Pembuatan perabot	2.4	-4.6	7.5	-0.9	1.6	0.3	0.5
	31001 Pembuatan perabot kayu dan rotan	1.5	-5.5	9.9	0.0	0.4	0.3	0.8
	Industri lain	5.0	-2.1	0.5	-3.6	5.1	0.3	-0.4
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	-3.5	-3.1	0.3	2.2	2.4	-1.2	-4.7
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	5.3	-0.8	0.6	2.9	2.8	2.0	0.5
	32901 Pembuatan alat tulis	-1.4	-1.5	0.7	5.2	0.3	-1.9	0.3
	Industri lain	7.6	-0.6	0.6	2.2	3.7	3.2	0.6
323/ 32300	Pembuatan barangan sukan	12.4	-3.3	-1.5	5.6	11.7	0.3	0.3
324/ 32400	Pembuatan permainan dan mainan	1.2	-3.8	2.2	1.1	1.8	-1.3	0.7
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	2.8	-2.7	2.5	1.1	3.7	0.7	-1.5
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	-2.1	-4.5	-0.6	-0.2	2.3	-2.1	-2.2
	Industri lain	3.9	-2.3	3.1	1.4	4.0	1.3	-1.4
Jumlah Pembuatan		1.6	-0.8	0.7	1.3	1.2	0.1	0.2

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
0.2	0.4	-0.6	-1.9	1.3	-0.8	-0.2	-5.8	0.3	-5.1		Manufacture of optical instruments, photographic equipment, magnetic and optical media
-1.7	-0.2	0.0	-0.2	2.5	2.0	0.3	-0.2	1.8	0.6		Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus
-2.8	-0.8	0.3	0.5	0.5	1.7	-0.2	-0.7	1.7	1.3		Manufacture of electric motors, generators and transformers
-0.8	0.2	-0.2	-0.8	4.1	2.2	0.8	0.2	1.8	0.1		Manufacture of electricity distribution and control apparatus
-0.6	1.1	-4.3	-1.3	5.7	-4.3	-0.2	-5.7	-0.9	0.1		Manufacture of batteries and accumulators
-1.0	1.0	2.1	-0.5	2.2	1.9	1.7	1.6	1.5	-0.4		Manufacture of wiring and wiring devices
-1.8	0.8	-0.4	1.4	-0.4	7.1	-0.2	-8.9	3.1	-0.4		Manufacture of fibre optic cables
-1.1	1.0	1.0	-0.6	2.4	1.9	1.9	2.2	1.7	-0.5		Manufacture of other electronic and electric wires and cables
0.6	1.0	18.0	-0.3	0.8	0.0	0.3	0.8	-1.7	1.1		Manufacture of current-carrying and non current-carrying wiring devices for electrical circuits regardless of material
-1.4	-0.6	-0.1	-2.0	-1.9	-1.2	-0.9	-8.6	-0.7	0.3		Manufacture of electric lighting equipment
-1.2	-1.0	-0.8	-1.4	0.1	-0.4	1.9	1.1	0.8	0.5		Manufacture of domestic appliances
-0.2	-0.1	-1.4	0.2	-0.5	1.0	-0.6	3.5	-0.1	0.6		Manufacture of other electrical equipment
0.5	-0.4	1.2	-2.1	0.01	-0.1	0.0	1.8	-0.2	0.9		Manufacture of general-purpose and special-purpose machinery
0.9	-0.6	-2.4	1.6	0.2	0.5	-1.3	25.3	-1.5	0.3		Manufacture of fluid power equipment
1.3	-0.8	-0.3	-1.4	-0.3	-0.3	0.2	-3.1	-0.3	0.5		Manufacture of other pumps, compressors, taps and valves
-0.3	-1.3	-0.2	-5.3	0.8	0.4	-2.3	2.2	0.9	6.2		Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives
1.6	0.2	-2.2	0.1	-1.1	-3.6	0.9	0.4	0.6	1.6		Manufacture of metal-forming machinery and machine tools
-0.2	-0.2	3.6	-2.8	0.2	0.6	0.3	1.3	-0.3	0.1		Manufacture of air-conditioning machines, including for motor vehicles
-0.1	-0.2	-1.0	-0.9	0.4	1.9	0.6	0.1	0.4	0.2		Manufacture of other special-purpose machinery
2.0	0.5	-1.7	-0.3	0.1	0.3	0.4	-1.0	-0.5	0.2		Other industry
0.3	-0.4	-0.4	-0.5	-0.4	0.9	0.8	0.1	0.2	1.0		Manufacture of motor vehicles
-5.7	0.5	-2.3	-0.1	0.2	5.0	0.6	0.4	-2.0	2.0		Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
-3.2	-0.6	-1.0	-0.2	-0.3	1.4	1.0	-0.1	-0.5	3.4		Manufacture of parts and accessories for motor vehicles
-3.8	-0.8	-0.3	-0.4	-0.02	2.2	2.1	-0.2	-0.8	2.5		Building of ships and boats
-9.3	-1.7	-2.1	-1.0	-2.3	-0.8	-0.2	0.04	-0.3	6.8		Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c
-1.1	-0.1	-1.3	0.1	0.03	1.3	0.3	0.02	-0.2	3.4		Manufacture of motorcycles
1.3	-0.3	-5.6	-2.0	0.3	9.4	-0.7	0.3	-0.5	2.0		Manufacture of bicycles and invalid carriages
1.7	-0.2	-6.8	-2.7	0.3	12.6	-0.6	0.8	-0.2	2.5		Other industry
0.1	-0.4	-1.8	0.1	0.1	0.4	-1.1	-1.1	-1.5	0.3		Manufacture of furniture
-0.5	-0.7	-1.9	1.3	-0.2	-0.8	0.7	2.1	-0.6	2.0		Manufacture of wooden and cane furniture
0.4	-0.1	-1.1	-0.03	-0.04	0.7	0.7	1.6	0.6	0.3		Other industry
-0.2	-0.4	-0.9	-0.3	-0.5	1.5	2.4	2.0	0.7	-0.7		Manufacture of jewellery, bijouterie and related articles
0.6	0.0	-1.2	0.1	0.1	0.5	0.1	1.4	0.6	0.6		Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.
-1.8	-0.1	-1.4	-0.1	-1.0	-0.4	0.9	3.3	1.3	0.9		Manufacture of stationery
-1.6	-1.5	-0.7	0.02	0.3	1.8	0.4	-0.7	1.4	0.05		Other industry
-0.1	-0.2	-2.4	0.9	0.6	0.9	1.5	0.8	-1.1	2.6		Manufacture of sports goods
0.0	0.3	-4.8	-0.4	-0.2	0.1	-0.6	2.9	-2.5	2.4		Manufacture of games and toys
-0.2	-0.3	-1.9	1.2	0.8	1.1	1.9	0.3	-0.9	2.6		Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment
0.1	0.1	-0.9	-0.2	0.2	0.8	0.4	0.6	0.3	0.6		Repair and maintenance of transport equipment except motorcycles and bicycles
											Other industry
0.1	0.1	-0.9	-0.2	0.2	0.8	0.4	0.6	0.3	0.6		Total Manufacturing

Jadual
Table **1.6a** : Gaji dan Upah yang Dibayar Sektor Pembuatan Mengikut Kumpulan
: Salaries and Wages Paid of Manufacturing Sector by Group

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Jan.
101	Pemprosesan dan pengawetan daging	343	355	92	82	81	88	88	89	87	92	30
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	444	457	109	105	114	116	117	115	113	112	40
	10201 Pengetinan ikan, krustasea dan moluska											
	10202 Pemprosesan dan pengawetan ikan, krustasea dan moluska	361	369	88	86	92	95	95	94	90	90	32
	Industri lain	84	87	21	19	22	21	22	21	22	22	8
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	167	174	41	43	41	42	45	45	43	42	15
	10303 Pengetinan nanas	18	15	4	4	5	5	5	5	3	2	2
	10304 Pembuatan jem, marmalad dan sajian jeli											
	Industri lain	149	160	37	38	37	37	40	40	40	40	13
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	2,776	2,773	710	693	687	686	681	691	685	716	226
	10404 Pembuatan minyak sayuran mentah dan bertapis											
	10406 Pembuatan sebatian lemak masakan	193	204	51	45	48	49	51	51	51	51	17
	10405 Pembuatan minyak kelapa	119	96	34	29	28	27	28	26	21	21	9
	Industri lain	2,464	2,473	625	619	611	609	603	613	613	644	200
105	Pembuatan produk tenusu	732	804	192	178	167	194	198	204	200	202	65
	10502 Pembuatan susu pekat, tepung dan sejat	630	704	166	152	143	169	173	178	176	177	57
	Industri lain	101	99	26	26	25	25	25	26	24	24	8
106	Pembuatan produk bijian, kanji dan produk berkanji	347	366	89	81	87	90	93	91	91	92	31
	10611 Pengilangan beras	173	176	45	43	42	42	44	43	44	45	15
	10613 Pengilangan tepung	151	165	38	32	39	42	42	41	41	41	14
	Industri lain	23	25	6	6	6	6	6	6	6	6	2
107	Pembuatan produk makanan lain	3,705	3,799	942	940	928	894	932	939	944	985	309
	10711 Pembuatan biskut dan cookies	302	320	73	75	77	77	76	75	81	88	26
	10712 Pembuatan roti, kek dan produk bakeri lain	1,001	933	259	258	248	236	228	233	235	238	74
	10713 Pembuatan produk snek	190	204	49	48	46	47	50	52	51	52	17
	10721 Pembuatan gula	84	76	26	21	18	18	19	18	19	20	7
	10731 Pembuatan produk koko	98	82	27	28	25	18	19	21	20	22	6
	10732 Pembuatan coklat dan produk coklat											
	10733 Pembuatan konfeksi gula	352	347	95	91	85	81	86	87	85	88	29
	10793 Pembuatan sos dan bahan perasa	347	363	89	87	88	82	87	85	91	100	29
	10799 Pembuatan produk makanan lain t.t.t.l.	324	381	78	80	84	81	92	95	93	100	30
	Industri lain	1,007	1,094	246	252	257	253	274	271	270	278	92
108/ 10800	Pembuatan makanan haiwan tersedia	1,011	1,045	263	244	244	260	257	256	260	272	86
110	Pembuatan minuman ringan	537	508	157	121	123	135	131	121	120	136	44
	11041 Pembuatan minuman ringan	354	342	100	80	82	92	86	81	81	94	30
	11042 Pengeluaran air mineral semulajadi dan minuman lain yang dibotalkan	128	128	38	29	30	31	33	32	30	32	11
	Industri lain	55	38	18	13	11	12	12	9	8	9	4
120/ 12000	Pembuatan produk tembakau	63	62	21	12	14	17	17	14	14	17	5
131	Pemintalan, penenunan dan penyiapan tekstil	335	328	90	79	83	84	82	81	79	87	28
	13110 Penyediaan dan pemintalan gentian tekstil											
	13120 Penenunan tekstil	222	222	58	51	57	57	56	55	53	57	19
	13132 Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	105	98	29	27	24	25	24	23	24	27	8
	Industri lain	8	8	2	1	2	2	2	2	2	2	1
139	Pembuatan tekstil lain	326	329	82	78	83	82	81	81	82	84	27
	13910 Pembuatan fabrik dikait dan dikrusye	116	111	31	27	30	29	26	27	28	30	9
	Industri lain	210	218	51	51	54	54	55	54	54	55	19
141	Pembuatan pakaian, kecuali pakaian berbulu	993	838	296	242	228	227	217	200	198	223	76
	14102 Pembuatan pakaian	719	580	227	177	159	157	147	136	141	155	52
	Industri lain	274	258	70	65	69	71	70	64	57	67	24
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	30	25	9	7	7	7	7	6	6	6	2
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan bagasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	121	121	34	26	29	32	31	30	29	32	10
152	Pembuatan kasut	191	186	56	43	44	47	48	45	43	50	17
	15201 Pembuatan kasut kulit											
	15203 Pembuatan kasut getah	136	133	40	30	31	34	34	32	31	36	12
	Industri lain	55	54	16	13	13	13	14	13	13	14	5
161/ 16100	Pengilangan dan pengetaman kayu	555	547	135	125	145	150	139	130	136	143	46

2021											2022		Group Description/Period
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
29	29	30	30	29	29	29	29	29	31	32	31	Processing and preserving of meat	
38	39	38	39	38	38	37	37	37	37	38	38	Processing and preserving of fish, crustaceans and molluscs	
												Canning of fish, crustaceans and molluscs	
31	31	31	32	31	31	29	30	30	30	30	30	Processing, curing and preserving of fish, crustacean and molluscs	
7	7	7	7	7	8	8	7	7	7	7	8	Other industry	
15	15	15	15	15	15	14	14	14	14	14	15	Processing and preserving of fruits and vegetable	
												Pineapple canning	
2	1	1	2	2	2	1	1	1	1	1	1	Manufacture of jams, marmalades and table jellies	
13	13	14	13	13	13	13	13	13	13	13	15	Other industry	
226	230	233	230	227	237	213	235	234	230	252	241	Manufacture of vegetable and animal oils and fats	
												Manufacture of crude and refined vegetable oil	
17	17	17	17	17	17	17	17	17	17	17	17	Manufacture of compound cooking fats	
9	9	9	9	7	7	7	7	7	7	7	8	Manufacture of coconut oil	
199	203	206	204	203	214	189	210	210	206	228	215	Other industry	
66	67	69	69	67	66	67	66	66	65	71	73	Manufacture of dairy products	
58	58	60	60	58	58	59	58	58	57	63	64	Manufacture of condensed, powdered and evaporated milk	
8	9	9	9	8	8	8	8	8	8	8	9	Other industry	
31	31	30	30	30	31	30	31	31	30	31	32	Manufacture of grain mill products, starches and starch products	
15	15	14	14	14	14	15	15	15	15	15	16	Rice milling	
14	14	14	14	14	14	13	13	13	13	14	14	Flour milling	
2	2	2	2	2	2	2	2	2	2	2	2	Other industry	
308	314	316	315	309	308	310	326	326	330	330	335	Manufacture of other food products	
25	26	25	25	25	26	27	28	29	30	29	30	Manufacture of biscuits and cookies	
76	77	77	79	77	77	78	80	81	82	76	73	Manufacture of bread, cakes and other bakery products	
16	17	17	17	17	17	17	17	17	17	18	19	Manufacture of snack products	
6	6	6	6	6	6	6	6	6	7	7	7	Manufacture of sugar	
6	6	8	6	7	6	7	7	7	7	7	8	Manufacture of cocoa products	
												Manufacture of chocolate and chocolate products	
28	30	29	29	29	28	28	29	29	30	29	31	Manufacture of sugar confectionery	
29	29	29	29	27	27	29	35	33	34	33	30	Manufacture of sauces and condiments	
31	31	32	32	31	32	30	31	32	33	35	37	Manufacture of other food products n.e.c.	
90	92	91	90	90	90	89	92	92	92	94	99	Other industry	
86	86	85	86	85	90	85	85	85	85	101	87	Manufacture of prepared animal feeds	
44	42	43	40	38	38	39	43	43	45	48	44	Manufacture of beverages	
29	27	28	27	26	26	26	29	29	31	34	30	Manufacture of soft drinks	
11	11	11	10	10	10	10	11	10	11	11	11	Production of natural mineral waters and other bottled waters	
4	4	4	3	2	2	3	3	3	3	3	3	Other industry	
6	6	5	5	5	5	4	5	5	5	7	5	Manufacture of tobacco products	
27	27	27	28	26	26	26	26	27	29	30	29	Spinning, weaving and finishing of textiles	
												Preparation and spinning of textile fibres	
19	18	18	19	18	18	17	18	18	19	20	20	Weaving of textiles	
8	8	8	8	8	8	8	8	8	9	10	9	Dyeing, bleaching, printing and finishing of yarns and fabrics	
1	1	1	1	1	1	1	1	1	1	1	1	Other industry	
27	27	27	28	26	27	28	28	28	28	28	27	Manufacture of other textiles	
9	9	9	9	9	9	10	9	10	10	10	9	Manufacture of knitted and crocheted fabrics	
18	19	18	18	17	18	18	18	18	18	18	18	Other industry	
70	70	70	71	59	66	66	66	66	74	82	79	Manufacture of wearing apparel, except fur apparel	
47	47	47	49	40	47	47	47	47	51	58	53	Manufacture of clothings	
23	23	23	22	19	19	19	19	19	23	25	25	Other industry	
2	2	2	2	2	2	2	2	2	2	2	2	Manufacture of articles of fur, knitted and crocheted apparel	
												Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur	
10	10	10	10	9	9	10	10	11	11	11	11		
16	16	16	15	14	13	15	15	16	16	17	17	Manufacture of footwear	
												Manufacture of leather footwear	
11	11	11	11	10	9	10	11	12	12	12	12	Manufacture of rubber footwear	
5	5	5	5	4	4	4	4	4	5	5	5	Other industry	
47	45	45	43	42	44	44	47	47	47	48	46	Sawmilling and planning of wood	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Jan.
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	1,869	1,913	508	446	464	451	466	456	480	511	158
16211	Pembuatan kepingan venier dan papan lapis	964	934	270	233	237	224	221	214	238	260	74
16212	Pembuatan papan partikel dan papan gentian	238	251	67	57	57	57	59	61	62	70	20
16221	Pertukangan kayu untuk jurubina	351	407	83	82	94	92	103	102	101	100	34
	Industri lain	316	321	88	73	76	78	83	79	79	81	29
170	Pembuatan kertas dan produk kertas	2,003	2,018	530	487	491	496	505	502	495	517	167
17010	Pembuatan pulpa, kertas dan kertas tebal	276	271	75	68	68	65	64	65	67	75	21
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	798	805	211	192	197	198	200	205	196	203	66
17091	Pembuatan sampul surat dan kad surat	58	59	16	15	14	14	14	15	15	15	5
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	338	345	86	82	84	85	86	88	85	87	29
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	353	308	94	88	85	86	83	72	75	78	28
	Industri lain	180	230	47	42	44	48	57	58	56	59	18
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	2,170	2,153	583	537	521	529	559	549	507	538	191
18110	Percetakan	1,816	1,807	486	450	436	443	466	463	426	452	159
18120	Aktiviti perkhidmatan berkaitan percetakan											
&		354	346	97	86	85	86	94	86	81	86	31
18200	Penerbitan semula media rakaman											
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	2,282	2,326	637	491	537	617	617	522	565	621	199
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	3,131	3,062	971	712	722	725	763	746	787	765	249
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	248	226	105	47	49	48	55	55	57	59	18
20112	Pembuatan kimia organik asas											
&		1,514	1,560	413	380	359	363	383	374	410	392	126
20113	Pembuatan sebatian bukan organik											
20121	Pembuatan baja											
&		414	343	166	76	89	83	91	86	87	78	29
20129	Pembuatan produk campuran nitrogen											
20131	Pembuatan plastik dalam bentuk primer	860	831	263	187	203	207	208	204	208	211	67
	Industri lain	95	102	25	23	22	25	26	26	25	25	8
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	2,538	2,616	627	602	639	669	699	642	611	663	231
20210	Pembuatan racun perosak dan produk agrokimia lain	182	240	42	45	48	47	63	61	59	57	22
20221	Pembuatan cat, varnis dan penyadur dan mastik	330	340	85	80	82	84	91	81	82	86	34
20222	Pembuatan dakwat cetak	298	279	65	78	76	79	79	69	64	66	26
20231	Pembuatan sabun dan bahan pencuci, penyediaan											
&	membersih dan mengilat	932	902	251	201	231	249	255	221	208	218	81
20232	Pembuatan pewangi dan penyediaan dandanan diri											
20291	Pembuatan plat fotografi, filem, sensitized paper dan other											
&	sensitized unexposed materials											
20292	Pembuatan dakwat menulis dan melukis	760	821	175	189	194	201	203	201	189	228	65
&												
20299	Pembuatan produk kimia lain t.t.t.l.											
	Industri lain	35	34	9	9	8	8	9	9	8	8	3
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	631	717	144	157	161	169	165	180	183	189	55
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	512	574	118	128	130	137	133	145	144	152	44
	Industri lain	118	143	27	29	31	32	32	35	39	36	11
221	Pembuatan produk getah	3,761	4,095	857	951	973	980	919	1,060	1,112	1,003	318
22111	Pembuatan tayar getah untuk kenderaan	361	353	93	89	92	87	80	94	93	87	27
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	77	88	18	19	20	20	21	23	22	23	7
22191	Pembuatan produk lain daripada getah asli atau sintetik, tidak divulkan, divulkan atau dikeraskan											
&		592	682	132	143	158	159	166	174	177	165	54
22193	Pengilangan semula getah dan prosesan susu getah											
22192	Pembuatan sarung tangan getah	1,936	2,238	415	508	502	511	444	588	654	551	158
22199	Pembuatan produk getah lain yang t.t.t.l.	794	732	199	191	200	204	208	181	167	177	72
222	Pembuatan produk plastik	7,067	7,528	1,599	1,767	1,855	1,847	1,853	1,970	1,846	1,860	605
22201	Pembuatan produk plastik separa siap											
&		2,603	2,636	593	661	672	676	644	693	646	652	207
22202	Pembuatan produk plastik siap											
22203	Pembuatan artikel plastik untuk pembungkusan barangan	1,409	1,591	315	356	375	363	373	425	395	398	122
22204	Pembuatan barangan plastik jurubina	94	96	23	23	24	24	25	26	22	23	8
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	504	570	105	125	139	134	141	143	141	144	46
22209	Pembuatan pelbagai produk plastik t.t.t.l.	2,458	2,635	562	602	645	649	669	683	641	642	222
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	665	747	179	167	159	160	174	185	182	206	58

2021											2022	Group Description/Period
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
153	155	153	154	149	155	158	168	169	170	173	174	Manufacture of products of wood, cork, straw and plaiting materials
73	74	71	72	71	75	77	86	86	86	89	84	Manufacture of veneer sheets and plywood
19	20	19	21	20	20	20	22	22	24	24	25	Manufacture of particle board and fibreboard
34	34	36	34	32	34	34	34	34	33	34	36	Manufacture of builders' carpentry
26	27	27	26	25	26	27	26	27	28	27	29	Other industry
167	171	170	166	166	162	163	170	171	173	173	173	Manufacture of paper and paper products
21	22	21	22	22	22	22	23	25	26	25	25	Manufacture of pulp, paper and paperboard
65	69	68	68	69	63	66	68	68	68	68	69	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
5	5	5	5	5	5	5	5	5	5	5	5	Manufacture of envelopes and letter-card
29	29	32	27	29	28	28	29	29	29	29	28	Manufacture of household and personal hygiene paper
27	28	25	24	23	25	24	26	26	26	26	24	Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
19	19	19	20	19	18	19	19	19	19	21	22	Other industry
182	186	183	187	179	172	172	162	167	175	196	194	Printing, service activities related to printing and reproduction of recorded media
151	155	154	158	151	145	145	136	140	147	165	162	Printing
31	31	30	29	27	27	27	27	27	28	31	32	Service activities related to printing
												Reproduction of recorded media
193	225	169	168	185	181	180	205	204	194	223	199	Manufacture of refined petroleum products
252	262	247	236	264	263	262	262	253	247	265	259	Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
18	18	18	18	19	19	19	19	19	20	20	24	Manufacture of liquefied or compressed inorganic industrial or medical gases
128	129	124	114	137	137	134	139	131	126	136	136	Manufacture of basic organic chemicals
												Manufacture of inorganic compounds
30	33	28	28	30	30	30	27	26	25	27	25	Manufacture of fertilizers
68	73	68	67	69	70	70	69	69	69	73	65	Manufacture of associated nitrogen products
9	9	9	9	9	8	8	9	8	8	9	9	Manufacture of plastics in primary forms
												Other industry
231	238	218	214	210	204	200	207	210	214	240	229	Manufacture of other chemical products and man-made fibres
20	22	20	20	20	20	19	20	19	20	18	22	Manufacture of pesticides and other agrochemical products
28	29	28	27	26	28	26	28	28	28	31	35	Manufacture of paints, varnishes and similar coatings ink and mastics
25	28	25	22	22	22	21	21	21	22	23	21	Manufacture of printing ink
87	88	74	75	73	69	67	72	68	68	81	72	Manufacture of soap and detergents, cleaning and polishing preparations
												Manufacture of perfumes and toilet preparations
												Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
69	69	68	66	66	63	63	64	71	73	84	75	Manufacture of writing and drawing ink
												Manufacture of other chemical products n.e.c.
3	3	3	3	3	3	3	3	3	3	3	3	Other industry
55	55	62	59	59	60	62	61	62	59	68	61	Manufacture of pharmaceuticals, medicinal chemical and botanical products
44	44	50	47	48	47	49	48	50	47	56	49	Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
11	11	12	12	11	13	13	13	12	12	12	12	Other industry
297	303	312	345	403	380	377	356	343	323	337	320	Manufacture of rubber products
24	29	29	33	32	32	31	30	29	28	29	28	Manufacture of rubber tyres for vehicles
6	8	8	8	7	7	7	8	8	8	7	8	Manufacture of interchangeable tyre treads and retreading rubber tyres
55	57	58	59	58	59	59	60	55	53	58	56	Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
												Rubber remilling and latex processing
144	142	149	189	250	227	225	203	195	177	180	168	Manufacture of rubber gloves
68	68	68	56	56	56	55	56	57	57	63	61	Manufacture of other rubber products n.e.c.
607	641	662	677	632	605	620	620	622	617	622	607	Manufacture of plastics products
												Manufacture of semi-manufactures of plastic products
217	221	232	243	218	207	221	218	219	220	213	203	Manufacture of finished plastic products
114	138	143	145	138	131	133	131	132	131	135	131	Manufacture of plastic articles for the packing of goods
8	9	9	9	8	7	7	7	7	8	8	8	Manufacture of builders' plastics ware
46	49	48	49	46	45	48	49	49	46	49	48	Manufacture of plastic tableware, kitchenware and toilet articles
223	224	230	231	222	215	211	215	214	211	216	216	Manufacture of diverse plastic products n.e.c.
58	59	60	63	62	60	56	65	67	66	73	72	Manufacture of glass and glass products

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				Jan.
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	3,604	3,592	938	868	885	913	904	903	873	911	303
23911	Pembuatan mortar refraktori dan konkrit &	411	365	113	98	100	100	94	93	92	85	33
23921	Pembuatan seramik bukan refraktori											
23930	Pembuatan produk porselin dan seramik lain	160	159	39	37	41	43	42	39	38	40	15
23941	Pembuatan simen hidrolik	303	287	81	80	69	72	72	76	68	71	24
23951	Pembuatan konkrit dan mortar siap bancuh dan bancuhan kering	665	686	176	158	166	165	170	171	168	176	57
23952	Pembuatan konkrit pratuangan, simen atau artikel batu buatan yang digunakan dalam pembinaan;											
23953	Pembuatan komponen struktur pasang siap untuk bangunan atau kejuruteraan awam dari simen, batu atau konkrit buatan	1,226	1,253	302	295	306	323	318	313	306	316	104
23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.					0						
23990	Pembuatan produk mineral bukan logam lain t.t.t.l. Industri lain	508	484	142	126	117	123	121	115	115	132	41
		332	359	85	75	86	87	87	95	86	91	29
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	2,221	2,210	600	534	535	553	581	531	516	582	196
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	1,362	1,423	377	322	322	341	356	354	343	371	118
243	Pengacuan logam	406	415	108	91	103	104	107	101	100	106	35
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	1,659	1,632	419	390	423	427	426	396	395	415	143
25113	Pembuatan pintu, tingkap dan bingkai, penutup tingkap dan pintu pagar daripada logam	984	880	249	225	255	255	240	216	207	217	83
25119	Pembuatan produk struktur logam lain											
25120	Pembuatan tangki, takungan dan kontena daripada logam	474	557	114	114	121	126	132	130	143	152	42
	Industri lain	201	195	56	52	48	46	54	50	45	47	18
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	3,661	3,841	915	874	916	957	977	923	925	1,016	334
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan logam; serbuk metalurgi	715	768	170	173	184	188	194	189	187	197	68
25920	Rawatan dan penyalutan logam; menggunakan mesin	444	502	104	102	114	125	131	127	116	128	44
25991	Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat	409	419	100	99	100	110	106	95	100	119	37
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal) dan artikel seumpamanya daripada logam	811	893	214	191	199	206	217	198	218	260	72
25993	Pembuatan bolt, skru, nat dan produk uliran seumpamanya	76	70	21	18	18	18	19	19	16	16	6
25994	Pembuatan barangan rumah daripada logam	904	927	232	218	224	230	240	231	224	232	81
25999	Pembuatan produk lain yang direka daripada logam t.t.t.l. Industri lain	301	261	73	72	77	80	70	64	63	65	26
261	Pembuatan komponen dan papan elektronik	11,194	11,848	3,050	2,636	2,670	2,839	3,043	2,944	2,803	3,058	997
26101	Pembuatan diod, transistor dan alatan semikonduktor yang seumpamanya	7,272	7,743	2,113	1,696	1,662	1,800	1,939	1,944	1,866	1,994	631
26102	Pembuatan litar elektronik bersepadu dengan pemasangan mikro											
26103	Pembuatan kapasitor dan perintang elektrik &											
26104	Pembuatan papan litar bercetak &	3,400	3,638	816	809	873	902	976	883	829	951	323
26105	Pembuatan komponen paparan											
26109	Pembuatan komponen lain untuk aplikasi elektronik	522	466	121	131	135	136	128	117	108	113	44
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	2,586	2,839	685	619	610	672	720	671	695	753	245
263/ 26300	Pembuatan peralatan komunikasi	706	665	216	174	161	155	152	171	159	182	52
264/ 26400	Pembuatan peralatan elektronik pengguna	1,191	1,140	295	288	299	309	281	272	275	312	106
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	1,602	1,693	424	391	377	410	409	401	413	470	140
26511	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan &	1,437	1,535	380	350	336	370	371	362	375	427	128
26512	Pembuatan kelengkapan kawalan proses perindustrian											
26520	Pembuatan jam tangan dan jam dan bahagiannya	165	157	43	41	40	41	38	39	38	43	12
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	611	705	162	157	157	135	162	187	185	170	49

2021											2022		Group Description/Period
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
295	306	305	308	290	289	290	295	296	303	312	305	Manufacture of non-metallic mineral products n.e.c.	
30	32	32	32	30	30	31	31	31	26	28	24	Manufacture of refractory mortars and concretes	
13	14	12	13	13	12	13	13	13	13	14	14	Manufacture of other porcelain and ceramic products	
23	25	26	26	24	23	22	23	23	23	24	25	Manufacture of hydraulic cement	
54	59	56	58	57	57	56	56	56	58	62	60	Manufacture of ready-mix and dry-mix concrete and mortars	
												Manufacture of precast concrete, cement or artificial stone articles for use in construction	
107	107	106	109	98	102	101	102	102	112	102	106	Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone	
												Manufacture of other articles of concrete, cement and plaster n.e.c.	
40	40	37	40	39	37	38	40	41	42	50	45	Manufacture of other non-metallic mineral products n.e.c.	
28	30	36	31	29	28	29	29	30	30	32	31	Other industry	
190	194	183	176	172	165	168	184	183	187	212	208	Manufacture of basic iron and steel	
116	121	116	121	117	113	112	118	121	119	131	126	Manufacture of basic precious and other non-ferrous metals	
35	37	34	34	33	32	33	35	35	35	36	36	Casting of metals	
141	142	136	136	124	132	128	136	137	138	140	142	Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition	
78	78	76	75	65	69	68	71	71	72	74	75	Manufacture of metal doors, windows and their frames, shutters and gates	
												Manufacture of other structural metal products	
45	45	43	44	44	48	46	49	51	51	51	51	Manufacture of tanks, reservoirs and containers of metal	
18	18	17	17	16	15	14	15	16	15	16	16	Other industry	
326	316	308	311	304	298	301	327	329	332	355	347	Manufacture of other fabricated metal products; metal working service activities	
64	63	63	64	63	62	62	63	63	63	71	65	Forging, pressing, stamping and roll-forming of metal; powder metallurgy	
44	43	41	43	42	39	38	39	40	41	47	44	Treatment and coating of metals; machining	
37	32	32	31	32	31	32	36	37	40	41	38	Manufacture of tins and cans for food products, collapsible tubes and boxes	
												Manufacture of metal cable, plaited bands and similar articles	
73	72	65	67	66	66	66	87	86	86	88	90	Manufacture of bolts, screws, nuts and similar threaded products	
6	6	6	6	6	6	5	5	5	5	5	5	Manufacture of metal household articles	
81	78	78	78	75	73	75	76	76	75	81	84	Manufacture of any other fabricated metal products n.e.c.	
22	22	22	21	21	22	21	21	21	21	22	22	Other industry	
1,065	981	976	976	992	930	931	943	961	974	1,124	1,058	Manufacture of electronic components and boards	
												Manufacture of diodes, transistors and similar semiconductor devices	
669	639	633	634	678	613	628	625	626	637	731	677	Manufacture of electronic integrated circuits micro assemblies	
												Manufacture of electrical capacitors and resistors	
353	300	303	302	278	281	267	281	297	300	354	340	Manufacture of printed circuit boards	
43	41	40	40	36	36	35	37	37	37	38	41	Manufacture of display components	
												Manufacture of other components for electronic applications	
237	238	224	223	224	215	224	255	256	228	270	250	Manufacture of computers and peripheral equipment	
47	52	63	53	56	51	54	55	55	65	63	65	Manufacture of communication equipment	
85	90	91	92	89	84	92	99	104	102	106	115	Manufacture of consumer electronics	
132	136	136	136	129	132	139	142	142	152	175	165	Manufacture of measuring, testing, navigating and control equipment; watches and clocks	
												Manufacture of measuring, testing, navigating and control equipment	
120	124	123	123	116	119	127	129	130	138	159	149	Manufacture of industrial process control equipment	
13	13	13	13	13	13	13	13	13	14	16	16	Manufacture of watches and clocks and parts	
52	61	60	61	66	63	62	60	60	60	50	58	Manufacture of irradiation, electromedical and electrotherapeutic equipment	

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2020				2021				Jan.
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	393	395	101	97	96	99	104	96	93	102	34
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	1,314	1,298	339	310	324	340	338	294	321	345	118
	27101 Pembuatan motor elektrik, penjana dan transformer	437	450	120	102	108	107	100	109	120	122	36
	27102 Pembuatan perkakasan pengagihan dan pengawalan	877	847	219	208	216	233	238	185	201	223	82
272/ 27200	Pembuatan bateri dan akumulator	423	438	101	104	109	109	97	105	120	116	37
273	Pembuatan pendawaian dan peranti pendawaian	883	1,003	227	199	220	236	244	239	249	272	84
	27310 Pembuatan kabel gentian optikal	68	67	17	17	17	17	12	13	17	25	4
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	780	898	201	174	194	211	223	216	222	237	77
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	35	38	9	8	9	9	9	9	10	10	3
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	153	221	38	39	38	38	46	52	61	61	16
275/ 27500	Pembuatan perkakasan domestik	694	574	170	162	180	182	181	149	128	116	60
279/ 27900	Pembuatan kelengkapan elektrik lain	283	299	69	69	71	74	70	72	73	84	24
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	4,167	4,292	1,063	982	1,029	1,092	1,110	1,039	1,032	1,112	379
	28120 Pembuatan alat-alat kuasa bendalir &											
	28130 Pembuatan pam, pemampat, kepala paip dan injap lain	341	340	81	81	82	97	87	81	81	90	29
	28180 Pembuatan alatan tangan yang menggunakan kuasa & dilengkapi dengan motor elektrik atau bukan motor elektrik atau pneumatik	796	918	186	176	209	225	235	214	220	249	83
	28220 Pembuatan jentera pembentukan logam dan alatan mesin											
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	703	689	172	178	177	175	174	167	175	173	58
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	548	554	166	117	128	138	145	137	129	144	50
		1,779	1,790	458	430	434	458	468	440	427	456	158
291 (29101 & 29102)	Pembuatan kenderaan bermotor	1,031	1,057	289	235	254	253	257	261	252	287	87
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	260	283	73	62	61	63	66	71	71	75	21
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	2,127	2,071	576	500	500	551	542	526	481	523	180
301 (30110 & 30120)	Pembinaan kapal dan bot	299	285	80	71	75	74	80	72	66	67	25
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.	802	810	237	185	186	193	208	205	194	204	68
	30910 Pembuatan motosikal	436	482	125	102	102	106	120	122	116	125	38
	30920 Pembuatan basikal dan invalid carriages	138	132	35	31	35	37	37	34	31	30	13
	Industri lain	228	195	77	51	49	51	51	49	46	49	17
310	Pembuatan perabot	2,368	2,425	597	553	607	612	617	578	586	643	208
	31001 Pembuatan perabot kayu dan rotan	1,784	1,852	440	418	458	468	466	436	450	501	158
	Industri lain	584	573	157	135	149	144	151	142	136	143	51
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	242	250	61	56	61	65	66	60	57	67	23
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	668	721	166	163	165	174	183	177	177	184	61
	32901 Pembuatan alat tulis	151	151	42	38	35	36	38	37	37	39	13
	Industri lain	517	570	124	125	130	138	146	140	140	145	48
323/ 32300	Pembuatan barangan sukan	66	71	17	15	17	17	18	17	17	18	6
324/ 32400	Pembuatan permainan dan mainan	184	184	47	46	47	44	34	36	52	62	11
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	1,240	1,260	335	296	293	316	322	309	298	330	107
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	285	268	77	73	66	69	71	65	64	67	24
	Industri lain	954	992	258	223	227	246	251	244	234	264	83
Jumlah Pembuatan		87,194	89,830	22,728	20,906	21,420	22,139	22,584	22,162	21,904	23,180	7,558

2021											2022		Group Description/Period
Feb.	Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
34	35	32	32	32	30	31	32	32	33	37	35	Manufacture of optical instruments, photographic equipment, magnetic and optical media	
114	106	89	100	104	104	107	110	111	113	122	115	Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus	
33	32	34	36	39	39	40	40	40	40	42	40	Manufacture of electric motors, generators and transformers	
82	74	56	64	65	65	67	70	70	73	80	75	Manufacture of electricity distribution and control apparatus	
30	30	30	36	38	38	42	40	40	38	38	39	Manufacture of batteries and accumulators	
84	76	76	80	82	81	82	86	88	85	99	93	Manufacture of wiring and wiring devices	
4	4	4	5	5	5	5	8	8	8	9	6	Manufacture of fibre optic cables	
77	69	70	73	74	73	74	75	77	74	86	83	Manufacture of other electronic and electric wires and cables	
3	3	3	3	4	3	3	3	3	3	3	3	Manufacture of current -carrying and non current-carrying wiring devices for electrical circuits regardless of material	
15	15	16	17	20	20	20	20	20	20	21	23	Manufacture of electric lighting equipment	
60	60	44	54	51	47	43	37	38	38	40	42	Manufacture of domestic appliances	
24	22	24	24	23	23	24	26	26	26	32	30	Manufacture of other electrical equipment	
379	352	349	349	340	336	345	350	355	361	395	386	Manufacture of general-purpose and special-purpose machinery	
												Manufacture of fluid power equipment	
29	29	28	27	26	26	27	28	27	28	36	29	Manufacture of other pumps, compressors, taps and valves	
												Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives	
81	71	72	71	71	71	71	78	78	83	89	77	Manufacture of metal-forming machinery and machine tools	
58	58	53	57	57	55	62	58	58	58	57	57	Manufacture of air-conditioning machines, including for motor vehicles	
50	45	49	45	43	43	43	43	44	44	55	53	Manufacture of other special-purpose machinery n.e.c.	
161	149	148	149	142	141	142	144	148	148	159	171	Other industry	
89	82	88	88	85	82	83	87	90	93	104	96	Manufacture of motor vehicles	
21	24	24	24	23	23	23	25	25	25	25	24	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	
184	178	186	172	167	155	158	168	169	170	184	169	Manufacture of parts and accessories for motor vehicles	
25	30	25	24	23	22	22	22	22	22	23	23	Building of ships and boats	
69	71	71	70	64	64	63	67	68	69	67	69	Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c	
39	42	42	41	38	39	37	40	41	43	41	43	Manufacture of motorcycles	
12	12	12	12	10	9	11	11	11	10	9	10	Manufacture of bicycles and invalid carriages	
17	17	17	17	15	16	15	16	16	16	16	17	Other industry	
207	201	194	197	187	185	187	214	213	213	218	222	Manufacture of furniture	
157	151	146	148	143	141	142	166	165	165	170	175	Manufacture of wooden and cane furniture	
50	50	49	49	45	44	45	48	47	48	47	48	Other industry	
22	21	21	20	19	19	18	20	20	21	26	24	Manufacture of jewellery, bijouterie and related articles	
62	61	59	59	59	59	59	59	60	60	63	62	Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.	
13	13	13	13	12	12	12	13	13	13	13	13	Manufacture of stationery	
49	48	47	46	47	47	46	47	47	48	50	49	Other industry	
6	6	6	6	6	5	6	6	6	6	6	6	Manufacture of sports goods	
11	11	11	11	14	15	18	19	19	19	23	18	Manufacture of games and toys	
107	108	109	103	97	99	99	101	107	112	111	111	Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment	
24	24	23	22	21	21	21	22	21	23	22	22	Repair and maintenance of transport equipment except motorcycles and bicycles	
83	84	86	81	76	77	78	79	86	89	89	89	Other industry	
7,512	7,514	7,386	7,416	7,360	7,195	7,231	7,479	7,523	7,536	8,122	7,865	Total Manufacturing	

Jadual Table 1.6b : Gaji dan Upah yang Dibayar Sektor Pembuatan Mengikut Kumpulan: Perubahan Peratusan Tahunan
Salaries and Wages Paid of Manufacturing Sector by Group: Annual Percentage Change

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
101	Pemprosesan dan pengawetan daging	-4.8	3.6	-4.6	8.1	7.0	4.8	-1.7	-7.5
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	11.1	2.8	7.5	9.1	-1.4	-3.3	8.9	6.1
	10201 Pengetinan ikan, krustasea dan moluska								
	10202 Pemprosesan dan pengawetan ikan, krustasea dan moluska	13.6	2.4	8.2	8.8	-1.8	-4.9	10.2	6.8
	Industri lain	1.6	4.6	4.5	10.5	0.5	3.7	3.6	3.1
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	10.4	4.5	9.7	5.2	3.6	-0.3	5.7	10.6
	10303 Pengetinan nanas	4.0	-17.2	12.8	3.4	-33.2	-47.4	23.9	9.2
	10304 Pembuatan jem, marmalad dan sajian jeli								
	Industri lain	11.2	7.1	9.3	5.4	8.4	5.5	3.8	10.8
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	2.3	-0.1	-4.0	-0.3	-0.3	4.5	-5.4	-5.4
	10404 Pembuatan minyak sayuran mentah dan bertapis								
	10406 Pembuatan sebatian lemak masakan	0.1	5.6	0.1	13.8	5.8	3.5	-1.1	-1.8
	10405 Pembuatan minyak kelapa	-8.9	-19.0	-18.8	-10.3	-25.3	-22.3	-20.3	-18.8
	Industri lain	3.0	0.4	-3.5	-0.9	0.3	5.7	-4.9	-5.0
105	Pembuatan produk tenusu	2.8	9.9	3.3	14.7	19.2	3.9	0.6	2.0
	10502 Pembuatan susu pekat, tepung dan sejat	2.2	11.7	4.3	17.1	22.9	4.8	1.8	3.1
	Industri lain	6.4	-1.7	-3.6	1.0	-2.0	-2.5	-6.8	-5.7
106	Pembuatan produk bijian, kanji dan produk berkanji	2.1	5.3	3.6	11.9	4.1	2.2	8.3	0.4
	10611 Pengilangan beras	10.7	1.9	-1.7	-1.3	4.4	6.6	3.8	-5.6
	10613 Pengilangan tepung	-6.1	8.8	9.5	30.2	3.1	-2.6	13.9	6.8
	Industri lain	0.3	7.3	4.9	10.0	9.2	5.2	6.0	4.6
107	Pembuatan produk makanan lain	0.2	2.6	-1.2	-0.2	1.7	10.2	-2.0	-1.9
	10711 Pembuatan biskut dan cookies	1.4	6.0	5.2	0.2	4.9	13.6	4.2	3.4
	10712 Pembuatan roti, kek dan produk bakeri lain	1.3	-6.8	-12.2	-9.9	-5.3	0.8	-14.5	-11.7
	10713 Pembuatan produk snek	-5.3	7.4	1.5	9.1	8.8	10.6	-0.4	-2.2
	10721 Pembuatan gula	-28.7	-9.9	-26.5	-14.5	2.3	7.0	-29.0	-32.3
	10731 Pembuatan produk koko	-14.1	-16.2	-31.0	-23.9	-18.3	21.8	-35.6	-30.4
	10732 Pembuatan coklat dan produk coklat								
	10733 Pembuatan konfeksi gula	-6.8	-1.6	-9.0	-4.4	-0.1	8.7	-8.0	-12.3
	10793 Pembuatan sos dan bahan perasa	-3.1	4.8	-1.7	-2.2	2.6	21.7	2.5	2.4
	10799 Pembuatan produk makanan lain t.t.t.l.	4.2	17.7	17.2	19.1	11.4	23.3	15.7	16.2
	Industri lain	8.1	8.6	11.5	7.9	5.2	9.8	10.8	10.1
108/ 10800	Pembuatan makanan haiwan tersedia	8.5	3.3	-2.2	4.8	6.6	4.4	-8.7	-2.8
110	Pembuatan minuman ringan	-12.5	-5.4	-16.6	-0.05	-2.8	0.5	-18.1	-17.6
	11041 Pembuatan minuman ringan	-9.8	-3.4	-14.2	1.3	-1.2	2.5	-12.5	-13.0
	11042 Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	-15.1	-0.3	-13.3	10.5	1.7	4.0	-22.7	-20.3
	Industri lain	-22.0	-30.6	-36.9	-31.8	-26.6	-23.4	-37.9	-37.3
120/ 12000	Pembuatan produk tembakau	-27.6	-2.4	-18.7	16.7	1.7	0.4	-20.5	-17.1
131	Pemintalan, penenunan dan penyiapan tekstil	-6.2	-2.2	-8.4	2.2	-5.4	3.6	-9.4	-8.3
	13110 Penyediaan dan pemintalan gentian tekstil								
	13120 Penenunan tekstil	-3.5	-0.4	-3.9	8.7	-6.7	1.4	-4.5	-4.1
	13132 Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	-9.4	-6.5	-17.5	-13.4	-1.7	9.3	-19.5	-16.4
	Industri lain	-29.0	3.9	-8.1	79.7	-12.8	-5.2	-8.9	-12.3
139	Pembuatan tekstil lain	0.8	1.0	-1.1	4.5	-1.3	2.2	-3.9	0.4
	13910 Pembuatan fabrik dikait dan dikrusye	-8.8	-4.1	-15.1	1.5	-4.7	3.1	-20.6	-12.7
	Industri lain	6.9	3.8	7.3	6.0	0.5	1.7	6.5	8.1
141	Pembuatan pakaian, kecuali pakaian berbulu	-17.0	-15.7	-26.9	-17.2	-13.0	-2.0	-26.1	-27.3
	14102 Pembuatan pakaian	-22.0	-19.4	-35.1	-23.0	-11.1	-0.8	-32.8	-36.1
	Industri lain	-0.2	-6.0	-0.2	-1.4	-17.3	-4.7	-5.2	1.7
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	-15.3	-16.1	-22.6	-9.6	-17.4	-13.3	-20.9	-28.3
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	-24.7	-0.3	-10.0	14.3	-2.9	0.7	-24.6	-0.5
152	Pembuatan kasut	-1.6	-2.3	-13.7	4.5	-2.3	4.8	-1.7	-19.3
	15201 Pembuatan kasut kulit								
	15203 Pembuatan kasut getah	2.7	-2.1	-14.2	5.4	-2.8	6.1	8.3	-22.8
	Industri lain	-10.8	-3.0	-12.7	2.3	-1.0	1.6	-20.7	-9.4
161/ 16100	Pengilangan dan pengetaman kayu	0.4	-1.3	2.6	4.3	-6.1	-5.0	3.8	3.8

2021										2022		Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-4.5	6.9	9.0	8.4	7.6	7.9	5.7	5.7	4.3	4.4	4.6	Processing and preserving of meat	
7.5	10.9	9.3	7.2	1.0	-3.3	-1.8	-3.7	-4.4	-1.9	-4.9	Processing and preserving of fish, crustaceans and molluscs Canning of fish, crustaceans and molluscs	
7.6	10.7	8.6	7.1	0.9	-4.5	-1.8	-5.1	-5.9	-3.8	-6.2	Processing, curing and preserving of fish, crustacean and molluscs	
6.8	11.6	12.7	7.4	1.6	1.6	-1.6	2.2	2.1	6.7	0.4	Other industry	
13.0	-0.3	6.3	10.2	9.0	0.2	1.7	0.1	-0.4	-0.5	2.1	Processing and preserving of fruits and vegetable Pineapple canning	
6.0	10.2	-1.0	1.9	-5.5	-50.0	-46.0	-45.6	-46.8	-49.4	-51.1	Manufacture of jams, marmalades and table jellies	
13.9	-1.3	7.2	11.2	11.0	6.7	7.4	5.5	5.0	5.9	8.4	Other industry	
-1.2	-1.1	-0.4	0.6	5.3	-6.1	-0.2	3.6	4.1	5.7	6.4	Manufacture of vegetable and animal oils and fats Manufacture of crude and refined vegetable oil	
3.2	21.2	12.3	8.6	4.3	7.7	5.6	4.1	3.5	3.0	3.0	Manufacture of compound cooking fats	
-17.3	-0.7	-5.4	-24.3	-28.0	-28.2	-19.1	-21.3	-21.3	-24.3	-15.6	Manufacture of coconut oil	
-0.6	-2.6	-1.1	1.2	6.9	-6.1	0.2	4.7	5.3	7.2	7.7	Other industry	
7.4	12.6	13.8	18.1	18.3	20.1	19.2	0.03	1.4	10.3	11.7	Manufacture of dairy products Manufacture of condensed, powdered and evaporated milk	
8.3	14.3	15.7	21.6	23.0	23.5	22.1	0.3	2.1	12.2	12.6	Other industry	
2.1	2.3	1.9	-1.2	-7.8	0.2	1.8	-2.1	-3.6	-1.8	5.2	Manufacture of grain mill products, starches and starch products	
2.3	8.0	12.1	15.8	6.7	3.8	2.0	3.5	1.8	1.4	1.7	Rice milling	
-3.0	-3.9	0.1	0.2	3.6	4.2	5.4	9.2	6.3	4.2	3.7	Flour milling	
8.2	24.1	29.6	37.7	8.6	3.2	-2.1	-2.8	-3.4	-1.7	-0.3	Other industry	
4.1	8.3	6.6	15.4	17.1	4.5	5.9	6.1	5.1	4.4	0.4	Manufacture of other food products Manufacture of biscuits and cookies	
0.5	1.6	0.03	-2.1	-0.5	0.4	5.3	10.3	11.0	9.3	8.3	Manufacture of bread, cakes and other bakery products	
8.0	1.3	0.9	-1.7	1.3	4.4	8.9	12.4	15.6	12.7	17.6	Manufacture of snack products	
-10.5	-13.5	-7.8	-8.4	-6.7	-5.1	-4.0	1.0	2.8	-1.3	-1.6	Manufacture of sugar	
7.4	11.5	8.5	7.3	4.6	9.3	12.6	12.6	6.4	12.9	13.4	Manufacture of cocoa products	
-16.6	-14.1	-12.2	-17.1	5.4	-0.1	1.9	1.8	8.7	10.5	4.4	Manufacture of chocolate and chocolate products	
-26.6	-12.3	-36.5	-22.0	-20.9	-20.1	-13.9	21.3	20.8	23.0	35.0	Manufacture of sugar confectionery	
-6.7	-4.7	-4.9	-3.6	-2.3	-2.4	4.6	8.2	8.1	9.7	10.0	Manufacture of sauces and condiments	
-9.3	2.1	-0.1	-8.3	-9.9	-2.2	20.2	24.7	27.7	13.5	4.1	Manufacture of other food products n.e.c.	
19.8	26.8	21.2	10.2	14.4	8.4	11.6	24.4	24.0	21.7	22.6	Other industry	
13.6	13.5	6.7	3.9	4.4	4.1	7.2	9.9	9.3	10.3	7.4	Manufacture of prepared animal feeds	
6.1	3.6	4.4	6.4	11.3	3.5	5.1	5.7	5.5	2.4	2.1	Manufacture of beverages Manufacture of soft drinks	
-14.0	-0.1	0.2	-0.2	-5.6	-3.2	0.4	0.6	0.8	0.1	-0.04	Production of natural mineral waters and other bottled waters	
-17.3	-0.2	1.5	2.8	-1.7	-2.0	0.1	2.2	2.5	2.7	2.5	Other industry	
8.8	17.8	8.8	4.6	-1.9	1.4	5.7	3.3	3.9	4.8	2.4	Manufacture of tobacco products	
-35.5	-31.5	-30.3	-34.1	-41.7	-24.2	-12.4	-19.1	-21.3	-28.8	-26.1	Spinning, weaving and finishing of textiles Preparation and spinning of textile fibres	
-18.7	17.9	17.6	14.5	2.3	1.2	1.5	0.2	0.1	0.9	1.3	Weaving of textiles	
-7.6	4.6	5.6	-3.3	-4.9	-6.5	-4.9	-0.5	5.3	5.9	6.0	Dyeing, bleaching, printing and finishing of yarns and fabrics	
-3.2	8.8	14.9	2.9	-2.9	-10.2	-6.9	-2.0	3.0	3.3	3.5	Other industry	
-16.6	-9.5	-16.5	-14.2	-7.0	2.0	-0.1	3.8	11.7	12.1	12.5	Manufacture of other textiles Manufacture of knitted and crocheted fabrics	
-2.6	311.4	234.1	-20.1	-31.4	-2.9	-3.8	-6.7	-6.2	-2.6	-0.1	Other industry	
0.5	17.0	4.2	-5.5	-3.6	-0.4	-0.01	1.4	2.4	2.8	-1.2	Manufacture of wearing apparel, except fur Manufacture of clothings	
-11.5	16.6	-0.3	-7.8	-7.4	-3.8	-2.9	1.2	3.5	4.8	-1.3	Other industry	
7.4	17.1	6.7	-4.3	-1.6	1.5	1.6	1.5	1.8	1.8	-1.2	Manufacture of articles of fur, knitted and crocheted apparel	
-27.5	-10.0	-15.1	-26.4	-16.6	-10.4	-11.6	-10.6	1.8	2.4	3.3	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur	
-36.6	-18.8	-19.7	-30.7	-16.4	-7.3	-9.1	-7.9	3.2	2.1	1.8	Manufacture of footwear Manufacture of leather footwear	
3.5	16.2	-2.2	-15.6	-17.1	-17.3	-17.4	-16.6	-1.3	3.2	6.5	Manufacture of rubber footwear	
-18.3	-8.6	-5.4	-14.8	-7.4	-23.6	-21.0	-23.7	-8.3	-8.0	-1.1	Other industry	
-0.2	18.7	22.0	3.3	-9.6	-0.8	1.4	3.0	3.0	-3.5	1.9	Sawmilling and planning of wood	
-18.6	14.3	11.1	-10.0	-10.0	0.8	2.5	4.2	3.8	6.6	3.4		
-22.8	17.3	13.6	-11.4	-11.8	1.8	1.9	4.6	4.6	9.1	3.7		
-6.6	7.7	5.6	-6.2	-5.6	-1.5	4.0	3.0	1.7	0.3	2.7		
0.3	22.7	4.3	-10.2	-6.1	-5.8	-6.4	-6.0	-4.0	-4.9	-1.3		

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	-4.8	2.4	-8.2	2.2	3.5	13.4	-8.0	-10.6
16211	Pembuatan kepingan venier dan papan lapis	-8.8	-3.2	-18.0	-8.3	0.3	16.4	-18.6	-20.0
16212	Pembuatan papan partikel dan papan gentian	-12.5	5.7	-11.4	5.8	9.2	22.2	-10.3	-13.8
16221	Pertukangan kayu untuk jurubina	11.7	15.9	23.7	24.4	8.2	9.1	22.9	23.3
	Industri lain	-1.3	1.7	-6.2	7.8	3.2	3.4	-2.9	-11.3
170	Pembuatan kertas dan produk kertas	-5.8	0.7	-4.7	3.1	0.7	4.3	-5.0	-4.8
17010	Pembuatan pulpa, kertas dan kertas tebal	-2.3	-1.9	-14.9	-5.1	-0.4	15.1	-18.5	-14.5
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	-10.5	0.9	-5.2	7.2	-0.5	2.8	-6.3	-7.1
17091	Pembuatan sampul surat dan kad surat	-6.4	1.5	-8.7	-0.03	9.2	6.9	-9.6	-6.3
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	-1.0	2.3	-0.2	6.7	0.8	1.9	0.4	0.1
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	-7.5	-12.8	-12.1	-18.7	-11.4	-9.1	-6.0	-9.7
	Industri lain	6.7	27.3	21.7	37.5	28.2	23.1	17.2	21.2
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	-2.8	-0.8	-4.1	2.3	-2.8	1.8	-5.5	-3.6
18110	Percetakan	-1.8	-0.5	-4.2	2.8	-2.3	2.1	-4.6	-4.0
18120	Aktiviti perkhidmatan berkaitan percetakan								
&		-7.4	-2.4	-3.6	-0.7	-5.1	-0.1	-10.0	-1.5
18200	Penerbitan semula media rakaman								
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	-4.4	1.9	-3.1	6.4	5.2	0.6	-4.9	-2.4
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	-16.9	-2.2	-21.5	4.8	9.0	5.5	-22.7	-22.0
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	-41.2	-9.0	-47.6	19.0	16.7	22.1	-46.8	-48.1
20112	Pembuatan kimia organik asas								
&		-3.4	3.1	-7.1	-1.4	14.2	8.2	-9.0	-7.0
20113	Pembuatan sebatian bukan organik								
20121	Pembuatan baja								
&		-39.0	-17.1	-44.8	12.8	-2.3	-5.3	-45.8	-45.7
20129	Pembuatan produk campuran nitrogen								
20131	Pembuatan plastik dalam bentuk primer	-13.7	-3.4	-21.2	9.5	2.7	1.6	-22.3	-22.9
	Industri lain	-8.7	7.7	1.5	14.5	12.4	3.6	-5.9	2.9
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	4.9	3.1	11.5	6.6	-4.4	-0.8	9.8	12.4
20210	Pembuatan racun perosak dan produk agrokimia lain	2.3	31.5	49.3	34.2	23.8	20.7	56.7	46.9
20221	Pembuatan cat, varnis dan penyadur dan mastik	-2.2	2.9	6.7	2.2	-0.5	3.0	20.7	-1.9
20222	Pembuatan dakwat cetak	20.3	-6.4	21.7	-11.5	-15.2	-16.1	26.0	21.2
20231	Pembuatan sabun dan bahan pencuci, penyediaan								
&	membersih dan mengilat	1.8	-3.3	1.7	9.8	-10.0	-12.7	-7.6	3.4
20232	Pembuatan pewangi dan penyediaan dandanan diri								
20291	Pembuatan plat fotografi, filem, sensitized paper dan								
&	other sensitized unexposed materials								
20292	Pembuatan dakwat menulis dan melukis	7.7	8.0	15.6	6.3	-2.5	13.3	14.7	22.2
&									
20299	Pembuatan produk kimia lain t.t.t.l.								
	Industri lain	0.4	-0.8	-1.3	-2.1	0.5	-0.4	-6.3	2.4
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	9.5	13.7	14.6	14.8	13.9	11.9	13.9	14.6
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	9.8	12.1	13.1	13.5	10.3	11.5	12.6	12.6
	Industri lain	8.1	20.9	21.1	20.6	29.0	13.5	19.2	23.3
221	Pembuatan produk getah	7.7	8.9	7.3	11.5	14.3	2.3	9.4	6.8
22111	Pembuatan tayar getah untuk kenderaan	-7.3	-2.2	-14.2	5.0	0.4	0.7	-14.3	-23.1
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	6.9	14.7	19.1	21.0	8.1	11.6	16.1	9.4
22191	Pembuatan produk lain daripada getah asli atau sintetik,								
&	tidak divulkan, divulkan atau dikeraskan	2.2	15.2	25.6	22.2	11.6	3.8	13.8	28.0
22193	Pengilangan semula getah dan prosesan susu getah								
22192	Pembuatan sarung tangan getah	15.8	15.6	7.1	15.7	30.3	8.0	15.3	7.4
22199	Pembuatan produk getah lain yang t.t.t.l.	1.9	-7.8	4.5	-5.5	-16.8	-13.3	5.1	5.9
222	Pembuatan produk plastik	8.5	6.5	15.9	11.5	-0.5	0.7	14.5	14.5
22201	Pembuatan produk plastik separa siap								
&		11.1	1.3	8.7	4.8	-3.8	-3.6	13.2	7.5
22202	Pembuatan produk plastik siap								
22203	Pembuatan artikel plastik untuk pembungkusan	10.3	13.0	18.6	19.5	5.2	9.7	9.5	9.9
22204	Pembuatan barangan plastik jurubina	3.7	2.6	9.5	13.2	-8.4	-3.3	5.5	4.8
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	24.5	13.1	34.0	14.6	1.6	7.2	35.0	36.0
22209	Pembuatan pelbagai produk plastik t.t.t.l.	2.5	7.2	18.9	13.4	-0.6	-1.0	15.5	21.2
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	-5.1	12.3	-2.9	10.9	14.4	28.8	-8.0	-5.7

2021										2022	Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
-6.0	5.7	3.2	-2.2	-1.1	3.0	8.6	11.9	14.5	13.7	10.3	Manufacture of products of wood, cork, straw and plaiting materials
-15.2	-7.0	-5.7	-12.1	-7.9	-1.0	10.2	14.5	16.1	18.5	12.8	Manufacture of veneer sheets and plywood
-10.2	-0.3	6.8	11.3	6.6	9.5	11.5	17.8	26.3	22.3	26.7	Manufacture of particle board and fibreboard
24.9	35.6	23.9	14.5	9.2	7.8	7.5	7.4	11.0	9.1	4.8	Manufacture of builders' carpentry
-4.3	19.3	4.8	0.5	2.1	4.6	2.8	5.2	5.5	-0.4	-1.0	Other industry
-4.3	5.5	3.1	0.8	-0.8	0.5	2.3	3.2	5.5	4.2	4.0	Manufacture of paper and paper products
-11.6	-4.2	-6.2	-5.0	-2.1	-1.9	2.9	12.3	17.5	15.5	17.6	Manufacture of pulp, paper and paperboard
-2.1	8.7	7.0	6.0	-4.3	1.2	1.6	1.9	4.0	2.6	4.9	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
-10.1	-8.9	4.9	4.9	9.5	8.5	9.5	8.1	6.9	5.7	2.4	Manufacture of envelopes and letter-card
-1.0	19.3	2.0	-0.6	2.6	-1.6	1.4	0.6	2.7	2.5	-4.1	Manufacture of household and personal hygiene paper
-19.5	-18.6	-16.7	-20.8	-11.3	-13.6	-9.3	-9.5	-8.7	-9.1	-12.6	Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
26.8	38.4	42.5	31.8	27.8	30.4	26.6	23.2	25.9	20.6	23.6	Other industry
-3.2	4.0	3.2	-0.4	-2.9	-2.5	-2.9	0.4	2.2	2.6	1.6	Printing, service activities related to printing and reproduction of recorded media
-4.0	4.2	4.4	0.01	-2.4	-2.1	-2.5	0.5	2.5	3.2	1.5	Printing
1.4	3.1	-2.5	-2.9	-5.7	-4.6	-5.1	-0.3	0.7	-0.6	2.4	Service activities related to printing
											Reproduction of recorded media
-2.1	3.9	5.8	9.5	5.3	5.4	4.9	1.0	0.6	0.4	0.2	Manufacture of refined petroleum products
-19.7	6.6	0.8	7.0	9.4	10.4	7.3	8.0	4.4	4.4	4.2	Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
-47.9	19.5	17.5	19.9	15.9	19.0	15.1	14.1	24.8	27.8	30.1	Manufacture of liquefied or compressed inorganic industrial or medical gases
											Manufacture of basic organic chemicals
-5.1	0.5	-8.7	3.7	16.1	16.0	10.7	13.0	6.3	5.7	8.1	Manufacture of inorganic compounds
											Manufacture of fertilizers
-43.1	19.7	18.1	3.1	-2.7	-1.1	-3.1	-3.4	-7.1	-5.4	-14.5	Manufacture of associated nitrogen products
-18.3	9.7	7.5	11.4	1.6	3.8	2.6	2.1	1.2	1.4	-3.0	Manufacture of plastics in primary forms
8.2	12.5	14.3	16.7	11.8	13.0	12.2	11.0	0.6	-0.2	10.2	Other industry
12.3	9.3	10.2	0.7	-3.3	-5.5	-4.5	-0.9	-0.7	-0.9	-0.8	Manufacture of other chemical products and man-made fibres
44.7	25.6	42.4	35.6	26.0	19.4	26.1	30.9	19.2	13.2	2.8	Manufacture of pesticides and other agrochemical products
1.3	3.7	3.1	-0.3	2.3	-2.9	-0.8	0.4	5.5	3.2	2.8	Manufacture of paints, varnishes and similar coatings ink and
18.5	-12.1	-8.3	-14.1	-13.9	-15.5	-16.1	-16.8	-13.6	-17.8	-17.6	Manufacture of printing ink
10.1	15.0	16.4	-0.5	-7.8	-11.3	-10.7	-11.1	-14.7	-12.2	-10.5	Manufacture of soap and detergents, cleaning and polishing preparations
											Manufacture of perfumes and toilet preparations
											Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
10.4	12.0	6.8	0.6	-3.6	-2.5	-1.5	9.9	14.4	15.3	14.6	Manufacture of writing and drawing ink
											Manufacture of other chemical products n.e.c.
0.6	-2.3	2.6	-6.3	-2.9	1.0	3.6	4.0	-1.0	-3.7	2.3	Other industry
15.3	15.7	15.3	13.3	13.4	14.6	13.6	15.1	9.9	10.8	10.5	Manufacture of pharmaceuticals, medicinal chemical and botanical products
14.0	13.9	13.1	13.3	8.9	11.5	10.6	12.7	9.3	12.4	9.6	Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
20.7	23.5	25.2	13.3	32.7	27.8	26.4	26.3	12.3	4.1	14.4	Other industry
5.6	4.6	7.6	21.5	18.1	15.7	9.1	6.4	1.2	-0.6	0.6	Manufacture of rubber products
-4.9	-5.3	12.7	7.7	3.7	-2.8	0.3	-1.4	-3.2	7.1	2.1	Manufacture of rubber tyres for vehicles
31.5	28.4	23.4	11.4	6.1	9.7	8.5	15.1	11.3	8.4	8.5	Manufacture of interchangeable tyre treads and retreading rubber tyres
36.4	19.6	31.3	16.7	16.6	13.4	5.6	5.2	0.2	6.0	3.1	Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
-0.9	-2.5	7.9	38.9	35.4	33.1	22.3	15.5	7.5	1.2	6.6	Rubber remilling and latex processing
2.5	13.5	-13.6	-14.7	-16.5	-17.3	-16.6	-13.5	-12.9	-13.4	-15.6	Manufacture of rubber gloves
											Manufacture of other rubber products n.e.c.
18.6	19.5	13.2	2.6	0.3	-0.9	-1.0	0.1	0.9	1.2	0.3	Manufacture of plastics products
											Manufacture of semi-manufactures of plastic products
5.8	8.0	9.8	-3.1	-2.8	-3.7	-4.9	-5.6	-2.5	-2.5	-2.0	Manufacture of finished plastic products
37.7	37.1	15.2	9.1	5.5	6.1	4.1	9.5	8.4	11.1	7.6	Manufacture of plastic articles for the packing of goods
18.6	25.1	15.5	0.4	-8.6	-9.7	-6.8	-6.0	-4.6	0.7	-2.6	Manufacture of builders' plastics ware
31.2	24.9	18.0	2.8	-3.7	4.1	4.4	10.6	5.0	6.2	4.3	Manufacture of plastic tableware, kitchenware and toilet articles
20.1	21.7	14.4	4.9	1.6	-2.8	-0.6	-1.0	-0.5	-1.5	-2.3	Manufacture of diverse plastic products n.e.c.
6.0	12.9	9.5	10.3	8.6	8.1	27.1	31.2	26.2	29.0	25.5	Manufacture of glass and glass products

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	-1.0	-0.3	-3.6	4.0	-1.3	-0.2	-3.0	-5.2
23911	Pembuatan mortar refraktori dan konkrit								
&		-5.0	-11.4	-16.4	-4.4	-8.3	-15.6	-14.7	-21.4
23921	Pembuatan seramik bukan refraktori								
23930	Pembuatan produk porselin dan seramik lain	-1.8	-0.6	6.5	3.6	-6.3	-5.4	20.8	-1.9
23941	Pembuatan simen hidrolik	1.6	-5.2	-11.4	-4.7	-1.7	-2.1	-9.2	-11.0
23951	Pembuatan konkrit dan mortar siap bancuh dan bancuhan kering	-4.1	3.2	-3.3	8.7	1.5	6.6	-1.8	-5.4
23952	Pembuatan konkrit pratuangan, simen atau artikel batu								
&	buatan yang digunakan dalam pembinaan;								
23953	Pembuatan komponen struktur pasang siap untuk	3.0	2.2	5.3	6.2	-0.1	-2.0	4.1	3.3
&	bangunan atau kejuruteraan awam dari simen, batu								
	atau konkrit buatan								
23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.								
23990	Pembuatan produk mineral bukan logam lain t.t.t.l.	-5.7	-4.7	-14.7	-8.4	-1.5	7.5	-15.9	-13.4
	Industri lain	2.7	8.1	3.1	26.1	0.6	4.6	3.5	3.5
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	-7.5	-0.5	-3.2	-0.5	-3.5	5.3	-5.7	-6.9
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	-6.7	4.5	-5.7	9.8	6.4	8.8	-3.2	-4.9
243	Pengacuan logam	-10.4	2.2	-0.4	11.5	-2.8	2.0	-8.3	-3.0
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	-1.2	-1.6	1.7	1.5	-6.7	-2.8	2.3	-0.9
25113	Pembuatan pintu, tingkap dan bingkai, penutup tingkap								
&	dan pintu pagar daripada logam	-1.5	-10.6	-3.7	-3.9	-18.7	-15.0	-1.2	-7.8
25119	Pembuatan produk struktur logam lain								
25120	Pembuatan tangki, takungan dan kontena daripada	2.9	17.5	16.5	14.3	18.4	20.4	13.7	16.8
	logam								
	Industri lain	-8.3	-2.8	-3.8	-2.8	-5.7	1.2	-4.4	-5.7
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	4.6	4.9	6.8	5.6	1.1	6.2	8.5	5.5
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan	8.2	7.4	14.4	9.0	2.0	4.7	20.7	11.1
	logam; serbuk metalurgi								
25920	Rawatan dan penyalutan logam; menggunakan mesin	20.3	13.0	26.3	24.0	2.5	2.6	26.0	27.4
25991	Pembuatan tin untuk produk makanan dan minuman,	9.1	2.4	5.2	-3.8	-0.4	7.9	10.2	9.3
	tiub dan kotak boleh dilipat								
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal)								
&	dan artikel seumpamanya daripada logam								
25993	Pembuatan bolt, skru, nat dan produk uliran	-7.4	10.2	1.1	3.8	9.6	26.1	-1.5	1.1
	seumpamanya								
25994	Pembuatan barangan rumah daripada logam	-11.5	-8.1	-10.6	0.7	-10.8	-11.5	-16.5	-12.8
25999	Pembuatan produk lain yang direka daripada logam	7.5	2.5	3.4	6.1	-0.02	0.8	3.7	2.0
	t.t.t.l.								
	Industri lain	3.6	-13.3	-4.1	-11.2	-17.8	-19.3	5.9	-13.5
261	Pembuatan komponen dan papan elektronik	-1.0	5.8	-0.2	11.7	5.0	7.7	-3.5	2.1
26101	Pembuatan diod, transistor dan alatan semikonduktor								
&	yang seumpamanya	-4.2	6.5	-8.2	14.6	12.3	10.8	-11.7	-7.3
26102	Pembuatan litar elektronik bersepadu dengan								
	pasangan mikro								
26103	Pembuatan kapasitor dan perintang elektrik								
&									
26104	Pembuatan papan litar bercetak	5.1	7.0	19.5	9.2	-5.1	5.4	15.1	26.2
&									
26105	Pembuatan komponen paparan								
26109	Pembuatan komponen lain untuk aplikasi elektronik	8.5	-10.7	5.6	-10.1	-19.7	-17.0	11.3	3.5
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	5.9	9.8	5.1	8.5	13.8	12.1	6.9	7.0
263/ 26300	Pembuatan peralatan komunikasi	-13.8	-5.8	-29.5	-1.8	-1.1	17.9	-25.8	-34.6
264/ 26400	Pembuatan peralatan elektronik pengguna	3.3	-4.3	-4.8	-5.6	-7.9	1.0	5.8	-12.3
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	-1.1	5.7	-3.5	2.5	9.6	14.5	-5.8	-7.7
26511	Pembuatan kelengkapan mengukur, menguji, memandu								
&	arah dan kawalan	0.03	6.8	-2.4	3.4	11.3	15.5	-4.2	-7.1
26512	Pembuatan kelengkapan kawalan proses perindustrian								
26520	Pembuatan jam tangan dan jam dan bahagiannya	-10.3	-4.6	-13.4	-5.3	-4.5	5.4	-20.0	-12.2
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	-4.6	15.4	0.4	19.0	17.7	26.3	-8.8	-4.7

2021										2022	Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.	
-2.5	9.2	5.9	-2.8	-2.3	-1.3	-0.3	0.0	-1.7	1.1	0.6	Manufacture of non-metallic mineral products
											Manufacture of refractory mortars and concretes
-13.1	0.5	-5.0	-8.4	-6.6	-7.8	-10.5	-7.1	-21.8	-18.0	-26.6	Manufacture of non-refractory ceramic
1.6	0.8	8.1	1.8	-7.9	-3.3	-7.6	-1.7	-12.6	-1.4	-6.4	Manufacture of other porcelain and ceramic products
-13.9	10.0	-7.4	-14.3	-4.4	-5.2	4.9	4.3	1.4	-10.3	3.2	Manufacture of hydraulic cement
-2.9	14.9	6.2	5.6	2.5	0.8	1.1	3.7	5.1	10.9	6.4	Manufacture of ready-mix and dry-mix concrete and mortars
											Manufacture of precast concrete, cement or artificial stone articles for use in construction
8.7	9.3	10.6	-1.1	-0.4	-0.2	0.2	-2.0	-2.0	-2.1	1.1	Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone
											Manufacture of other articles of concrete, cement and plaster n.e.c.
-14.8	-12.3	2.0	-13.7	-6.4	1.2	0.9	1.7	5.3	14.9	8.7	Manufacture of other non-metallic mineral products n.e.c.
2.4	49.2	21.4	9.6	-2.9	-0.8	5.7	3.7	3.9	6.1	8.5	Other industry
3.7	8.1	-3.8	-5.2	-6.8	-6.3	2.5	2.9	5.2	7.6	5.9	Manufacture of basic iron and steel
-8.7	8.3	14.3	7.0	5.7	4.1	9.6	11.2	10.6	5.2	6.9	Manufacture of basic precious and other non-ferrous metals
11.8	16.3	10.3	7.9	-5.4	-3.5	0.3	1.9	3.6	0.6	1.1	Casting of metals
3.8	10.9	2.3	-7.7	-6.9	-9.4	-3.6	-1.2	-4.3	-2.8	-0.7	Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition
											Manufacture of metal doors, windows and their frames, shutters and gates
-2.1	11.2	-1.8	-18.7	-19.4	-20.8	-15.9	-14.7	-16.4	-14.0	-10.0	Manufacture of other structural metal products
18.8	16.0	14.8	12.1	19.4	14.4	21.5	25.3	17.8	18.6	20.6	Manufacture of tanks, reservoirs and containers of metal
-1.2	-0.6	-6.6	-0.9	-6.1	-8.5	-2.4	2.8	0.8	0.1	-7.8	Other industry
6.3	8.7	6.0	2.3	-2.5	-1.2	6.8	6.5	6.4	5.6	4.0	Manufacture of other fabricated metal products; metal working service activities
11.7	15.4	8.3	4.0	2.0	2.1	2.0	5.2	5.1	3.8	-3.6	Forging, pressing, stamping and roll-forming of metal; powder metallurgy
25.5	31.6	24.3	17.1	1.7	1.7	4.1	4.4	1.2	2.3	0.6	Treatment and coating of metals; machining
-3.9	0.9	-7.3	-4.9	-6.7	-2.9	8.4	11.5	5.3	7.5	2.3	Manufacture of tins and cans for food products, collapsible tubes and boxes
											Manufacture of metal cable, plaited bands and similar articles
3.6	5.3	3.9	2.2	-2.3	0.3	31.0	24.0	30.5	24.2	25.3	Manufacture of bolts, screws, nuts and similar threaded products
-1.3	5.3	5.4	-8.5	-7.9	-10.8	-13.7	-11.0	-15.5	-7.9	-13.4	Manufacture of metal household articles
4.6	14.0	5.3	-0.4	-1.9	0.8	1.1	1.0	0.1	1.2	2.7	Manufacture of any other fabricated metal products n.e.c.
-4.9	-25.2	-0.5	-3.1	-14.9	-18.2	-20.3	-20.3	-18.8	-18.8	-17.6	Other industry
0.7	12.1	11.2	11.9	6.6	6.1	2.4	4.8	7.8	10.3	6.0	Manufacture of electronic components and boards
											Manufacture of diodes, transistors and similar semiconductor devices
-5.6	8.1	14.4	21.5	13.9	15.4	7.7	7.7	10.7	13.6	7.3	Manufacture of electronic integrated circuits micro assemblies
											Manufacture of electrical capacitors and resistors
17.1	23.1	8.2	-1.9	-2.9	-7.5	-4.8	2.4	6.1	7.5	5.3	Manufacture of printed circuit boards
											Manufacture of display components
2.1	1.0	-9.7	-20.2	-20.3	-20.6	-18.3	-16.8	-17.2	-17.0	-7.0	Manufacture of other components for electronic applications
1.5	4.8	8.2	12.7	3.6	7.3	31.8	20.6	9.7	7.0	2.0	Manufacture of computers and peripheral equipment
-27.9	-10.6	3.2	4.9	-4.8	0.6	0.9	1.6	20.1	34.2	23.3	Manufacture of communication equipment
-8.2	-2.8	-3.8	-10.1	-14.9	-6.7	-2.5	1.5	3.1	-1.5	8.6	Manufacture of consumer electronics
3.5	4.9	2.9	-0.3	5.0	10.9	13.0	8.5	16.9	17.7	17.4	Manufacture of measuring, testing, navigating and control equipment; watches and clocks
											Manufacture of measuring, testing, navigating and control equipment
4.8	5.1	4.3	0.8	6.4	12.8	14.8	9.7	18.0	18.4	16.3	Manufacture of industrial process control equipment
-7.3	3.4	-8.3	-9.6	-6.0	-4.8	-2.7	-2.2	6.9	10.8	28.8	Manufacture of watches and clocks and parts
15.0	17.0	19.1	20.7	20.4	17.5	15.1	28.7	30.0	19.6	18.2	Manufacture of irradiation, electromedical and electrotherapeutic equipment

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2020	2021	2021					
				Q1	Q2	Q3	Q4	Jan.	Feb.
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	-3.6	0.4	2.6	-1.8	-2.9	3.4	4.4	-0.9
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	0.4	-1.2	-0.3	-5.5	-0.9	1.5	1.2	-1.5
	27101 Pembuatan motor elektrik, penjana dan transformer	-5.8	3.0	-16.8	6.6	11.2	13.6	-16.3	-22.6
	27102 Pembuatan perkakasan pengagihan dan pengawalan	3.8	-3.3	8.8	-11.4	-6.9	-4.1	11.3	10.5
272/ 27200	Pembuatan bateri dan akumulator	4.6	3.5	-3.9	1.2	9.7	6.2	6.1	-12.0
273	Pembuatan pendawaian dan peranti pendawaian	-0.1	13.5	7.1	19.7	13.2	14.9	10.3	7.5
	27310 Pembuatan kabel gentian optikal	-2.8	-1.0	-30.1	-20.7	0.7	45.0	-34.1	-30.0
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	0.4	15.1	10.7	24.3	14.3	12.4	14.7	11.0
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	-5.4	7.4	-3.4	6.5	12.5	14.3	-3.6	-0.7
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	5.4	43.9	21.5	33.5	60.4	60.7	20.4	21.4
275/ 27500	Pembuatan perkakasan domestik	11.1	-17.2	6.4	-8.3	-28.8	-35.9	3.9	3.4
279/ 27900	Pembuatan kelengkapan elektrik lain	2.1	5.7	2.0	4.3	3.3	12.8	7.6	1.8
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	-1.2	3.0	4.4	5.8	0.2	1.8	3.9	4.0
	28120 & Pembuatan alat-alat kuasa bendalir								
	28130 Pembuatan pam, pemampat, kepala paip dan injap lain	-11.2	-0.1	7.8	0.2	-0.4	-6.6	36.3	-4.1
	28180 & Pembuatan alatan tangan yang menggunakan kuasa dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatik	5.3	15.3	26.3	21.2	5.4	10.9	28.4	31.4
	28220 Pembuatan jentera pembentukan logam dan alatan mesin								
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	10.2	-1.9	1.0	-6.2	-1.3	-1.1	0.7	0.2
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	-19.8	1.0	-12.7	17.2	0.5	4.3	-17.5	-20.9
		1.2	0.6	2.2	2.3	-1.7	-0.5	-1.1	6.1
291 (29101 & 29102)	Pembuatan kenderaan bermotor	-12.2	2.6	-10.8	11.2	-1.1	13.6	-10.7	-8.5
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	-14.0	8.6	-10.1	13.6	15.5	18.8	-14.9	-14.3
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	-6.7	-2.6	-6.0	5.1	-3.8	-5.0	-6.9	-7.4
301 (30110 & 30120)	Pembinaan kapal dan bot	-7.6	-4.7	0.5	1.0	-11.8	-8.7	-11.6	-6.6
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.	-14.5	1.0	-12.3	10.5	4.0	5.5	-13.1	-13.8
	30910 Pembuatan motosikal	-13.5	10.7	-4.5	19.1	13.3	18.4	-6.8	-7.8
	30920 Pembuatan basikal dan invalid carriages	0.1	-4.2	5.6	8.4	-11.1	-17.8	11.1	0.05
	Industri lain	-22.9	-14.3	-33.3	-5.1	-4.7	-4.4	-33.8	-30.8
310	Pembuatan perabot	1.2	2.4	3.4	4.6	-3.3	5.2	3.2	3.4
	31001 Pembuatan perabot kayu dan rotan	3.9	3.9	5.8	4.4	-1.7	7.0	6.2	6.7
	Industri lain	-6.1	-2.0	-3.5	5.4	-8.3	-0.8	-5.2	-5.6
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	4.0	3.3	8.6	8.0	-5.9	3.0	10.7	9.5
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	4.1	7.9	10.2	8.7	7.5	5.5	8.2	9.6
	32901 Pembuatan alat tulis	-10.8	-0.1	-11.1	-1.8	6.2	8.8	-15.7	-15.0
	Industri lain	9.4	10.3	17.4	11.9	7.8	4.7	16.9	18.4
323/ 32300	Pembuatan barangan sukan	1.1	7.0	11.3	13.6	0.5	3.6	9.5	7.7
324/ 32400	Pembuatan permainan dan mainan	4.3	-0.4	-27.3	-22.0	9.6	40.1	-25.5	-26.7
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	-7.2	1.6	-3.9	4.4	1.7	4.7	-6.2	-5.5
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	-6.9	-6.2	-7.6	-10.9	-2.7	-3.1	-9.0	-8.4
	Industri lain	-7.3	3.9	-2.8	9.4	3.0	6.9	-5.4	-4.6
Jumlah Pembuatan		-1.1	3.0	-0.6	6.0	2.3	4.7	-1.4	-1.3

2021										2022		Group Description/Period
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
4.3	11.1	-7.2	-7.3	-4.5	-0.9	-3.2	-0.4	2.4	7.8	2.7	Manufacture of optical instruments, photographic equipment, magnetic and optical media	
-0.7	-7.9	-5.7	-3.0	-3.2	-1.4	1.9	1.9	3.4	-0.6	-2.5	Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus	
-10.6	7.7	3.1	9.2	8.8	11.8	13.0	13.4	12.9	14.5	13.1	Manufacture of electric motors, generators and transformers	
4.3	-15.3	-9.9	-9.2	-9.3	-8.0	-3.6	-3.7	-1.1	-7.0	-9.2	Manufacture of electricity distribution and control apparatus	
-5.9	-3.7	1.3	5.4	3.8	14.8	10.6	10.6	3.7	4.3	6.8	Manufacture of batteries and accumulators	
3.3	27.9	18.0	14.7	11.4	10.9	17.1	15.5	14.2	14.9	10.9	Manufacture of wiring and wiring devices	
-25.9	-21.7	-21.5	-19.2	-19.3	-15.1	37.3	37.0	48.5	49.1	60.5	Manufacture of fibre optic cables	
6.2	33.7	22.5	18.1	14.3	12.9	15.6	13.8	11.3	12.2	8.2	Manufacture of other electronic and electric wires and cables	
-5.8	5.1	1.7	12.1	9.5	17.4	10.8	14.1	14.8	14.0	19.1	Manufacture of current-carrying and non current-carrying wiring devices for electrical circuits regardless of material	
22.7	24.3	17.8	60.3	57.9	60.1	63.4	61.2	59.0	61.8	43.2	Manufacture of electric lighting equipment	
12.5	-6.4	0.6	-17.4	-21.6	-27.5	-37.3	-36.0	-36.3	-35.5	-30.5	Manufacture of domestic appliances	
-3.3	5.9	5.5	1.3	-1.2	1.9	9.2	4.5	6.6	27.1	21.6	Manufacture of other electrical equipment	
5.2	10.0	7.6	0.03	-1.9	1.7	0.8	1.1	3.2	1.2	2.0	Manufacture of general-purpose and special-purpose machinery	
-0.8	6.7	-1.5	-4.4	-1.9	1.8	-1.2	-5.9	-7.9	-6.2	-1.4	Manufacture of fluid power equipment	
18.9	23.7	23.9	16.1	5.1	5.4	5.6	9.6	16.6	7.2	-7.7	Manufacture of other pumps, compressors, taps and valves	
2.2	-0.8	0.7	-16.1	-7.6	4.8	-0.9	-3.5	4.9	-4.3	-2.1	Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives	
6.0	14.9	18.7	18.4	0.1	0.6	0.8	1.2	2.0	9.0	5.7	Manufacture of metal-forming machinery and machine tools	
1.8	7.5	2.7	-2.9	-3.3	-1.0	-0.6	0.2	-1.2	-0.5	8.1	Manufacture of air-conditioning machines, including for motor vehicles	
-13.4	15.1	19.6	0.2	2.0	-4.5	-0.5	14.6	16.6	10.3	11.0	Manufacture of other special-purpose machinery	
-0.8	17.6	16.7	6.7	11.9	14.6	19.9	20.7	18.4	17.3	13.5	Other industry	
-3.7	7.4	7.3	0.5	-6.3	-4.1	-1.2	-3.4	-5.1	-6.4	-6.1	Manufacture of motor vehicles	
21.6	11.6	-1.0	-6.8	-12.0	-12.9	-10.3	-8.0	-11.8	-6.2	-6.7	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers	
-10.1	13.8	13.9	3.9	2.5	3.3	6.0	7.5	6.4	2.7	2.5	Manufacture of parts and accessories for motor vehicles	
1.0	19.2	21.9	16.1	16.1	10.5	13.3	17.8	21.3	16.0	11.2	Building of ships and boats	
6.3	36.1	8.5	-13.1	-21.1	-3.4	-8.8	-6.1	-20.3	-26.1	-19.7	Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c	
-35.3	-7.7	1.2	-8.5	-8.0	-6.8	1.0	-4.4	-4.9	-4.1	-0.8	Manufacture of motorcycles	
3.6	13.4	5.5	-3.9	-8.2	-7.1	5.2	4.4	5.7	5.4	6.7	Manufacture of bicycles and invalid carriages	
4.6	11.6	6.0	-3.5	-7.2	-6.5	8.4	6.2	7.0	7.8	10.7	Other industry	
0.8	19.2	4.0	-5.2	-11.3	-8.9	-4.6	-1.5	1.4	-2.3	-5.9	Manufacture of furniture	
5.6	16.0	8.8	-0.2	-6.4	-10.0	-1.4	-1.0	0.2	8.9	5.0	Manufacture of wooden and cane furniture	
12.7	15.0	6.0	5.6	6.2	6.7	9.6	5.4	5.6	5.5	2.6	Other industry	
-1.2	6.2	-7.5	-3.3	3.1	5.9	9.8	9.7	9.0	7.6	4.8	Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.	
17.0	17.6	10.4	8.1	7.1	7.0	9.5	4.3	4.8	4.9	2.0	Manufacture of stationery	
17.3	19.9	19.4	2.7	-3.8	-0.2	5.2	5.8	1.2	3.8	-0.6	Other industry	
-29.6	-35.5	-14.2	-13.8	1.2	16.6	10.6	44.2	46.5	32.1	60.4	Manufacture of sports goods	
0.2	5.0	7.1	1.1	0.4	1.1	3.7	3.7	6.5	3.9	3.6	Manufacture of games and toys	
-5.5	-23.0	-1.8	-3.3	-3.2	-3.5	-1.3	-2.2	-1.6	-5.4	-6.2	Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment	
1.9	16.3	9.7	2.3	1.4	2.4	5.1	5.3	8.9	6.6	6.5	Repair and maintenance of transport equipment except motorcycles and bicycles	
0.8	8.2	6.4	3.5	1.5	1.7	3.6	4.4	4.8	4.9	4.1	Other industry	
0.8	8.2	6.4	3.5	1.5	1.7	3.6	4.4	4.8	4.9	4.1	Total Manufacturing	

Jadual Table 1.6c : Gaji dan Upah yang Dibayar Sektor Pembuatan Mengikut Kumpulan: Perubahan Peratusan Bulanan/Suku Tahunan
Salaries and Wages Paid of Manufacturing Sector by Group: Monthly/Quarterly Percentage Change

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
101	Pemprosesan dan pengawetan daging	0.7	0.4	-2.3	6.1	-0.7	-3.9	1.8
102	Pemprosesan dan pengawetan ikan, krustasea dan moluska	1.1	-1.7	-2.0	-0.7	4.4	-5.0	1.2
10201 & 10202	Pengetinan ikan, krustasea dan moluska	0.5	-1.2	-3.8	-0.5	3.2	-4.2	0.9
	Pemprosesan dan pengawetan ikan, krustasea dan moluska							
	Industri lain	3.6	-4.1	5.8	-1.4	9.6	-8.2	2.9
103	Pemprosesan dan pengawetan buah-buahan dan sayur - sayuran	6.4	0.5	-4.8	-2.1	5.4	-1.6	1.0
10303 & 10304	Pengetinan nanas	1.7	-1.9	-31.1	-23.5	-2.7	0.2	-10.2
	Pembuatan jem, marmalad dan sajian jeli							
	Industri lain	6.9	0.8	-1.8	-0.4	6.4	-1.8	2.3
104	Pembuatan minyak dan lemak daripada sayuran dan haiwan	-0.6	1.4	-0.8	4.6	-5.3	-0.2	1.9
10404 & 10406	Pembuatan minyak sayuran mentah dan bertapis	3.1	0.4	-0.1	0.03	2.7	-0.4	0.9
	Pembuatan sebatian lemak masakan							
10405	Pembuatan minyak kelapa	3.1	-6.1	-20.1	0.4	-0.3	-0.3	2.9
	Industri lain	-1.1	1.8	-0.1	5.1	-6.1	-0.2	1.9
105	Pembuatan produk tenusu	1.9	3.2	-2.3	1.2	1.8	0.8	1.0
10502	Pembuatan susu pekat, tepung dan sejat	2.3	2.8	-1.4	1.1	2.1	1.9	-0.04
	Industri lain	-1.3	5.3	-7.8	1.8	0.1	-6.5	8.5
106	Pembuatan produk bijian, kanji dan produk berkanji	3.3	-2.2	0.5	p	2.4	-2.2	0.1
10611	Pengilangan beras	4.8	-2.8	3.3	1.3	5.8	-3.2	-0.3
10613	Pengilangan tepung	0.6	-1.9	-1.6	0.2	-2.3	-0.9	0.3
	Industri lain	12.4	0.2	-4.7	-2.0	12.9	-4.1	1.7
107	Pembuatan produk makanan lain	4.2	0.8	0.6	4.4	2.6	-0.4	1.9
10711	Pembuatan biskut dan cookies	-1.1	-1.5	7.2	8.8	-0.8	-2.7	2.5
10712	Pembuatan roti, kek dan produk bakeri lain	-3.6	2.3	0.9	1.4	-3.7	3.1	0.7
10713	Pembuatan produk snek	7.0	4.4	-2.9	2.0	6.2	-5.1	6.2
10721	Pembuatan gula	3.7	-4.4	1.7	6.2	7.8	-8.5	3.3
10731	Pembuatan produk koko	6.3	13.9	-6.1	7.1	0.4	4.2	1.4
10732	Pembuatan coklat dan produk coklat							
10733 & 10793	Pembuatan konfeksi gula	6.2	0.9	-2.4	3.8	6.3	-1.9	6.3
	Pembuatan sos dan bahan perasa	6.2	-2.5	6.5	10.4	-0.6	0.1	-0.7
10799	Pembuatan produk makanan lain t.t.t.l.	12.8	3.7	-1.9	7.4	5.0	0.3	0.7
	Industri lain	8.4	-1.0	-0.5	2.8	7.6	-1.5	1.8
108/10800	Pembuatan makanan haiwan tersedia	-1.0	-0.6	1.6	4.5	-13.4	0.2	-0.01
110	Pembuatan minuman ringan	-3.0	-7.3	-1.1	12.9	-7.0	-0.9	-4.0
11041	Pembuatan minuman ringan	-6.3	-5.9	0.6	15.5	-10.3	-0.3	-8.1
11042	Pengeluaran air mineral semulajadi dan minuman lain yang dibotolkan	7.9	-5.2	-4.0	6.0	6.7	-1.9	5.1
	Industri lain	-5.6	-23.8	-5.8	12.9	-15.0	-3.2	1.4
120/12000	Pembuatan produk tembakau	-0.1	-15.7	-1.5	21.1	-16.7	7.1	-4.4
131	Pemintalan, penenunan dan penyiapan tekstil	-2.0	-1.7	-2.7	10.4	-3.6	-0.7	-2.3
13110 & 13120	Penyediaan dan pemintalan gentian tekstil	-1.3	-0.9	-4.6	8.7	-0.9	-1.0	-3.3
	Penenunan tekstil							
13132	Pewarnaan, pelunturan, percetakan dan penyiapan akhir benang dan fabrik	-3.5	-3.0	2.0	14.4	-9.8	0.4	-0.1
	Industri lain	-1.1	-6.9	-3.8	7.0	2.3	-2.4	0.6
139	Pembuatan tekstil lain	-1.2	-0.5	1.6	2.2	-0.6	-1.8	1.9
13910	Pembuatan fabrik dikait dan dikrusye	-8.8	3.7	4.1	4.7	-8.4	0.1	0.1
	Industri lain	2.9	-2.4	0.4	0.9	3.6	-2.8	2.7
141	Pembuatan pakaian, kecuali pakaian berbulu	-4.7	-7.6	-0.9	12.2	-5.5	-7.6	0.01
14102	Pembuatan pakaian	-6.1	-7.3	3.6	10.0	-7.4	-9.3	0.1
	Industri lain	-1.4	-8.4	-10.5	17.9	-1.1	-3.9	-0.1
142 & 143	Pembuatan artikel daripada kulit bulu dan pakaian yang dikait dan dikrusye	-3.7	-3.6	-13.0	7.3	-0.1	-9.8	0.4
151 (15110 & 15120)	Penyamakan dan pembersihan kulit, pembuatan begasi, beg tangan, pelana dan abah-abah pembersihan dan pewarnaan bulu	-2.0	-3.4	-4.3	11.3	-5.8	-0.2	-0.03
152	Pembuatan kasut	2.3	-6.7	-4.5	15.0	4.8	-4.6	-0.4
15201 & 15203	Pembuatan kasut kulit	1.4	-7.2	-4.3	17.9	6.0	-6.3	-1.2
	Pembuatan kasut getah							
	Industri lain	4.6	-5.3	-4.9	7.9	1.8	-0.1	1.4
161/16100	Pengilangan dan pengetaman kayu	-7.5	-6.2	4.5	4.8	-8.7	2.0	-5.4

(%)

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
1.5	-0.4	-2.0	-1.4	0.3	1.2	-0.9	9.1	0.4	-0.5		Processing and preserving of meat
-0.9	1.1	-2.1	1.1	-3.3	0.6	-0.1	-0.9	2.4	1.1		Processing and preserving of fish, crustaceans and molluscs
											Canning of fish, crustaceans and molluscs
-0.6	1.5	-2.1	-0.6	-4.5	2.2	-0.5	-1.0	2.1	0.6		Processing, curing and preserving of fish, crustacean and molluscs
-2.0	-0.5	-2.4	8.6	1.8	-6.0	1.5	-0.7	3.3	3.1		Other industry
0.4	-0.01	0.1	-0.5	-6.9	0.8	-1.0	0.1	2.3	8.1		Processing and preserving of fruits and vegetable
											Pineapple canning
0.7	5.7	2.6	-1.4	-49.0	0.7	0.1	-3.2	7.7	-5.8		Manufacture of jams, marmalades and table jellies
0.4	-0.6	-0.2	-0.4	-2.1	0.8	-1.1	0.4	2.0	8.9		Other industry
1.3	-1.0	-1.3	4.3	-10.2	10.2	-0.2	-1.9	9.6	-4.6		Manufacture of vegetable and animal oils and fats
											Manufacture of crude and refined vegetable oil
0.8	-1.1	-0.2	-1.3	3.0	-0.8	0.1	-0.9	0.2	2.7		Manufacture of compound cooking fats
-0.8	-0.3	-20.8	-7.9	0.3	5.5	-3.5	0.4	-0.1	11.1		Manufacture of coconut oil
1.4	-1.0	-0.5	5.2	-11.6	11.4	-0.1	-2.0	10.7	-5.6		Other industry
3.5	-0.3	-3.3	-0.7	1.6	-0.9	-0.5	-1.9	9.3	3.0		Manufacture of dairy products
3.4	0.1	-3.4	0.3	1.4	-1.2	-0.6	-2.0	10.3	2.5		Manufacture of condensed, powdered and evaporated milk
4.6	-2.6	-2.3	-7.7	3.0	1.2	0.3	-1.6	2.3	7.2		Other industry
-1.1	0.1	-1.4	2.2	-2.5	2.8	-0.5	-1.5	3.3	2.7		Manufacture of grain mill products, starches and starch products
-0.5	-0.04	-3.0	3.2	0.4	5.8	-0.8	-2.6	-0.01	5.3		Rice milling
-2.0	0.2	0.2	0.9	-4.0	-0.05	-0.4	-0.3	7.1	-0.9		Flour milling
0.8	0.02	-0.8	3.5	-11.2	-0.1	2.0	-0.8	2.0	8.5		Other industry
0.5	-0.3	-1.9	-0.2	0.7	5.0	0.0	1.3	-0.1	1.7		Manufacture of other food products
-2.3	-0.04	0.2	3.5	2.8	4.7	2.7	3.6	-1.7	3.5		Manufacture of biscuits and cookies
-0.2	2.8	-2.6	-0.2	1.1	3.4	0.3	1.2	-6.9	-3.9		Manufacture of bread, cakes and other bakery products
2.2	-0.03	-0.1	-4.7	2.1	1.7	-0.8	-2.3	7.9	6.7		Manufacture of snack products
-3.7	-0.6	1.8	0.2	-1.6	5.0	-2.8	8.2	2.4	1.8		Manufacture of sugar
31.4	-23.0	0.5	-1.4	2.8	7.4	-0.04	-1.0	5.9	10.2		Manufacture of cocoa products
											Manufacture of chocolate and chocolate products
-1.7	0.01	-2.4	-1.9	-0.2	3.9	0.8	1.0	-0.4	6.6		Manufacture of sugar confectionery
-0.5	0.1	-5.0	-2.5	8.3	20.9	-5.7	2.2	-1.3	-8.8		Manufacture of sauces and condiments
5.3	-0.8	-4.7	3.9	-4.4	2.3	2.0	4.8	6.1	5.8		Manufacture of other food products n.e.c.
-1.0	-0.9	-0.6	-0.3	-0.8	3.1	0.5	-0.5	2.7	4.8		Other industry
-0.9	0.5	-0.3	6.0	-6.4	0.2	0.3	0.1	18.9	-13.6		Manufacture of prepared animal feeds
1.4	-6.6	-4.1	-1.0	3.3	8.9	-0.3	5.6	6.5	-7.2		Manufacture of beverages
2.6	-2.5	-3.5	-0.4	1.0	11.0	0.04	6.7	8.5	-10.4		Manufacture of soft drinks
-0.2	-9.8	-3.4	-2.1	4.1	3.8	-0.5	3.7	0.3	4.3		Production of natural mineral waters and other bottled waters
-3.1	-27.2	-12.9	-2.7	25.6	7.4	-2.4	0.9	7.3	-11.8		Other industry
-14.0	0.3	-4.2	-0.1	-3.4	11.1	4.4	0.4	27.3	-16.4		Manufacture of tobacco products
-0.5	3.0	-4.1	0.3	-2.7	2.0	4.2	5.4	5.2	-3.4		Spinning, weaving and finishing of textiles
											Preparation and spinning of textile fibres
-0.2	5.5	-4.6	0.9	-8.3	4.7	4.1	5.2	2.4	-0.7		Weaving of textiles
-0.9	-2.5	-1.6	-0.3	8.1	-3.1	5.2	6.3	11.6	-9.5		Dyeing, bleaching, printing and finishing of yarns and fabrics
-1.6	2.1	-18.8	-11.9	38.2	-0.9	-2.8	0.5	0.9	4.9		Other industry
-1.3	2.3	-3.8	1.0	3.9	-0.2	0.9	-0.2	1.0	-4.5		Manufacture of other textiles
-1.8	9.2	-1.7	0.03	4.2	-1.4	3.9	-0.4	1.8	-13.7		Manufacture of knitted and crocheted fabrics
-1.0	-1.0	-4.9	1.5	3.7	0.4	-0.7	-0.1	0.6	0.6		Other industry
-0.02	0.5	-16.1	11.6	0.03	0.1	-0.3	12.6	11.0	-4.7		Manufacture of wearing apparel, except fur
0.01	3.5	-18.8	18.3	-0.1	-0.1	-0.9	9.7	12.5	-7.6		Manufacture of clothings
-0.1	-5.8	-9.8	-2.4	0.5	0.3	1.0	19.8	7.7	2.0		Other industry
2.1	0.3	-7.9	1.1	-15.5	4.1	-2.3	16.1	6.8	7.4		Manufacture of articles of fur, knitted and crocheted apparel
											Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur
-1.1	-0.1	-6.7	-8.0	9.8	6.8	2.9	1.3	-1.0	-0.5		
-0.02	-3.6	-7.7	-5.4	9.8	4.0	6.7	1.4	3.1	1.7		Manufacture of footwear
											Manufacture of leather footwear
0.4	-3.8	-7.0	-6.8	12.5	2.4	9.5	1.0	4.2	0.8		Manufacture of rubber footwear
-1.1	-3.2	-9.3	-2.1	3.5	7.8	0.0	2.2	0.2	4.3		Other industry
-0.1	-3.0	-3.9	6.3	-0.4	6.6	-0.1	-0.6	3.3	-5.3		Sawmilling and planning of wood

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
162	Pembuatan produk daripada kayu, gabus, jerami dan bahan jalinan lain	3.3	-2.2	5.4	6.5	3.8	-3.1	0.9
16211	Pembuatan kepingan venier dan papan lapis	-1.1	-3.2	11.3	9.3	-0.7	-1.6	0.4
16212	Pembuatan papan partikel dan papan gentian	3.1	3.0	2.2	12.5	2.6	-3.6	2.4
16221	Pertukangan kayu untuk jurubina	12.2	-0.7	-1.2	-0.9	11.5	-0.5	0.2
	Industri lain	5.4	-5.0	0.5	2.7	8.5	-9.8	2.4
170	Pembuatan kertas dan produk kertas	1.8	-0.6	-1.4	4.6	0.2	0.2	2.6
17010	Pembuatan pulpa, kertas dan kertas tebal	-2.1	0.9	4.2	11.8	-0.5	0.8	1.1
17020	Pembuatan kertas gelugur dan kertas tebal dan bekas daripada kertas dan kertas tebal	1.3	2.6	-4.4	3.5	-0.2	-1.1	6.5
17091	Pembuatan sampul surat dan kad surat	3.8	3.6	0.9	-1.5	-0.8	5.8	-0.8
17092	Pembuatan kertas kegunaan rumah dan pembersih peribadi	1.4	1.4	-3.1	2.2	2.6	-0.3	-0.5
17093	Pembuatan kertas bergam atau pelekat yang berjalur atau bergulung dan label dan kertas dinding	-3.3	-13.9	5.3	3.7	-2.7	-1.8	0.3
	Industri lain	18.6	1.4	-3.4	5.9	3.4	7.0	-0.3
181 & 182	Percetakan, aktiviti perkhidmatan berkaitan percetakan dan penerbitan semula media rakaman	5.8	-1.9	-7.7	6.2	-0.3	-4.4	2.3
18110	Percetakan	5.2	-0.6	-8.0	6.2	-0.6	-5.1	2.6
18120	Aktiviti perkhidmatan berkaitan percetakan							
&		9.0	-8.4	-6.0	6.4	1.3	-0.9	0.5
18200	Penerbitan semula media rakaman							
192 (19201 & 19202)	Pembuatan produk petroleum bertapis	-0.03	-15.4	8.2	9.9	-10.6	-2.9	16.6
201	Pembuatan kimia asas, baja dan sebatian nitrogen, plastik dan getah sintetik dalam bentuk primer	5.2	-2.2	5.4	-2.8	-2.2	1.5	4.0
20111	Pembuatan gas perindustrian atau perubatan bukan organik dalam bentuk cecair atau mampat	14.3	1.0	2.7	2.9	18.5	-1.8	1.8
20112	Pembuatan kimia organik asas							
&		5.7	-2.4	9.5	-4.3	-2.2	1.8	1.1
20113	Pembuatan sebatian bukan organik							
20121	Pembuatan baja							
&		10.5	-5.6	0.7	-9.8	-0.3	2.9	11.2
20129	Pembuatan produk campuran nitrogen							
20131	Pembuatan plastik dalam bentuk primer	0.03	-1.6	1.9	1.3	-7.3	0.7	7.4
	Industri lain	4.9	1.7	-3.8	0.8	-4.3	5.1	0.3
202 & 203	Pembuatan produk kimia lain dan serat buatan manusia	4.5	-8.2	-4.8	8.6	-4.6	0.2	2.9
20210	Pembuatan racun perosak dan produk agrokimia lain	34.1	-3.4	-2.2	-4.8	33.9	-9.9	11.2
20221	Pembuatan cat, varnis dan penyadur dan mastik	8.6	-10.6	0.3	5.8	15.3	-18.7	2.9
20222	Pembuatan dakwat cetak	0.2	-12.6	-6.7	2.7	-7.6	-1.4	12.2
20231	Pembuatan sabun dan bahan pencuci, penyediaan							
&	membersih dan mengilat	2.2	-13.2	-6.1	4.8	-12.5	7.6	0.8
20232	Pembuatan pewangi dan penyediaan dandanan diri							
20291	Pembuatan plat fotografi, filem, sensitized paper dan other							
&	sensitized unexposed materials							
20292	Pembuatan dakwat menulis dan melukis	0.6	-0.9	-5.7	20.5	-10.4	5.0	-0.05
&								
20299	Pembuatan produk kimia lain t.t.t.l.							
	Industri lain	2.0	2.2	-4.1	-0.3	-0.5	-0.6	-0.5
210	Pembuatan produk farmaseutikal, kimia perubatan dan botani	-1.9	8.9	1.7	3.0	-10.1	0.2	-0.4
21001	Pembuatan bahan aktif ubat-ubatan untuk digunakan oleh bidang farmakologi dalam pembuatan ubat-ubatan	-2.6	8.7	-0.7	6.1	-10.3	-0.004	-0.4
	Industri lain	1.2	9.8	11.3	-8.2	-9.1	0.8	-0.6
221	Pembuatan produk getah	-6.2	15.3	4.9	-9.9	-6.1	-6.6	2.0
22111	Pembuatan tayar getah untuk kenderaan	-7.9	17.7	-1.4	-5.8	-1.0	-12.1	19.3
22112	Pembuatan bunga tayar yang boleh ditukar ganti dan tayar celup	5.1	7.2	-4.2	3.4	3.0	-7.6	24.3
22191	Pembuatan produk lain daripada getah asli atau sintetik,							
&	tidak divulkan, divulkan atau dikeraskan	4.5	5.1	1.4	-6.8	-0.3	0.5	5.2
22193	Pengilangan semula getah dan prosesan susu getah							
22192	Pembuatan sarung tangan getah	-12.9	32.4	11.2	-15.8	-11.0	-8.5	-1.7
22199	Pembuatan produk getah lain yang t.t.t.l.	1.9	-13.0	-7.7	6.0	-1.2	-5.6	-0.7
222	Pembuatan produk plastik	0.3	6.3	-6.3	0.8	-1.5	0.4	5.5
22201	Pembuatan produk plastik separa siap							
&		-4.7	7.6	-6.8	0.9	-5.4	4.7	1.8
22202	Pembuatan produk plastik siap							
22203	Pembuatan artikel plastik untuk pembungkusan barangan	2.9	14.0	-7.2	0.8	0.0	-6.6	21.6
22204	Pembuatan barangan plastik jurubina	5.3	1.4	-15.7	7.4	4.1	-3.8	8.7
22205	Pembuatan pinggan mangkuk, peralatan dapur dan barangan tandas daripada plastik	4.9	1.5	-1.3	2.1	0.3	0.2	5.0
22209	Pembuatan pelbagai produk plastik t.t.t.l.	3.1	2.1	-6.1	0.1	0.9	0.5	0.8
231 (23101 & 23102 & 23109)	Pembuatan kaca dan produk kaca	8.7	6.4	-1.9	13.4	2.5	0.1	1.8

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-0.8	0.1	-3.1	4.0	1.8	6.5	0.4	0.7	2.0	0.7		Manufacture of products of wood, cork, straw and plaiting materials
-3.1	1.3	-2.1	6.1	2.8	11.6	-0.3	-0.1	3.7	-5.5		Manufacture of veneer sheets and plywood
-1.8	8.2	-2.6	-2.2	1.6	7.7	1.4	7.6	-0.2	6.3		Manufacture of particle board and fibreboard
3.8	-3.8	-5.6	5.0	-1.3	0.2	0.8	-3.6	3.1	7.1		Manufacture of builders' carpentry
0.2	-3.5	-3.0	2.1	3.2	-1.2	1.1	3.4	-2.7	7.9		Other industry
-0.8	-2.5	0.0	-2.5	1.1	3.8	0.9	1.1	0.2	-0.05		Manufacture of paper and paper products
-3.2	3.9	1.4	1.1	-1.4	5.4	7.2	4.5	-5.3	1.3		Manufacture of pulp, paper and paperboard
-1.5	-0.1	0.9	-8.8	5.0	2.5	0.2	0.3	-0.3	2.0		Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
-0.5	4.2	-0.4	0.8	-1.3	-0.6	-0.8	0.4	-0.3	-3.9		Manufacture of envelopes and letter-card
10.2	-13.3	4.6	-1.3	-2.7	5.9	-0.3	-0.6	-0.04	-4.0		Manufacture of household and personal hygiene paper
-9.2	-5.2	-4.1	9.3	-2.5	7.8	-0.9	0.3	0.5	-6.4		Manufacture of gummed or adhesive paper in strips or rolls and labels and wall paper
0.2	1.9	-6.1	-1.0	2.0	-0.8	0.2	3.3	9.9	6.0		Other industry
-1.6	1.8	-4.3	-3.9	0.4	-5.8	3.0	4.4	12.4	-1.2		Printing, service activities related to printing and reproduction of recorded media
-0.9	2.5	-4.0	-4.2	-0.01	-6.4	3.2	4.8	12.8	-2.3		Printing
-5.3	-2.0	-5.8	-2.1	2.4	-2.8	2.2	2.7	10.3	4.3		Service activities related to printing
											Reproduction of recorded media
-24.9	-0.8	10.5	-2.6	-0.6	14.3	-0.6	-4.8	15.1	-10.8		Manufacture of refined petroleum products
-5.8	-4.6	11.9	-0.2	-0.4	-0.1	-3.5	-2.1	7.2	-2.4		Manufacture of basic chemicals, fertilizer and nitrogen compounds, plastics and synthetic rubber in primary forms
-0.2	-2.4	6.8	-1.6	2.4	-2.5	0.5	4.8	0.1	20.6		Manufacture of liquefied or compressed inorganic industrial or medical gases
-4.2	-8.5	20.5	0.2	-2.0	3.1	-5.7	-3.6	8.0	0.1		Manufacture of basic organic chemicals
											Manufacture of inorganic compounds
-14.7	-0.4	8.0	-2.0	2.3	-11.0	-2.8	-5.3	10.2	-9.9		Manufacture of fertilizers
-6.8	-0.3	2.3	0.7	0.2	-0.9	-0.7	0.2	7.0	-11.3		Manufacture of associated nitrogen products
0.8	-0.1	-2.3	-4.9	4.1	0.1	-0.3	-2.7	4.6	5.7		Manufacture of plastics in primary forms
											Other industry
-8.2	-2.0	-1.9	-2.8	-1.9	3.5	1.3	2.0	11.9	-4.5		Manufacture of other chemical products and man-made fibres
-6.1	0.4	-2.6	2.1	-5.8	3.9	-6.6	5.7	-6.8	21.6		Manufacture of pesticides and other agrochemical products
-2.6	-2.9	-3.8	6.2	-5.6	5.1	0.3	1.0	10.1	14.8		Manufacture of paints, varnishes and similar coatings ink and
-10.4	-12.3	-2.9	0.2	-1.0	0.3	-0.4	3.5	2.9	-7.4		Manufacture of printing ink
-15.8	1.4	-2.7	-5.4	-2.3	6.8	-4.6	0.1	18.1	-10.7		Manufacture of soap and detergents, cleaning and polishing preparations
											Manufacture of perfumes and toilet preparations
											Manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
-0.9	-2.5	0.2	-5.9	1.0	0.8	11.6	2.8	15.1	-10.8		Manufacture of writing and drawing ink
											Manufacture of other chemical products n.e.c.
-0.4	6.8	-3.7	-4.7	3.9	-4.8	0.0	3.8	-2.4	5.7		Other industry
12.6	-4.7	0.2	1.5	3.4	-1.7	1.7	-5.6	15.9	-10.3		Manufacture of pharmaceuticals, medicinal chemical and botanical products
12.5	-5.3	1.3	-2.1	4.5	-1.6	3.5	-5.7	18.6	-12.5		Manufacture of medicinal active substances to be used for their pharmacological properties in the manufacture of medicaments
13.3	-2.3	-4.4	16.7	-0.3	-2.2	-5.1	-5.1	5.4	-0.1		Other industry
2.8	10.5	17.0	-5.8	-0.9	-5.5	-3.6	-6.0	4.5	-4.9		Manufacture of rubber products
0.1	15.5	-2.5	-0.8	-4.3	-1.8	-2.4	-2.9	3.5	-5.6		Manufacture of rubber tyres for vehicles
-0.4	-1.9	-8.3	-1.8	3.8	4.8	1.9	-2.6	-3.5	3.1		Manufacture of interchangeable tyre treads and retreading rubber tyres
0.4	2.5	-1.7	1.4	-0.2	1.6	-8.0	-4.1	9.8	-3.1		Manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened
5.2	26.5	32.1	-9.2	-0.7	-10.0	-3.9	-9.2	1.5	-6.2		Rubber remilling and latex processing
1.2	-18.2	0.8	-1.5	-0.7	2.0	0.6	1.2	10.6	-3.7		Manufacture of rubber gloves
											Manufacture of other rubber products n.e.c.
3.3	2.3	-6.7	-4.2	2.5	-0.03	0.3	-0.8	0.8	-2.4		Manufacture of plastics products
5.1	4.9	-10.4	-4.9	6.5	-1.1	0.2	0.7	-3.2	-4.8		Manufacture of semi-manufactures of plastic products
											Manufacture of finished plastic products
3.5	1.3	-4.9	-4.8	1.6	-1.6	0.9	-1.0	3.2	-3.1		Manufacture of plastic articles for the packing of goods
0.5	0.5	-10.6	-8.9	-2.6	4.5	1.2	2.7	6.3	0.7		Manufacture of builders' plastics ware
-1.2	1.9	-5.5	-3.7	8.3	0.9	0.6	-5.1	5.4	-1.5		Manufacture of plastic tableware, kitchenware and toilet articles
2.4	0.5	-4.1	-3.0	-1.7	1.7	-0.2	-1.4	2.3	0.1		Manufacture of diverse plastic products n.e.c.
2.7	4.6	-2.0	-2.6	-6.4	15.8	3.4	-1.8	9.5	-0.3		Manufacture of glass and glass products

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
239	Pembuatan pengeluaran galian bukan logam t.t.t.l.	-1.0	-0.2	-3.3	4.4	-1.8	-2.6	3.6
23911	Pembuatan mortar refraktori dan konkrit							
&		-6.0	-1.0	-1.5	-8.0	-2.2	-8.9	5.4
23921	Pembuatan seramik bukan refraktori							
23930	Pembuatan produk porselin dan seramik lain	-1.9	-7.3	-1.8	6.0	5.0	-11.7	2.4
23941	Pembuatan simen hidrolik	0.05	6.0	-11.0	3.8	-11.0	-5.2	8.3
23951	Pembuatan konkrit dan mortar siap bancuh dan banchuan kering	2.7	0.8	-1.6	4.6	0.5	-3.6	8.1
23952	Pembuatan konkrit pratuangan, simen atau artikel batu							
&	buatan yang digunakan dalam pembinaan;							
23953	Pembuatan komponen struktur pasang siap untuk	-1.3	-1.6	-2.4	3.5	0.4	2.5	-0.1
&	bangunan atau kejuruteraan awam dari simen, batu atau							
23959	konkrit buatan							
23959	Pembuatan artikel konkrit, simen dan plaster lain t.t.t.l.							
23990	Pembuatan produk mineral bukan logam lain t.t.t.l.	-2.0	-4.5	0.001	14.9	-5.3	-3.0	-0.9
	Industri lain	0.1	8.7	-9.1	5.8	-2.9	-4.2	9.9
241 (24101 & 24102 & 24103 & 24104 & 24109)	Pembuatan besi dan keluli asas	5.0	-8.5	-2.8	12.8	-0.2	-3.0	1.8
242 (24201 & 24202 & 24209)	Pembuatan logam asas berharga dan logam bukan ferus lain	4.3	-0.6	-3.1	8.2	-4.8	-1.7	4.1
243	Pengacuan logam	3.1	-5.6	-1.1	5.9	-1.4	-0.02	4.3
251 & 252	Pembuatan produk struktur logam, tangki, takungan, penjana wap, senjata dan peluru	-0.3	-7.0	-0.3	5.2	-0.6	-1.5	0.4
25113	Pembuatan pintu, tingkap dan bingkai, penutup tingkap							
&	dan pintu pagar daripada logam	-5.9	-9.9	-4.1	4.6	-3.1	-5.8	0.1
25119	Pembuatan produk struktur logam lain							
25120	Pembuatan tangki, takungan dan kontena daripada	4.8	-1.9	10.0	6.5	-1.0	6.5	-0.2
	logam							
	Industri lain	16.5	-6.4	-10.4	3.6	14.1	-0.8	3.1
259	Pembuatan lain-lain produk yang direka daripada logam; aktiviti perkhidmatan kerja logam	2.1	-5.6	0.3	9.8	-0.7	-2.2	-3.1
25910	Tempaan, tekanan, hentakan dan bentuk gelekkan logam;	3.2	-2.7	-0.9	5.2	-0.4	-5.5	-1.8
	serbuk metalurgi							
25920	Rawatan dan penyalutan logam; menggunakan mesin	5.1	-3.5	-8.1	10.1	-3.7	1.1	-3.0
25991	Pembuatan tin untuk produk makanan dan minuman, tiub dan kotak boleh dilipat	-3.8	-9.8	4.6	18.9	-4.1	-0.2	-12.3
25992	Pembuatan kabel, plaited bands (jalur/pita berpintal) dan							
&	artikel seumpamanya daripada logam	5.2	-8.4	10.1	18.9	1.1	2.0	-1.0
25993	Pembuatan bolt, skru, nat dan produk uliran							
	seumpamanya							
25994	Pembuatan barangan rumah daripada logam	6.8	-3.1	-11.6	-3.3	6.3	3.9	0.9
25999	Pembuatan produk lain yang direka daripada logam t.t.t.l.	4.4	-4.0	-3.0	3.6	1.5	-1.1	-2.8
	Industri lain	-13.0	-8.3	-0.7	1.9	-4.3	-18.6	0.0
261	Pembuatan komponen dan papan elektronik	7.2	-3.2	-4.8	9.1	-2.2	6.8	-7.9
26101	Pembuatan diod, transistor dan alatan semikonduktor							
&	yang seumpamanya	7.7	0.2	-4.0	6.9	-2.0	6.2	-4.5
26102	Pembuatan litar elektronik bersepadu dengan							
	pasangan mikro							
26103	Pembuatan kapasitor dan perintang elektrik							
&								
26104	Pembuatan papan litar bercetak	8.1	-9.5	-6.2	14.8	-2.1	9.4	-14.9
&								
26105	Pembuatan komponen paparan							
26109	Pembuatan komponen lain untuk aplikasi elektronik	-6.0	-8.2	-7.9	4.4	-4.5	-3.6	-4.2
262 (26201 & 26202)	Pembuatan komputer dan kelengkapan peranti	7.1	-6.7	3.5	8.5	-2.7	-3.4	0.5
263/ 26300	Pembuatan peralatan komunikasi	-1.5	12.5	-6.9	14.3	12.4	-9.4	10.3
264/ 26400	Pembuatan peralatan elektronik pengguna	-9.2	-3.2	1.1	13.7	-1.9	-19.2	5.0
265	Pembuatan kelengkapan mengukur, menguji, memandu arah dan kawalan; jam tangan dan jam	-0.3	-1.9	2.9	13.7	-5.9	-5.7	3.1
26511	Pembuatan kelengkapan mengukur, menguji, memandu							
&	arah dan kawalan	0.5	-2.4	3.4	13.9	-4.7	-6.6	3.6
26512	Pembuatan kelengkapan kawalan proses perindustrian							
26520	Pembuatan jam tangan dan jam dan bahagiannya	-7.4	2.9	-1.1	11.8	-16.6	4.5	-0.9
266/ 26600	Pembuatan peralatan penyinaran, perubatan elektro dan elektroterapeutik	20.4	15.0	-1.1	-7.8	18.1	5.0	18.1

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-0.3	1.1	-6.1	-0.3	0.4	1.8	0.3	2.5	2.8	-2.2		Manufacture of non-metallic mineral products
											Manufacture of refractory mortars and concretes
0.6	0.0	-5.9	2.0	0.6	0.7	-0.05	-14.8	4.9	-12.5		Manufacture of non-refractory ceramic
-8.8	9.0	-4.1	-5.3	4.2	2.5	1.8	-2.7	8.8	-0.3		Manufacture of other porcelain and ceramic products
5.0	-0.5	-6.6	-7.2	-0.5	2.7	0.03	0.2	5.8	2.4		Manufacture of hydraulic cement
-4.4	3.3	-2.3	-0.4	-1.7	1.1	-0.1	2.6	8.2	-3.6		Manufacture of ready-mix and dry-mix concrete and mortars
											Manufacture of precast concrete, cement or artificial stone articles for use in construction
-0.5	2.0	-9.5	3.6	-0.5	1.2	-0.2	9.3	-8.9	3.6		Manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone
											Manufacture of other articles of concrete, cement and plaster n.e.c.
-7.8	9.5	-2.7	-4.3	2.6	4.6	2.2	2.0	20.0	-10.5		Manufacture of other non-metallic mineral products n.e.c.
16.9	-14.3	-6.5	-2.7	3.8	2.0	0.3	1.4	5.7	-0.7		Other industry
-5.5	-4.1	-2.0	-4.4	2.0	9.4	-0.1	2.1	13.1	-1.8		Manufacture of basic iron and steel
-4.6	5.0	-3.6	-3.3	-1.1	5.6	2.8	-1.8	9.7	-3.3		Manufacture of basic precious and other non-ferrous metals
-6.5	-0.6	-4.4	-1.4	2.7	5.2	0.7	-0.01	2.5	-0.9		Casting of metals
-3.9	-0.4	-8.1	5.6	-2.9	6.3	1.3	0.3	1.6	1.6		Manufacture of structural metal products, tanks, reservoirs , steam generators , weapons and ammunition
											Manufacture of metal doors, windows and their frames, shutters and gates
-3.1	-1.2	-13.1	5.4	-1.7	5.2	0.6	0.2	3.1	1.4		Manufacture of other structural metal products
											Manufacture of tanks, reservoirs and containers of metal
-4.9	1.7	0.2	9.7	-4.3	7.8	2.5	0.6	-0.4	0.7		Other industry
-4.3	-2.3	-7.2	-4.6	-3.7	6.5	0.6	-0.4	1.0	5.1		Other industry
-2.7	1.1	-2.4	-1.9	1.1	8.6	0.6	1.0	7.0	-2.2		Manufacture of other fabricated metal products; metal working service activities
0.1	1.1	-1.2	-1.2	0.7	0.8	0.7	-0.3	11.6	-7.6		Forging, pressing, stamping and roll-forming of metal; powder metallurgy
-3.7	4.2	-2.6	-7.9	-0.9	2.3	1.9	3.7	12.4	-5.3		Treatment and coating of metals; machining
0.3	-2.5	0.2	-2.4	5.4	12.2	1.7	8.7	2.4	-8.8		Manufacture of tins and cans for food products, collapsible tubes and boxes
											Manufacture of metal cable, plaited bands and similar articles
-10.0	3.5	-1.8	-0.9	1.2	30.6	-0.7	-0.2	2.4	2.0		Manufacture of bolts, screws, nuts and similar threaded products
-0.3	-0.1	-13.4	1.6	-3.9	-4.6	-0.2	1.1	2.0	-0.1		Manufacture of metal household articles
-0.04	-0.6	-3.9	-1.9	2.2	0.9	0.4	-1.4	8.6	3.0		Manufacture of any other fabricated metal products n.e.c.
0.1	-0.9	-2.7	4.4	-3.4	-1.6	1.6	0.7	6.4	-2.9		Other industry
-0.5	0.03	1.7	-6.3	0.1	1.3	1.9	1.3	15.4	-5.9		Manufacture of electronic components and boards
											Manufacture of diodes, transistors and similar semiconductor devices
-1.0	0.1	6.9	-9.5	2.5	-0.6	0.3	1.7	14.8	-7.4		Manufacture of electronic integrated circuits micro assemblies
											Manufacture of electrical capacitors and resistors
0.8	-0.2	-7.8	0.9	-5.0	5.2	5.8	0.8	18.2	-4.1		Manufacture of printed circuit boards
											Manufacture of display components
-1.1	-0.04	-9.9	-2.1	-1.4	5.7	0.3	-0.6	3.8	7.0		Manufacture of other components for electronic applications
-6.0	-0.1	0.5	-4.2	4.2	14.0	0.2	-10.9	18.2	-7.3		Manufacture of computers and peripheral equipment
19.5	-15.8	6.5	-8.5	4.4	2.1	0.5	17.9	-3.2	3.2		Manufacture of communication equipment
1.9	0.3	-3.2	-5.9	10.1	8.0	4.9	-2.1	4.1	8.2		Manufacture of consumer electronics
-0.3	0.2	-5.3	2.4	5.5	1.7	0.6	6.7	15.3	-6.1		Manufacture of measuring, testing, navigating and control equipment; watches and clocks
											Manufacture of measuring, testing, navigating and control equipment
-0.5	0.1	-5.9	2.9	6.0	1.8	0.7	6.5	15.1	-6.4		Manufacture of industrial process control equipment
1.0	1.4	0.2	-2.3	0.6	0.8	-0.7	8.4	17.2	-3.0		Manufacture of watches and clocks and parts
-1.3	0.6	7.9	-3.8	-2.4	-2.2	-0.4	0.9	-17.4	16.8		Manufacture of irradiation, electromedical and electrotherapeutic equipment

Kod Kumpulan Group code	Keterangan Kumpulan/Tempoh	2021						
		Q1	Q2	Q3	Q4	Jan.	Feb.	Mac
267 (26701 & 26702) & 268 (26800)	Pembuatan peralatan optikal, kelengkapan fotografi, media magnetik dan optikal	5.1	-7.8	-2.7	9.6	-0.4	-0.9	3.2
271	Pembuatan motor elektrik, penjana, transformer dan perkakasan pengagihan dan pengawalan elektrik	-0.6	-13.2	9.3	7.6	-3.7	-3.2	-7.1
	27101 Pembuatan motor elektrik, penjana dan transformer	-6.7	8.6	9.9	2.0	-1.8	-8.5	-1.9
	27102 Pembuatan perkakasan pengagihan dan pengawalan	2.1	-22.3	9.0	10.9	-4.5	-1.0	-9.1
272/ 27200	Pembuatan bateri dan akumulator	-11.3	8.3	14.1	-3.2	0.1	-17.8	-0.1
273	Pembuatan pendawaian dan peranti pendawaian	3.0	-2.0	4.2	9.1	-2.6	0.4	-9.6
	27310 Pembuatan kabel gentian optikal	-31.3	11.8	30.0	45.3	-38.3	5.4	-1.1
	27320 Pembuatan wayar dan kabel elektronik dan elektrik lain	5.8	-2.8	2.3	6.8	0.1	0.01	-10.2
	27330 Pembuatan alatan pendawaian pembawa dan bukan pembawa arus untuk litar elektrik (tanpa mengira jenis bahan)	2.4	1.8	11.7	-1.8	2.4	4.0	-4.1
274/ 27400	Pembuatan kelengkapan pencahayaan elektrik	21.5	12.7	16.3	1.0	22.1	-7.0	-0.4
275/ 27500	Pembuatan perkakasan domestik	-0.3	-17.9	-13.9	-9.2	-3.8	-0.01	0.1
279/ 27900	Pembuatan kelengkapan elektrik lain	-5.3	2.5	2.0	13.9	-3.0	-2.2	-7.0
281 & 282	Pembuatan jentera kegunaan umum dan kegunaan khas	1.6	-6.4	-0.7	7.8	-3.0	-0.01	-6.9
	28120 & 28130 Pembuatan alat-alat kuasa bendalir	-9.8	-6.8	-0.1	11.2	-23.1	-0.3	-0.1
	28180 & 28220 Pembuatan alatan tangan yang menggunakan kuasa dilengkapkan dengan motor elektrik atau bukan motor elektrik atau pneumatik	4.6	-9.2	3.0	13.3	0.4	-2.5	-12.5
	28192 Pembuatan mesin penyaman udara, termasuk untuk kenderaan bermotor	-0.2	-4.0	4.4	-1.2	-1.5	-0.6	-0.7
	28290 Pembuatan lain-lain mesin bertujuan khas t.t.t.l. Industri lain	5.3 2.2	-5.4 -6.1	-6.0 -2.9	11.5 6.8	-0.8 -1.3	-0.5 1.7	-8.2 -7.2
291 (29101 & 29102)	Pembuatan kenderaan bermotor	1.8	1.5	-3.7	14.2	-8.6	2.9	-8.4
292/ 29200	Pembuatan kerangka (coachwork) untuk kenderaan bermotor; pembuatan treler dan semi treler	4.4	7.3	-0.02	6.0	-2.9	0.4	13.5
293/ 29300	Pembuatan alat ganti dan aksesori untuk kenderaan bermotor	-1.7	-2.9	-8.6	8.8	-8.4	2.4	-3.5
301 (30110 & 30120)	Pembinaan kapal dan bot	8.4	-10.3	-8.6	2.7	-0.1	2.2	19.9
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.	7.5	-1.5	-5.4	5.2	3.8	2.3	2.4
	30910 Pembuatan motosikal	13.5	1.7	-4.9	7.8	7.5	2.8	7.4
	30920 Pembuatan basikal dan invalid carriages	1.2	-7.9	-7.7	-4.3	0.5	-1.1	-3.3
	Industri lain	-0.3	-4.2	-4.9	5.2	-1.6	3.6	-4.8
310	Pembuatan perabot	0.9	-6.3	1.4	9.7	0.9	-0.5	-3.1
	31001 Pembuatan perabot kayu dan rotan	-0.5	-6.3	3.2	11.2	-0.2	-0.5	-4.0
	Industri lain	5.4	-6.2	-4.1	4.6	4.5	-0.5	-0.3
321 (32110 & 32120)	Pembuatan barang kemas, bijouterie dan artikel berkaitan	2.1	-9.1	-4.8	16.6	-5.2	-1.1	-5.1
322, 325 & 329	Pembuatan instrumen muzik, peralatan dan bekalan perubatan dan pergigian dan pembuatan lain t.t.t.l.	5.3	-3.2	-0.3	3.8	1.2	1.4	-1.6
	32901 Pembuatan alat tulis	5.5	-1.4	0.3	4.2	2.8	-0.3	0.6
	Industri lain	5.2	-3.6	-0.4	3.7	0.7	1.8	-2.2
323/ 32300	Pembuatan barangan sukan	5.2	-7.2	-0.3	6.4	4.9	-1.3	-0.7
324/ 32400	Pembuatan permainan dan mainan	-23.3	7.2	43.5	18.7	-36.3	1.7	-1.1
331 & 332	Pembaikan pemasangan produk logam, jentera, kelengkapan dan pemasangan jentera perindustrian dan kelengkapan	2.0	-4.0	-3.5	10.8	0.5	-0.7	1.4
	33150 Pembaikan dan penyelenggaraan kelengkapan pengangkutan kecuali motosikal dan basikal	3.1	-8.3	-2.0	4.5	1.2	-1.4	1.3
	Industri lain	1.7	-2.8	-4.0	12.6	0.3	-0.5	1.5
Jumlah Pembuatan		2.0	-1.9	-1.2	5.8	-2.4	-0.6	0.03

2021										2022	Group Description/Period
Apr.	Mei	Jun	Jul.	Ogo.	Sep.	Okt.	Nov.	Dis.	Jan.		
-8.2	-2.2	0.7	-5.5	3.3	3.1	-0.1	2.6	13.7	-5.1		Manufacture of optical instruments, photographic equipment, magnetic and optical media
-15.7	12.1	3.6	-0.2	3.2	3.0	0.4	1.9	7.8	-5.5		Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus
5.2	7.2	8.6	-0.2	2.8	0.3	-0.2	-0.1	3.4	-3.0		Manufacture of electric motors, generators and transformers
-24.7	15.1	0.8	-0.2	3.5	4.7	0.8	3.1	10.3	-6.8		Manufacture of electricity distribution and control apparatus
1.2	19.0	5.5	-0.1	9.7	-5.4	-0.2	-3.5	0.04	2.5		Manufacture of batteries and accumulators
0.3	5.7	2.0	-1.9	1.8	5.2	1.7	-2.9	15.8	-6.0		Manufacture of wiring and wiring devices
-2.0	15.3	7.2	-3.8	5.0	57.7	-0.2	5.2	14.4	-33.6		Manufacture of fibre optic cables
0.9	4.9	1.0	-1.7	1.7	2.1	1.9	-3.9	16.8	-3.5		Manufacture of other electronic and electric wires and cables
-10.6	12.7	19.2	-2.6	0.004	-3.8	0.3	2.4	-3.4	7.0		Manufacture of current-carrying and non current-carrying wiring devices for electrical circuits regardless of material
3.7	6.2	21.3	-0.1	1.7	-0.7	-0.9	-1.6	8.8	8.1		Manufacture of electric lighting equipment
-27.1	22.7	-6.4	-6.2	-9.0	-13.4	1.9	-0.9	6.9	3.7		Manufacture of domestic appliances
9.9	0.2	-4.0	-0.4	3.8	7.6	-0.6	0.4	22.8	-7.2		Manufacture of other electrical equipment
-0.8	-0.1	-2.5	-1.2	2.5	1.6	1.4	1.7	9.4	-2.3		Manufacture of general-purpose and special-purpose machinery
-3.3	-4.6	-1.4	-0.2	3.4	1.0	-1.3	1.5	28.7	-19.1		Manufacture of fluid power equipment
											Manufacture of other pumps, compressors, taps and valves
											Manufacture of power-driven hand tools with self-contained electric or non-electric motor or pneumatic drives
1.0	-0.9	-0.1	0.04	0.4	9.3	0.2	5.9	7.5	-13.5		Manufacture of metal-forming machinery and machine tools
-8.8	9.0	-0.04	-4.0	12.2	-6.1	-0.6	1.2	-2.7	0.8		Manufacture of air-conditioning machines, including for motor vehicles
7.7	-9.1	-2.3	-1.4	-0.5	1.2	2.8	0.0	23.3	-3.9		Manufacture of other special-purpose machinery
-0.8	0.8	-4.7	-0.8	0.6	1.2	3.0	0.2	7.5	7.2		Other industry
8.0	0.3	-4.1	-3.8	2.2	4.2	3.6	3.4	12.4	-8.0		Manufacture of motor vehicles
-0.1	0.1	-4.0	-0.3	0.5	8.2	0.4	-1.1	2.6	-6.0		Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
4.7	-7.3	-2.9	-7.3	1.7	6.3	0.8	0.8	7.9	-8.1		Manufacture of parts and accessories for motor vehicles
-16.0	-7.6	-2.3	-3.4	-2.2	0.8	0.6	1.6	3.7	-0.7		Building of ships and boats
-0.2	-0.8	-9.1	-0.4	-0.9	6.9	1.3	0.9	-2.6	3.5		Manufacture of railway locomotives, rolling stock, air and spacecraft, related machinery, military fighting vehicles and transport equipment n.e.c
-0.2	-2.2	-6.7	0.6	-4.7	9.3	2.1	3.3	-2.9	3.0		Manufacture of motorcycles
0.2	0.1	-17.3	-7.3	21.7	-2.9	-0.2	-8.9	-7.0	9.2		Manufacture of bicycles and invalid carriages
-0.4	2.1	-9.4	1.7	-5.1	8.3	0.3	1.4	0.9	1.7		Other industry
-3.3	1.1	-4.7	-1.2	1.0	14.4	-0.7	0.1	2.4	2.1		Manufacture of furniture
-3.4	1.5	-3.6	-0.9	0.6	17.0	-0.6	-0.4	3.4	2.5		Manufacture of wooden and cane furniture
-3.0	-0.2	-8.2	-2.0	2.5	6.2	-1.0	1.6	-1.1	0.6		Other industry
-2.7	-1.6	-5.5	-1.3	-4.0	10.7	0.7	1.3	26.5	-8.6		Manufacture of jewellery, bijouterie and related articles
-2.4	-0.3	0.2	-0.4	-0.3	1.2	0.7	1.1	5.0	-1.6		Manufacture of musical instruments, medical and dental instruments and supplies and other manufacturing n.e.c.
-0.3	0.5	-5.1	2.7	0.9	1.1	2.4	-0.2	2.4	0.1		Manufacture of stationery
-2.9	-0.5	1.6	-1.3	-0.7	1.2	0.2	1.4	5.7	-2.0		Other industry
-5.3	-0.2	-3.3	-4.1	5.6	7.7	0.9	-4.2	4.6	0.4		Manufacture of sports goods
-1.3	-0.03	26.6	8.3	19.6	2.3	2.8	1.4	19.5	-22.7		Manufacture of games and toys
1.1	-5.7	-6.0	1.9	0.2	1.7	6.8	4.2	-0.9	0.2		Repair of fabricated metal products, machinery and equipment and installation of industrial machinery and equipment
-3.5	-5.5	-5.0	3.5	-1.2	2.5	-0.6	7.7	-3.5	0.3		Repair and maintenance of transport equipment except motorcycles and bicycles
2.4	-5.8	-6.3	1.5	0.6	1.5	8.9	3.4	-0.2	0.1		Other industry
-1.7	0.4	-0.7	-2.2	0.5	3.4	0.6	0.2	7.8	-3.2		Total Manufacturing

Jadual 2 : Pengeluaran Produk Utama dalam Industri Pembuatan yang Terpilih
Table : Production of Major Products in Selected Manufacturing Industries

Keterangan Produk Product Description	Unit Kuantiti Quantity Unit	2017	2018	2019	2020	2021		
							Jan.	Feb.
Ikan tin Canned fish	Tan Tonne	11,001	9,743	7,245	6,970	6,224	564	602
Ikan segar sejuk beku Frozen fish	Tan Tonne	16,344	16,671	17,304	16,658	15,032	1,198	1,381
Bebola ikan Fish ball	Tan Tonne	17,860	15,987	13,093	6,190	6,716	480	413
Sotong sejuk beku Frozen cuttle fish/squid	Tan Tonne	8,858	4,749	5,908	6,679	6,047	556	451
Udang geragau/udang sejuk beku Frozen shrimps/prawns	Tan Tonne	20,233	22,573	22,817	19,460	16,140	1,453	1,453
Jem (semua jenis) Jams (all types)	Tan Tonne	11,423	10,488	8,335	7,376	8,082	720	862
Minyak kelapa mentah Coconut (copra) oil and its fraction crude oil	Tan Tonne	14,307	27,643	21,220	15,593	16,721	1,528	1,240
Minyak kelapa, ditapis Coconut oil, refined	Tan Tonne	42,113	61,944	78,779	49,268	61,883	4,408	3,004
Lemak doh/shortening Dough fats/shortening	Tan Tonne	206,366	269,057	219,212	191,050	184,620	15,516	13,238
Marjerin Margerine	Tan Tonne	77,824	62,129	60,181	58,569	61,332	4,969	4,474
Minyak masak campuran Blended/deodorised cooking oil	Tan Tonne	547,656	558,317	574,483	423,403	406,788	23,110	29,151
Susu pekat manis Sweetened condensed milk	Tan Tonne	138,199	147,746	209,591	321,036	405,676	33,691	27,158
Minuman susu Milk drinks	Liter ('000) Litres ('000)	140,303	132,687	95,096	93,369	83,078	6,644	5,803
Beras Whole rice	Tan Tonne	631,952	665,032	629,970	679,152	710,685	50,259	63,954
Beras hancur Broken rice	Tan Tonne	50,279	65,664	64,415	65,748	73,238	5,674	6,558
Tepung gandum Wheat flour	Tan Tonne	998,163	949,149	901,834	862,885	993,335	78,053	80,391
Roti dan kek Bread and cakes	Tan Tonne	365,620	388,984	407,173	411,561	479,951	40,753	49,501
Mee dan bihun Mee and bihun	Tan Tonne	233,567	222,631	221,766	234,890	249,484	23,200	22,475
Sos dan bahan perasa Sos and flavoring ingredients	Tan Tonne	106,335	89,803	96,079	98,393	80,711	9,056	8,199
Kelapa kering Desiccated coconuts	Tan Tonne	5,655	3,828	3,133	3,208	4,259	255	265
Makanan ayam itik campuran Mixed poultry feed	Tan Tonne	2,363,180	2,339,642	2,347,398	2,043,813	1,958,720	177,342	161,916
Hidangan ikan Fish meals	Tan Tonne	48,941	56,141	57,864	82,677	119,236	8,801	9,052
Biskut Biscuits	Tan Tonne	267,190	255,471	164,524	173,019	165,062	14,749	15,386
Gula bertapis Refined sugar	Tan Tonne	1,682,363	1,637,779	1,555,828	1,440,768	1,571,056	123,102	122,634
Minuman manis berkarbonat Sweet beverages (carbonated)	Liter ('000) Litres ('000)	241,595	156,123	216,319	207,249	219,416	20,149	18,908

2021										2022
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sept.	Okt.	Nov.	Dis.	Jan.
661	501	501	478	450	449	380	495	549	595	575
1,104	1,105	1,152	1,199	1,344	1,185	1,156	1,506	1,355	1,347	1,054
402	491	570	629	656	658	657	665	548	548	530
484	519	594	654	556	478	431	518	422	384	399
1,581	1,513	1,403	1,631	994	985	1,034	1,226	1,382	1,485	1,473
858	618	628	772	743	582	584	580	568	566	709
1,182	980	1,296	1,147	1,372	1,620	1,561	1,777	1,762	1,256	1,455
3,135	3,742	5,349	5,231	5,196	5,117	6,667	6,828	6,623	6,583	6,412
12,013	12,311	14,975	14,971	16,215	14,415	17,202	18,285	18,181	17,298	19,552
4,026	4,136	5,135	5,271	5,437	5,007	5,450	6,029	5,815	5,584	6,406
34,721	32,956	30,804	39,649	33,599	42,911	39,153	38,696	31,900	30,138	29,780
25,988	29,684	29,840	38,395	39,211	39,199	34,320	35,355	35,714	37,121	36,651
5,553	6,597	6,508	7,143	7,403	7,795	7,904	7,365	7,090	7,274	6,577
65,041	69,957	53,993	44,906	40,858	54,034	78,126	73,653	58,835	57,068	62,719
7,223	6,470	6,888	5,950	6,552	6,125	6,440	5,228	4,811	5,320	6,633
85,606	82,108	80,328	81,302	83,198	85,373	83,646	83,601	86,148	83,581	76,997
50,528	47,480	39,950	37,072	35,575	36,555	36,176	35,341	35,132	35,888	40,182
18,788	19,238	17,767	20,936	19,722	20,466	22,715	21,686	22,043	20,449	25,191
7,372	5,677	5,852	6,555	6,003	6,077	5,637	7,113	6,917	6,252	7,293
304	304	295	340	368	404	475	494	396	360	340
158,123	159,810	150,709	135,194	161,657	173,813	151,381	149,331	181,451	197,992	189,039
9,308	9,542	7,030	8,995	9,529	10,801	9,247	12,053	13,362	11,516	11,589
13,001	14,213	12,352	12,730	10,816	12,015	14,023	16,702	16,272	12,803	12,985
161,649	171,049	123,222	115,493	111,451	115,574	118,908	120,119	142,133	145,723	133,586
17,921	21,952	21,624	19,336	18,022	19,238	17,423	13,157	13,632	18,053	20,938

Jadual 2 : Pengeluaran Produk Utama dalam Industri Pembuatan yang Terpilih
Table : Production of Major Products in Selected Manufacturing Industries

Keterangan Produk Product Description	Unit Kuantiti Quantity Unit	2017	2018	2019	2020	2021		
							Jan.	Feb.
Minuman manis tidak berkarbonat <i>Sweet beverages (non-carbonated)</i>	Liter ('000) <i>Litres ('000)</i>	2,240,658	2,835,044	3,113,870	2,799,877	2,218,416	232,259	228,958
Air mineral dan minuman <i>Mineral and drinking water</i>	Liter ('000) <i>Litres ('000)</i>	696,384	540,192	583,031	618,790	612,345	50,777	55,005
Kain kapas <i>Cotton cloth</i>	Meter ('000) <i>Metres ('000)</i>	166,566	150,618	126,941	84,100	72,734	7,043	6,716
Seluar lelaki <i>Pants, males</i>	Bilangan ('000) <i>Number ('000)</i>	11,705	10,997	10,245	8,304	6,035	608	609
Kemeja lelaki <i>Shirts, males</i>	Bilangan ('000) <i>Number ('000)</i>	18,065	20,491	16,859	13,937	13,569	1,354	1,138
Blaus <i>Blouses</i>	Bilangan ('000) <i>Number ('000)</i>	16,147	16,824	10,630	6,663	4,709	379	395
Pakaian perempuan <i>Dresses</i>	Bilangan ('000) <i>Number ('000)</i>	4,526	5,332	4,649	3,704	3,150	304	309
Kasut getah (semua jenis) <i>Rubber footwear (all types)</i>	Pasang ('000) <i>Pairs ('000)</i>	5,765	5,173	3,111	2,185	2,045	166	167
Kiln kayu kering <i>Kiln dried timber</i>	Tan <i>Tonne</i>	114,502	103,333	109,904	130,342	127,086	13,912	14,524
Kayu gergaji <i>Rubberwood (sawn)</i>	Tan <i>Tonne</i>	102,052	107,395	122,043	145,231	139,692	12,821	15,159
Kepingan venir <i>Veneer sheets</i>	Meter Padu <i>Cubic metre</i>	442,511	507,664	1,026,098	581,444	394,056	39,520	39,226
Papan gentian berkepadatan sederhana <i>Medium density fibreboard</i>	Meter Padu <i>Cubic metre</i>	1,461,672	4,424,935	3,753,461	3,101,939	2,117,223	214,639	179,195
Papan lapis <i>Plywood</i>	Meter Padu <i>Cubic metre</i>	2,306,438	2,347,718	2,142,694	2,767,847	3,438,335	275,504	307,463
Ukiran kayu <i>Timber moulding</i>	Meter Padu <i>Cubic metre</i>	84,866	84,539	72,081	70,500	54,406	5,868	6,072
Kayu balak siap <i>Dressed timber</i>	Meter Padu <i>Cubic metre</i>	7,131	6,547	5,620	6,761	7,984	961	987
Rak dan beg kertas <i>Sacks and bags of paper</i>	Bilangan ('000) <i>Number ('000)</i>	307,397	326,761	303,730	305,075	355,061	23,774	24,462
Kertas tisu <i>Tissue paper</i>	Tan <i>Tonne</i>	84,394	185,802	94,164	101,978	96,290	9,576	8,620
Kertas napkin <i>Napkin paper</i>	Tan <i>Tonne</i>	8,073	9,394	11,304	9,556	5,355	801	501
Kertas tandas <i>Toilet paper</i>	Tan <i>Tonne</i>	39,816	101,707	111,369	102,267	75,508	10,283	9,857
Minyak tanah <i>Kerosene</i>	Tan <i>Tonne</i>	4,177,301	4,123,364	4,235,615	3,554,047	4,168,054	332,267	293,055
Gas petroleum cecair <i>Liquefied petroleum gas</i>	Tan <i>Tonne</i>	2,608,430	2,721,959	2,900,511	2,525,357	2,692,737	213,223	203,909
Minyak bahan api <i>Fuel oil</i>	Tan <i>Tonne</i>	3,184,767	2,801,698	2,701,437	2,064,280	2,118,830	166,059	190,326
Minyak diesel/gas <i>Diesel/ gas oil</i>	Tan <i>Tonne</i>	12,527,621	12,216,265	13,033,587	10,921,709	12,881,426	907,393	1,095,877
Gasolin (spirit motor) <i>Gasoline (motor spirit)</i>	Tan <i>Tonne</i>	5,332,088	5,828,082	5,861,572	4,980,906	6,433,373	474,611	506,710
Minyak pelincir campuran <i>Blended lubricating oil</i>	Tan <i>Tonne</i>	149,902	158,038	138,461	92,387	106,578	6,535	6,090

2021										2022
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sept.	Okt.	Nov.	Dis.	Jan.
226,051	245,230	175,273	152,426	157,738	183,350	151,055	144,862	151,929	169,286	209,942
54,191	56,054	47,426	45,201	41,149	52,584	56,461	58,199	56,063	39,237	40,162
7,196	7,652	6,371	6,690	5,371	4,823	4,864	5,405	5,761	4,844	4,599
601	642	364	414	492	411	410	522	505	456	452
978	1,101	1,176	872	1,003	997	977	1,351	1,359	1,262	1,271
399	459	384	378	458	448	489	293	289	337	382
305	371	296	170	154	254	241	263	242	242	226
178	180	114	70	95	133	226	276	274	166	161
12,265	12,695	11,098	6,943	9,811	9,781	9,714	10,049	8,084	8,210	8,264
10,056	12,473	12,340	8,289	10,508	11,761	11,796	12,079	12,034	10,376	9,789
55,237	61,035	31,655	32,134	20,210	18,875	20,842	24,962	25,411	24,949	28,703
109,587	122,184	110,960	112,487	143,286	194,941	188,445	232,321	255,656	253,522	233,191
425,264	438,673	397,671	230,379	190,609	175,149	177,600	251,695	275,959	292,370	307,464
4,752	5,106	5,726	3,075	3,002	3,460	3,917	4,778	4,809	3,841	4,075
714	795	733	522	480	444	431	587	583	747	890
26,995	27,048	25,929	29,392	32,637	34,334	30,999	35,070	34,186	30,234	30,350
6,917	6,601	6,188	6,221	7,923	8,335	8,822	8,831	9,179	9,074	9,051
388	371	338	302	340	294	356	499	622	542	545
6,405	5,821	5,257	5,310	6,183	4,256	4,826	5,554	5,979	5,776	7,525
301,694	375,612	321,057	337,191	370,155	352,456	374,492	382,564	347,418	380,093	339,125
239,647	193,970	235,994	220,013	218,194	221,473	218,058	231,497	257,238	239,522	214,892
167,009	170,065	160,077	179,344	188,938	189,405	195,965	182,698	150,126	178,816	168,656
971,358	659,397	920,180	1,102,513	1,207,303	1,180,704	1,243,919	1,207,886	1,250,656	1,134,240	1,057,053
491,449	474,289	532,995	534,128	598,012	589,966	571,563	602,111	577,920	479,620	422,866
6,219	7,191	8,230	8,290	10,594	12,664	10,769	10,320	10,231	9,446	7,857

Jadual 2 : Pengeluaran Produk Utama dalam Industri Pembuatan yang Terpilih
Table : Production of Major Products in Selected Manufacturing Industries

Keterangan Produk Product Description	Unit Kuantiti Quantity Unit	2017	2018	2019	2020	2021		
							Jan.	Feb.
Nafta <i>Naptha</i>	Tan <i>Tonne</i>	4,341,796	4,266,449	4,336,029	3,754,323	3,901,388	362,041	343,233
Gas asli cecair <i>Liquefied natural gas</i>	Tan <i>Tonne</i>	24,619,394	27,785,824	28,689,391	26,576,031	29,011,740	2,446,912	2,566,241
Nitrogen dan oksigen <i>Nitrogen and oxygen</i>	Meter padu ('000) <i>Cubic metre ('000)</i>	676,429	418,770	416,483	456,279	564,435	44,984	49,650
Methanol (methyl alcohol) <i>Methanol (methyl alcohol)</i>	Tan <i>Tonne</i>	2,184,245	6,033,764	6,999,396	4,554,549	3,717,444	256,915	321,432
Baja (termasuk urea) <i>Fertilizers (includes urea)</i>	Tonne <i>Tonne</i>	2,838,245	3,616,402	3,720,847	4,080,289	5,839,960	439,716	414,179
Sebatian P.V.C <i>P.V.C. compound</i>	Tan <i>Tonne</i>	109,483	109,562	100,843	76,016	88,182	8,053	8,595
Racun serangga aerosol (cecair) <i>Aerosol insecticides (liquid)</i>	Liter <i>Litres</i>	9,241,807	7,965,253	7,397,612	7,241,839	7,057,722	576,260	619,374
Racun herba (cecair) <i>Herbicides (liquid)</i>	Liter ('000) <i>Litres ('000)</i>	54,710	58,626	38,807	55,497	68,379	5,555	6,139
Racun herba (bukan cecair) <i>Herbicides (non-liquid)</i>	Tonne <i>Tonne</i>	12,748	32,139	26,842	43,157	66,062	4,108	4,587
Cat emulsi <i>Emulsion paints</i>	Liter ('000) <i>Litres ('000)</i>	92,222	118,111	101,689	68,600	49,480	5,048	5,130
Cat lapis <i>Under-coats</i>	Liter ('000) <i>Litres ('000)</i>	10,236	14,754	14,977	13,869	17,890	1,329	1,308
Cat asas <i>Primers</i>	Liter ('000) <i>Litres ('000)</i>	20,779	24,642	29,629	20,036	19,302	2,217	2,004
Dakwat pencetak <i>Printing ink</i>	Tan <i>Tonne</i>	41,585	37,543	32,587	35,326	28,717	2,001	2,041
Pelembut fabrik <i>Fabric softener</i>	Liter ('000) <i>Litres ('000)</i>	62,813	65,640	65,858	40,262	33,368	2,661	2,891
Sabun mandi <i>Toilet soap</i>	Tan <i>Tonne</i>	34,143	45,402	45,523	21,028	16,915	1,650	1,663
Sabun serbuk (bahan pencuci) <i>Soap powder (detergents)</i>	Tan <i>Tonne</i>	182,677	148,003	133,244	96,719	102,043	7,006	7,800
Pelekat perindustrian <i>Adhesive, industrial</i>	Liter ('000) <i>Litres ('000)</i>	226,975	241,025	191,096	161,056	156,030	13,268	13,477
Tayar pneumatik (semua jenis) <i>Pneumatic tyres (all types)</i>	Bilangan ('000) <i>Number ('000)</i>	15,190	13,674	13,334	9,131	8,261	841	869
Tiub dalam (semua jenis) <i>Inner tubes (all types)</i>	Bilangan ('000) <i>Number ('000)</i>	5,370	4,825	3,307	1,869	1,426	148	135
Getah mutu malaysia (semua gred) <i>S.M.R. (all grades)</i>	Tan <i>Tonne</i>	773,498	874,609	897,171	972,584	817,560	92,531	90,082
Susu getah diproses <i>Processed latex</i>	Tan <i>Tonne</i>	44,093	26,197	24,553	33,471	41,081	3,260	3,640
Sarung tangan getah <i>Rubber gloves</i>	Pasang (Juta) <i>Pairs (Million)</i>	37,525	54,184	55,404	102,592	136,796	11,868	12,268
Kondom <i>Condom</i>	Gross ('000) <i>Gross ('000)</i>	13,019	9,678	9,237	15,532	18,085	1,354	1,358
Paip P.V.C. <i>P.V.C. pipes</i>	Tan <i>Tonne</i>	129,894	127,974	141,991	105,091	99,972	7,203	9,703
Bata tanah <i>Earthen bricks</i>	Bilangan ('000) <i>Number ('000)</i>	237,420	275,959	316,411	181,463	109,691	12,237	14,302

2021										2022
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sept.	Okt.	Nov.	Dis.	Jan.
318,554	359,251	258,787	346,846	326,370	306,799	334,974	328,569	306,856	309,108	283,494
2,624,160	1,974,409	2,366,907	2,562,445	2,651,288	2,452,114	2,098,569	2,334,616	2,553,140	2,380,939	2,480,530
61,237	42,660	45,872	55,962	50,108	39,085	37,093	42,171	46,401	49,212	48,541
304,278	212,091	255,536	290,342	292,501	377,911	344,269	308,452	308,810	444,907	387,861
365,543	321,041	277,829	431,781	514,804	620,176	588,288	538,944	674,127	653,532	607,577
8,546	7,428	5,132	4,375	4,573	6,690	8,589	9,199	8,863	8,139	8,010
638,421	754,314	548,553	529,015	550,117	611,604	534,337	543,737	594,475	557,515	552,408
7,026	7,545	5,602	5,021	5,405	5,909	3,518	5,109	5,181	6,368	8,169
4,992	5,966	5,515	5,435	5,363	5,470	5,497	6,200	5,673	7,257	7,329
5,288	4,917	4,476	2,923	3,193	4,058	3,572	3,091	4,098	3,686	4,498
1,126	1,077	1,243	1,557	1,576	1,791	1,718	1,793	1,723	1,651	1,465
1,559	1,235	1,252	1,280	1,314	1,606	1,569	1,420	1,464	2,382	1,843
2,021	2,121	2,853	2,685	2,816	2,986	2,681	2,032	2,100	2,379	2,129
2,893	2,499	2,365	2,162	2,210	2,570	2,805	3,323	3,709	3,281	2,649
1,610	1,225	1,052	1,319	1,226	1,439	1,360	1,193	1,403	1,773	1,185
8,000	6,827	7,011	7,604	8,020	9,250	11,078	10,801	9,162	9,485	8,057
12,609	13,374	14,372	14,815	13,091	12,950	13,076	11,860	11,995	11,145	11,894
815	764	465	534	572	421	522	833	822	802	979
107	110	81	89	116	108	131	147	145	107	134
79,908	74,425	56,606	51,636	50,666	59,266	63,052	57,242	69,374	72,772	59,033
3,922	4,199	3,792	3,304	3,404	3,755	3,309	2,752	2,640	3,104	2,775
17,351	16,938	16,324	16,276	10,824	7,338	7,065	7,044	6,911	6,587	8,188
1,550	1,834	1,847	1,921	1,660	1,337	1,590	1,312	1,072	1,251	1,508
9,904	10,081	8,005	8,470	8,842	7,011	6,332	7,705	8,513	8,203	8,332
10,752	10,032	7,467	3,020	3,352	4,814	6,390	10,821	13,727	12,776	12,453

Jadual 2 : Pengeluaran Produk Utama dalam Industri Pembuatan yang Terpilih
Table : Production of Major Products in Selected Manufacturing Industries

Keterangan Produk Product Description	Unit Kuantiti Quantity Unit	2017	2018	2019	2020	2021		
							Jan.	Feb.
Jubin seramik Ceramic tiles	M. Persegi ('000) Sq. metres ('000)	44,896	44,612	31,119	31,495	28,512	2,864	2,887
Simen (semua jenis) Cement (all types)	Tan ('000) Tonnes ('000)	18,762	17,556	16,102	19,936	19,961	2,278	2,459
Konkrit campuran siap Ready mixed concrete	Meter padu ('000) Cubic metre ('000)	30,323	32,047	34,067	34,841	35,425	2,792	3,232
Bumbung genting simen (semua jenis) Cement roofing tiles (all types)	Bilangan ('000) Number ('000)	36,073	35,472	43,484	47,874	37,054	3,586	2,946
Cerucuk, tiang konkrit Piles, poles, posts of concrete	Tan Tonne	2,601,180	2,627,848	2,034,572	1,699,228	1,549,050	153,597	163,397
Pasir silika (diproses) Silica sands (processed)	Tan ('000) Tonnes ('000)	489,242	535,673	393,246	261,872	157,885	27,038	28,781
Selak dan kekeras Bolts and nuts	Tan ('000) Tonnes ('000)	533,123	612,850	584,723	616,367	870,924	70,373	73,473
Bar dan batang besi dan keluli Iron and steel bars and rods	Tan Tonne	1,698,226	1,853,029	1,403,863	1,295,505	707,765	53,941	62,581
Kepingan besi yang disadur Galvanized iron sheets	Tan Tonne	145,734	112,648	156,786	152,099	167,833	10,445	13,585
Tin timah dan semua tin lain Tin cans and all other tins	Bilangan ('000) Number ('000)	3,539,920	3,739,323	3,131,962	2,683,374	2,899,385	300,331	307,811
Dram besi dan keluli Iron and steel drums	Bilangan ('000) Number ('000)	4,904	4,560	4,347	3,717	3,936	398	419
Dawai besi dan keluli bersadur Galvanised iron and steel wire	Tan Tonne	119,962	156,534	180,148	131,139	135,473	9,237	10,959
Dawai mata punai dan jaring Wire mesh and netting	M. Persegi ('000) Sq. metres ('000)	138,585	82,809	48,045	28,555	19,258	2,073	1,819
Transformer elektrik Electrical transformers	Bilangan ('000) Number ('000)	183,212	191,478	168,959	202,996	266,713	17,578	18,917
Dawai dan kabel yang terlebat Insulated wires and cables	Tan Tonne	98,756	92,234	95,752	111,184	129,356	8,970	8,586
Separa konduktor Semi-conductors	Bil. (Juta) Num. (Million)	20,111	22,033	28,758	26,699	29,453	2,181	2,554
Transistor elektronik Electronic transistors	Bil. (Juta) Num. (Million)	41,365	36,871	35,582	36,919	48,538	3,642	4,111
Litar bersepadu Integrated circuits	Bil. (Juta) Num. (Million)	27,155	29,828	26,581	34,318	41,416	3,130	3,389
Televisyen Television	Bilangan Number	11,446,057	12,609,183	9,934,919	12,228,893	15,071,948	1,205,109	1,248,946
Radio Radios	Bilangan ('000) Number ('000)	5,291	6,686	8,789	9,363	9,752	853	844
Penyaman udara Air-conditioners	Bilangan Number	4,208,937	4,395,397	4,953,912	1,910,268	2,253,569	153,930	216,372
Kereta penumpang Passenger cars	Bilangan Number	459,558	522,392	533,131	454,805	446,417	36,186	41,301
Kenderaan perdagangan Commercial vehicles	Bilangan Number	71,990	72,709	57,608	43,691	61,634	5,785	7,030
Wayar abah-abah, kenderaan bermotor Wire harness, motor vehicle	Bilangan ('000) Number ('000)	6,597	5,377	5,927	6,642	7,825	635	583
Motosikal dan skuter Motor cycles and scooters	Bilangan Number	285,104	251,720	242,789	240,066	172,431	24,155	25,612

2021										2022
Mac	Apr.	Mei	Jun	Jul.	Ogo.	Sept.	Okt.	Nov.	Dis.	Jan.
2,554	2,439	2,452	1,382	1,467	1,861	2,396	3,270	1,820	3,119	2,589
1,912	1,309	1,211	996	1,130	1,381	1,378	1,655	2,050	2,204	2,326
3,806	3,072	2,491	2,144	2,531	3,345	2,861	3,077	3,089	2,985	2,809
4,712	3,227	3,084	2,495	2,727	3,038	3,105	3,291	2,446	2,399	2,623
129,968	147,657	141,082	88,203	85,850	123,195	131,062	105,587	133,727	145,725	127,642
25,250	10,684	6,380	5,209	5,263	6,690	6,975	11,774	13,038	10,802	8,592
71,835	62,095	59,759	54,664	65,126	77,662	76,623	90,287	88,685	80,341	86,716
50,488	72,428	52,017	50,466	58,501	86,726	58,575	53,988	50,002	58,052	50,692
16,691	16,165	14,131	10,909	11,196	15,733	16,410	14,921	12,994	14,653	11,652
233,825	240,244	202,677	196,433	183,377	212,570	260,151	246,369	260,526	255,073	267,779
338	355	327	313	230	272	326	322	320	315	322
9,930	9,045	8,147	8,339	9,921	11,278	15,297	15,316	12,875	15,130	10,576
1,312	1,616	1,534	1,075	1,090	1,311	1,622	1,755	2,039	2,013	1,929
19,507	19,813	21,327	21,848	25,556	23,591	23,869	27,347	23,366	23,994	25,116
9,190	9,525	8,719	11,520	11,616	10,480	14,321	14,621	11,037	10,769	11,565
2,688	2,346	2,194	2,355	2,375	2,554	2,760	2,658	2,361	2,428	2,544
4,406	4,251	4,148	4,302	3,797	3,457	3,874	4,125	3,831	4,592	4,750
3,393	3,964	3,821	3,602	3,307	3,294	3,137	3,415	3,301	3,662	3,561
1,356,207	1,557,202	1,596,688	1,397,708	938,281	991,265	1,055,845	1,156,889	1,129,318	1,438,490	1,421,426
601	709	685	733	717	707	894	913	972	1,125	1,045
221,551	220,950	195,318	181,357	175,910	173,839	160,098	177,582	176,287	200,375	185,063
58,102	47,764	40,159	246	2,396	12,897	42,556	61,248	53,661	49,901	39,455
5,816	6,766	6,778	1,341	1,509	2,016	3,964	5,271	8,336	7,022	6,024
659	572	541	572	581	481	667	885	844	804	801
29,443	35,903	19,908	1,995	2,177	2,817	5,082	7,120	8,094	10,126	10,745

NOTA TEKNIKAL
TECHNICAL NOTES



NOTA TEKNIKAL

1. OBJEKTIF

Objektif utama penerbitan ini ialah untuk menyediakan statistik aliran terkini bagi indikator utama di sektor Pembuatan, iaitu statistik **nilai jualan, bilangan pekerja bergaji, gaji & upah** serta **pengeluaran produk utama** yang dipungut melalui Survei Pembuatan Bulanan. Statistik ini membantu pengguna dalam merangka dasar serta membuat keputusan.

2. PENANDA ARASAN

Selepas melaksanakan Banci Ekonomi 2016 (tahun rujukan 2015), Jabatan Perangkaan Malaysia (DOSM) telah mengkaji dan melaksanakan proses penanda arasan terhadap statistik pembuatan yang dipungut melalui Survei Pembuatan Bulanan. Proses penanda arasan ini membolehkan siri nilai anggaran tahunan yang dijana menerusi statistik jangka pendek konsisten dengan nilai tahunan daripada banci/survei tahunan sebagai tahun penanda aras. Penanda arasan yang dibuat berpanduan *Quarterly National Accounts Manual 2017 edition, International Monetary Fund* bagi mencapai objektif seperti berikut:

- Menganggarkan data bulanan supaya konsisten dengan data tahunan iaitu, untuk memastikan jumlah data bulanan adalah sama dengan penanda aras tahunan;
- Memelihara sebanyak mungkin pertumbuhan indikator bulanan semasa proses penanda arasan tahunan dibuat; dan
- Memastikan data siri ke hadapan, jumlah data bulanan bagi tahun semasa sedekat mungkin dengan data tahunan yang diperoleh semasa banci atau survei tahunan yang dijalankan.

Statistik penanda arasan disusun bagi nilai jualan, bilangan pekerja bergaji dan gaji & upah sektor Pembuatan dan diterbitkan mulai Januari 2020. Tahun asas (penanda aras) adalah menggunakan Banci Ekonomi 2016 (tahun rujukan 2015) sebagai tahun penanda aras dan kaedah *pro rata* dan *extrapolation* digunakan dalam proses penanda arasan ini.

Kaedah *pro rata*:

$$M^iV = \frac{M^iI}{\sum_{i=1}^{12} M^iI} \times ADT$$

di mana

M^iV pemboleh ubah anggaran bulanan yang dinaik aras

M^iI siri indikator bulanan

ADT data tahunan tahun asas (penanda aras)

Kaedah *extrapolation*:

$$V_t = V_{t-1} * G_{t-1,t}$$

di mana

V_t nilai pemboleh ubah

$G_{t-1,t}$ pertumbuhan daripada t-1 kepada t



3. SKOP DAN LIPUTAN

Data yang dipungut dalam Survei Pembuatan Bulanan meliputi seluruh Malaysia. Mulai Januari 2020, penerbitan ini memaparkan statistik berwajaran yang menggambarkan populasi sampel bagi 251 industri dalam sektor Pembuatan.

Data 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).

4. SUMBER RANGKA

Sumber rangka ialah daripada *Malaysia Statistical Business Register (MSBR)* di mana maklumat utama diperoleh daripada banci dan survei yang dilaksanakan oleh Jabatan Perangkaan Malaysia (DOSM) serta data pentadbiran. Sumber utama data pentadbiran tersebut adalah daripada Suruhanjaya Syarikat Malaysia (SSM). Selain itu, DOSM juga turut bekerjasama mendapatkan maklumat daripada lebih 50 agensi lain seperti Kumpulan Wang Simpanan Pekerja (KWSP), Jabatan Kastam Diraja Malaysia (JKDM), Lembaga Hasil Dalam Negeri (LHDN), Pihak Berkuasa Tempatan (PBT) serta Badan-badan Profesional. Rangka dikemaskini secara berterusan dengan mengambil kira pertubuhan baru dan merekod sebarang perubahan dalam status pertubuhan seperti tutup, tidak beroperasi, perubahan jenis aktiviti dan lokasi atau alamat pos untuk memastikan maklumat yang terdapat dalam rangka adalah yang paling terkini.

5. 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 bagi pertubuhan adalah berasaskan kepada aktiviti utama dan Piawaian Klasifikasi Industri Malaysia (MSIC 2008) Versi 1.0. yang diselaraskan dengan *International Standard Industrial Classification of All Economic Activities (ISIC), Rev. 4, United Nations* dengan pengubahsuaian mengikut keperluan tempatan.

6. 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 Piawaian Klasifikasi Industri Malaysia (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.





7. 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 substrata untuk memastikan sampel yang diagihkan mengambil kira ciri-ciri ekonomi strata tersebut. Substrata utama bersifat heterogen dan diliputi secara penuh. Manakala, substrata selainnya yang 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 kecil dan sederhana (PKS).

8. 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

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 dan 4

i = 1, 2, ..., k





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.

9. WAJARAN

Analisis berwajaran disediakan menggunakan wajaran sampel bagi memastikan sampel yang dipilih dapat menggambarkan populasi survei. Wajaran yang diperlukan adalah wajaran di peringkat reka bentuk pensampelan dan tiada respons.

Wajaran reka bentuk pensampelan pada substrata h adalah seperti berikut :

$$W_h = \frac{N_h}{n_h}, \quad h = 1, \dots, 4$$

di mana;

N_h = Bilangan populasi bagi substrata h ; dan

n_h = Bilangan sampel bagi substrata h





Wajaran tiada respons pada substrata h adalah seperti berikut :

$$NRW_h = \frac{1}{\frac{n'_h}{n_h}} \quad h = 1, \dots, 4$$

di mana;

n'_h = Bilangan sampel respons bagi substrata h

n_h = Bilangan sampel bagi substrata h

Kaedah pengiraan wajaran reka bentuk pensampelan selepas survei (*adjusted weight*) pada substrata h seperti berikut:

$$W'_h = W_h \times NRW_h, \quad h = 1, \dots, 4$$

di mana;

W_h = Wajaran reka bentuk pensampelan pada substrata h

NRW_h = Wajaran tiada respons pada substrata h

10. UNIT MELAPOR

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





11. NILAI JUALAN

Nilai jualan yang dilaporkan merujuk kepada nilai jualan produk sendiri sahaja. Ini bermaksud jualan produk yang berlaku dalam bulan laporan, sama ada produk tersebut telah dibuat/dihasilkan oleh pertubuhan pada bulan tersebut atau bulan-bulan sebelumnya. Nilai jualan adalah berdasarkan kepada nilai bersih di kilang dan berkaitan dengan kuantiti yang dijual. Penilaian harga yang dikenakan kepada pelanggan adalah tidak termasuk:

- a. diskaun atau rebat;
- b. bayaran untuk pengangkutan keluar;
- c. komisen kepada wakil-wakil penjual;
- d. bayaran lain seperti cukai eksais yang dibayar atau cukai jualan yang dipungut oleh kilang bagi pihak kerajaan; dan
- e. bayaran pemasangan, pembaikan dan pembinaan

12. BILANGAN PEKERJA BERGAJI

Bilangan pekerja bergaji meliputi seperti berikut:

- a. Pekerja bergaji (sepenuh masa) - Merujuk kepada semua pekerja bergaji yang bekerja sekurang-kurangnya 6 jam sehari dan sekurang-kurangnya 20 hari sebulan; dan
- b. Pekerja bergaji (sambilan) - Merujuk kepada semua pekerja bergaji yang bekerja kurang daripada 6 jam sehari dan/atau kurang daripada 20 hari sebulan.

13. GAJI & UPAH DIBAYAR

Gaji & upah yang dibayar merujuk kepada semua bayaran tunai, termasuk bonus, komisen, bayaran lebih masa, elaun kos sara hidup dan elaun lain yang dibayar kepada semua pekerja bergaji dalam bulan rujukan. Caruman Kumpulan Wang Simpanan Pekerja (KWSP) serta Pertubuhan Keselamatan Sosial (PERKESO) turut dimasukkan tetapi caruman oleh majikan dikecualikan. Elaun kepada pemilik yang bekerja, rakan niaga yang bekerja dan pekerja keluarga tidak bergaji, bayaran pampasan dan saguhati kerana pemberhentian adalah juga dikecualikan.

14. 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.





15. PINDAAN

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

16. PEMBUNDARAN

Perjumlahan komponen mungkin berbeza dengan angka jumlah besar disebabkan pembundaran.

17. SIMBOL DAN SINGKATAN

Simbol-simbol berikut telah digunakan dalam keseluruhan penerbitan:-

t.t.t.l. : tidak terkelas di tempat lain

RM : Ringgit Malaysia

18. PELARASAN MUSIM

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

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

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





TECHNICAL NOTES

1. OBJECTIVE

The main objective of this publication is to provide statistics on the latest trend of main indicators in the Manufacturing sector, ie. **sales value, number of employees, salaries & wages** and **the production of main products manufactured** which is collected through Monthly Manufacturing Survey. This statistics assists users in policy formulation and decision making.

2. BENCHMARKING

After conducting the Economic Census 2016 (reference year 2015), Department of Statistics Malaysia (DOSM) has reviewed and carried out the benchmarking process towards the manufacturing statistics collected from the Monthly Manufacturing Survey. The benchmarking process is done to enable the series of values of annual estimates derived from short term survey consistent and match with the annual value from census/annual survey of the benchmark year. The benchmark process adapted the guideline of the Quarterly National Accounts Manual 2017 edition, International Monetary Fund to meet the objectives as follows:

- a. to estimate monthly data that are temporally consistent with the annual data: that is, to ensure that the sum of the monthly data is equal to the annual benchmark;
- b. to preserve as much as possible the monthly movements in the indicator under the restrictions provided by the annual data; and
- c. to ensure, for forward series, that the sum of the monthly of the current year is as close as possible to the unknown future annual data.

The benchmarking statistics is compiled on sales value, number of employees and salaries & wages and being published starting from January 2020. The base (benchmark) year using the Economic Census 2016 (reference year 2015) and pro rata and extrapolation method is used in the benchmarking process.

Pro rata Method:

$$M^i V = \frac{M^i I}{\sum_{i=1}^{12} M^i I} x ADT$$

where

MⁱV new derived monthly variables estimates

MⁱI monthly indicator series

ADT annual benchmark data

Extrapolation Method:

$$V_t = V_{t-1} * G_{t-1,t}$$

where

V_t value of variable

G_{t-1,t} growth from t-1 to t



3. SCOPE AND COVERAGE

Data collected in the Monthly Manufacturing Survey covered the whole of Malaysia. Since January 2020, this publication presents weighted statistics which represent the population sample of 251 industries in Manufacturing sector. Data 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).

4. SOURCE OF FRAME

The source of frame is from Malaysia Statistical Business Register (MSBR) where the main information is from census and survey conducted by the Department of Statistics Malaysia (DOSM) and administrative data. The main source of the administrative data is from the Companies Commission of Malaysia (CCM). In addition, DOSM also collaborates and yield information from over 50 other agencies such as the Employees Provident Fund (EPF), Royal Malaysian Customs Department (RMCD), Inland Revenue Board (IRB), Local Authorities and other Professional Bodies. The frame is updated continuously by taking into account of new establishments and to record any changes in the establishment status such as closed down, not in operation, change in types of activity and location or postal addresses to ensure that the information in the frame is at the most current status.

5. TYPE OF BUSINESS ACTIVITY

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 and the Malaysia Standard Industrial Classification (MSIC 2008) Version 1.0 according to the International Standard Industrial Classification of All Economic Activities (ISIC), Rev. 4, United Nations, with modifications to suit local conditions.

6. 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 Malaysia Standard Industrial Classification (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.





7. 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 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 small and medium enterprise (SME) categories.

8. 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;

n = Sample size

N_i = Population size for stratum i

S_i^2 = Variance for stratum i

V = Desired variance

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

where;

$\hat{Y}_i$ = Estimated sales value for stratum

RSE = Relative standard error

Z = Value of confidence level

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

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

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

$i = 1, 2, \dots k$





where;

n_{hi} = Sample size for substratum h of stratum i

N_h = Population size for substratum h

S_h = Standard deviation for substratum h

n_i = Sample size for stratum i

h = Substratum

i = Stratum

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

9. WEIGHTED

Weighted analysis is done using sampling weight to ensure that the selected sample can reflect population survey. The weights required are the sampling design and non response weights.

The sampling design weight for the establishment at substratum h is as follows:

$$W_h = \frac{N_h}{n_h}, \quad h = 1, \dots, 4$$

where,

N_h = Total population of substratum h ; and

n_h = Total sample of substratum h





Non response weight at substratum h as below:

$$NRW_h = \frac{1}{\frac{n'_h}{n_h}}, \quad h = 1, \dots, 4$$

where,

n'_h = Number of response in sample size for substratum h

n_h = Number of sample size for substratum h

The method of calculating the sampling design weight after the survey (adjusted weight) on substratum h as below:

$$W'_h = W_h \times NRW_h, \quad h = 1, \dots, 4$$

where,

W_h = Sampling design weight at substratum h

NRW_h = Non response weight at substratum h

10. REPORTING UNIT

The reporting unit used in the survey was the **establishment**. An establishment is defined as "an economic unit engaged in one activity, under a single legal entity and operating in a single physical location". Each establishment was assigned an industry classification based on its principal activity. In the case of a multi-activity entity, units engaged in separate activities in the same location constituted distinct establishments. Thus, each branch of a multi-branch organisation 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.





11. VALUE OF SALES

The reported sales value refers to the sales value of their own products. This relates to sales of goods made on the reporting month, whether the products were produced/manufactured by the establishment during the month or in the other months previously. The sales value was net selling price (ex-factory) value relating to the quantity sold. The valuation price charged to customers were excluding:

- a. discounts or rebates;
- b. Charges for carriage outwards;
- c. commissions to selling agents;
- d. all other charges such as excise duties paid, sales tax collected by the factory on behalf of the government; and
- e. Installation, repairs and construction charges.

12. NUMBER OF PAID EMPLOYEES Number of paid employees cover as follows:

- a. Paid employees (full-time) - Refers to those who work for at least 6 hours a day and 20 days a month; and
- b. Paid employees (part-time) - Refers to all paid workers who work for less than 6 hours a day and/or less than 20 days a month.

13. SALARIES & WAGES PAID

Salaries & wages paid refers to all cash payments, including bonuses, commissions, overtime wages, cost of living allowances and other allowances made to all employees during the reference month. The employees' contribution to Employees' Provident Fund (EPF) and Social Security Organisation (SOCSO) is included but the employer's contribution is excluded. Allowances to working proprietors, working partners and unpaid family workers and severance and termination pay are not included.

14. 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.





15. REVISIONS

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

16. ROUNDING

The sum of the component figures may not tally with the sub-total or total figures due to rounding.

17. SYMBOLS AND ABBREVIATIONS

The following symbols have been used throughout the publication:-

n.e.c.: not elsewhere classified

RM : Malaysian Ringgit

18. SEASONAL ADJUSTMENT

Time-series data are very useful for economists, policy & decision makers and time-series analysts to identify the important features of economic series such as direction, turning point and consistency between other economic indicators. Sometimes this feature is difficult to observe because of seasonal movements. Thus, if the seasonal effect can be removed, the behaviour of the series would be better viewed. The estimation and removal of the seasonal effects is called seasonal adjustment.

Seasonal adjustment is a process to identify and to remove the regular within-a-year seasonal pattern, which may also include the influences of moving holidays and working/trading days effect in each period. The ultimate objective of the process is to highlight the underlying trends and short-term movements in the series.

In Malaysia, most of the time series data are affected by seasonal effects. Hence, to eliminate the seasonal effect as well as to seasonally adjust the Malaysian economic time series data, a standard seasonal adjustment package, X-12 ARIMA was used by Department of Statistics, Malaysia. Malaysian economic time series data also often affected by major religious festivals such as Eid-ul Fitr for Muslims, Chinese New Year to the Chinese and the Indian Deepavali. These festivals' dates are fixed according to the lunar year but vary according to the Gregorian calendar. Therefore, to estimate and remove moving holiday effect from time-series data, a procedure was developed, namely Seasonal Adjustment for Malaysia (SEAM).

