



JABATAN PERDANA MENTERI  
JABATAN PERANGKAAN MALAYSIA

ISSN 1511-872X



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DISEMBER  
*DECEMBER*  
**2021**

**PENUNJUK EKONOMI MALAYSIA**  
INDEKS PELOPOR, SERENTAK & SUSULAN  
***MALAYSIAN ECONOMIC INDICATORS***  
***LEADING, COINCIDENT & LAGGING INDEXES***

JABATAN PERANGKAAN MALAYSIA  
DEPARTMENT OF STATISTICS, MALAYSIA



JABATAN PERDANA MENTERI  
JABATAN PERANGKAAN MALAYSIA

# PENUNJUK EKONOMI MALAYSIA

## INDEKS PELOPOR, SERENTAK & SUSULAN

### *MALAYSIAN ECONOMIC INDICATORS* *LEADING, COINCIDENT & LAGGING INDEXES*

**DISEMBER**  
**DECEMBER** **2021**

#### Pemakluman / Announcement:

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

*Department of Statistics Malaysia will conduct Household Income, Expenditure and Basic Amenities Survey (HIES/BA) 2022 from 1<sup>st</sup> January 2022 until 31<sup>st</sup> December 2022.*

Dimaklumkan bahawa Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah  
"Connecting the World with Data We Can Trust"

*Please be informed that the Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20 each year. MyStats Day theme is  
"Connecting the World with Data We Can Trust"*



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DEPARTMENT OF STATISTICS MALAYSIA

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## KATA PENGANTAR

Penerbitan ini membentangkan statistik Penunjuk Ekonomi Malaysia (PEM) secara bulanan yang terdiri daripada Indeks Pelopor, Serentak dan Susulan. Statistik ini menunjukkan isyarat pergerakan ekonomi di Malaysia dan disusun berasaskan garis panduan *Handbook on Cyclical Composite Indicators, 2017* yang disarankan oleh *Eurostat*.

Ringkasan penemuan dipaparkan di bahagian pertama penerbitan ini. Bahagian kedua memuatkan jadual terperinci bagi membolehkan pengguna menganalisis keadaan ekonomi di Malaysia. Aspek teknikal seperti konsep, sumber data dan metodologi diterangkan di bahagian ketiga bagi membantu pengguna memahami statistik yang diterbitkan.

Jabatan merakamkan penghargaan kepada semua pihak yang telah memberikan kerjasama dan menyumbang 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

Februari 2022

*Summary of findings are highlighted in the first part of this publication. The second part presents detailed tables to enable users to analyse the economic situation in Malaysia. Technical aspects such as concepts, data sources and methodology are described in the third part to assist users to understand the published statistics.*

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

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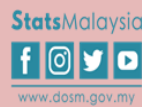
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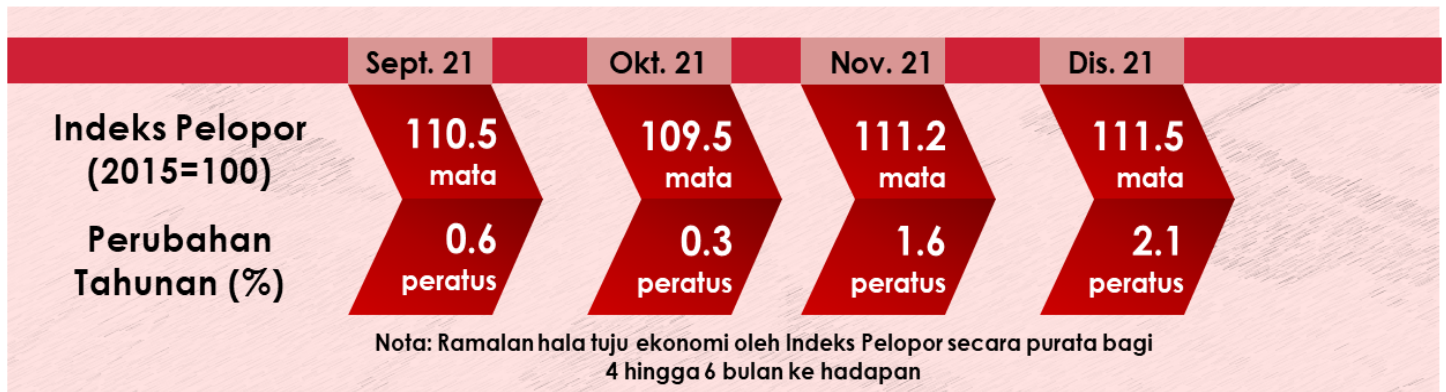
## PENEMUAN UTAMA



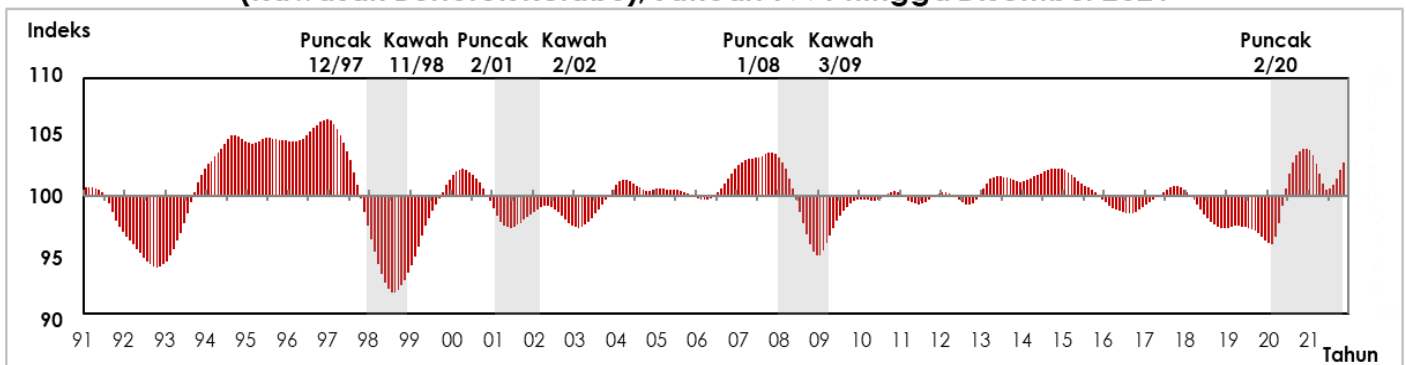
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**INDEKS PELOPOR PADA DISEMBER 2021 MENINGKAT KEPADA 2.1 PERATUS, MENUNJUKKAN PROSPEK EKONOMI YANG LEBIH OPTIMIS PADA BULAN-BULAN AKAN DATANG WALAUPUN KES COVID-19 MELONJAK**



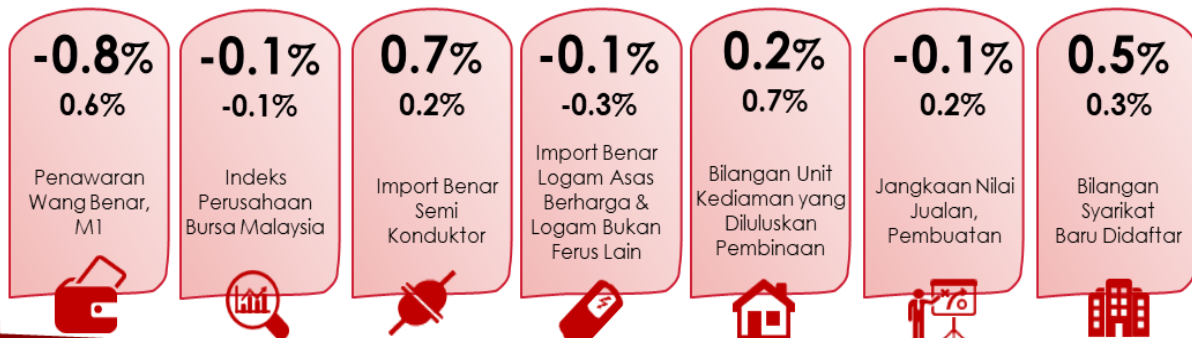
**Indeks Komposit Pelopor (Arah Aliran Jangka Panjang = 100) dan Kitaran Perniagaan (Kawasan Berlorek Kelabu), Januari 1991 hingga Disember 2021**



**Disember 21: 0.3%**  
November 21: 1.6%

**Indeks Pelopor, Bulan ke Bulan (%)**

Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Pelopor daripada Bulan Sebelumnya



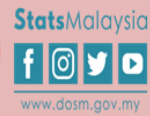
Sumber: Penunjuk Ekonomi Malaysia – Indeks Pelopor, Serentak & Susulan, Disember 2021  
Jabatan Perangkaan Malaysia



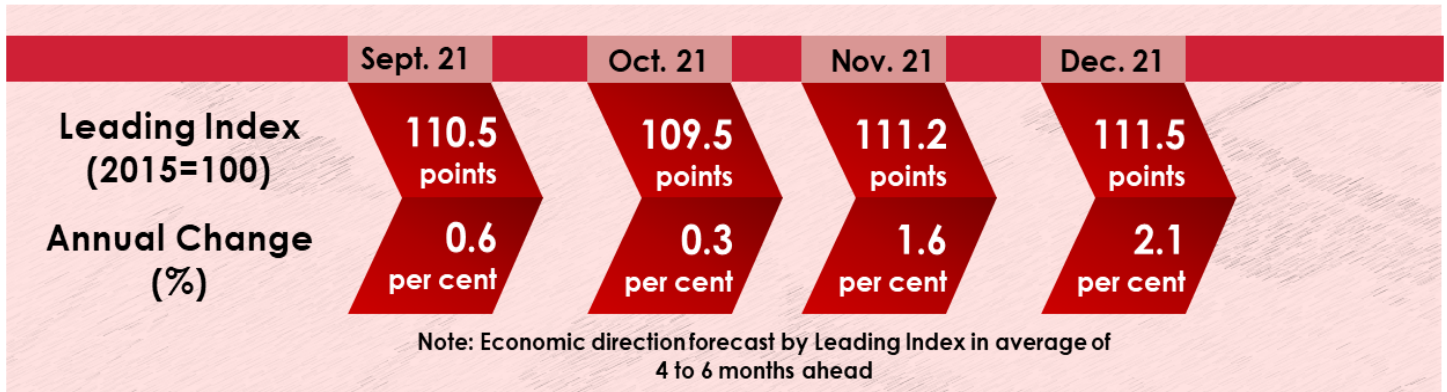
## MAIN FINDINGS



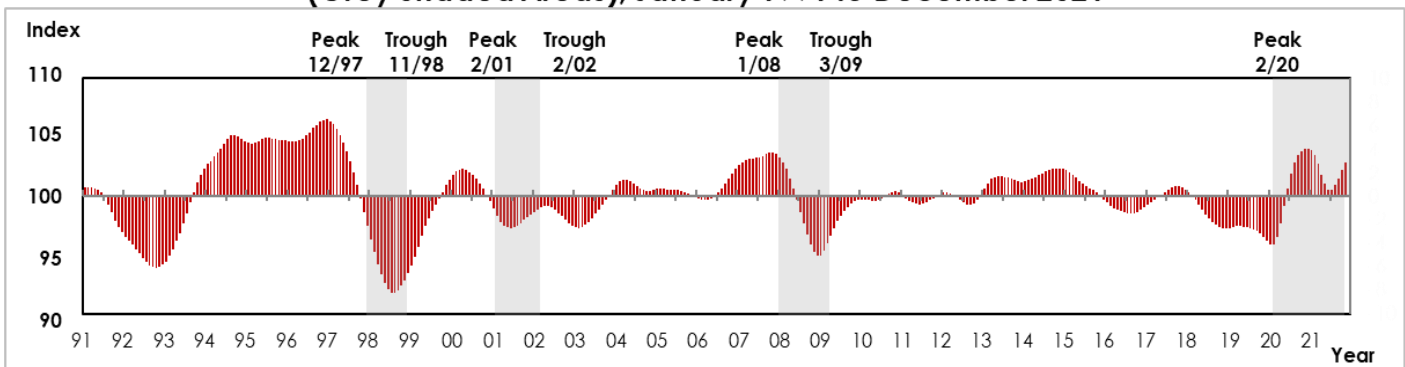
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DEPARTMENT OF STATISTICS MALAYSIA



**THE LEADING INDEX IN DECEMBER 2021 ASCENDED TO 2.1 PER CENT, INDICATING A MORE SANGUINE ECONOMIC OUTLOOK IN THE MONTHS AHEAD DESPITE THE SURGE IN COVID-19 CASES**



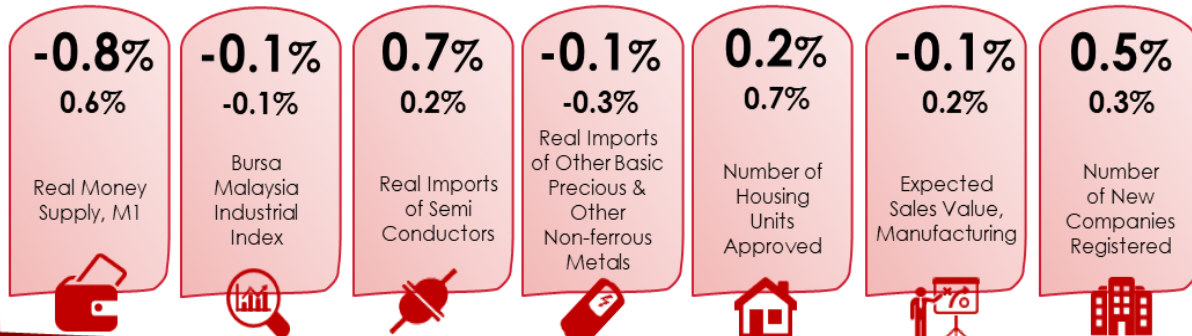
**Leading Composite Index (Long Term Trend = 100) and Business Cycle (Grey Shaded Areas), January 1991 to December 2021**



**December 21: 0.3%**  
November 21: 1.6%

### Leading Index, Month-on-Month (%)

Contribution of Each Component to the Percentage Change in the Leading Index from the Previous Month



Source: Malaysian Economic Indicators - Leading, Coincident & Lagging Indexes, December 2021  
Department of Statistics Malaysia

**Indeks Pelopor pada Disember 2021 meningkat kepada 2.1 peratus, menunjukkan prospek ekonomi yang lebih optimis pada bulan-bulan akan datang walaupun kes COVID-19 melonjak**

Indeks Pelopor (IP) Malaysia pada Disember 2021 kekal dalam aliran pertumbuhan yang meningkat pada 2.1 peratus, mencecah 111.5 mata berbanding bulan yang sama tahun sebelumnya (Disember 2020: 109.2 mata). Pertumbuhan ini disokong terutamanya oleh peningkatan kukuh dalam Bilangan Unit Kediaman yang Diluluskan Pembinaan. Berbanding dengan bulan sebelumnya, IP perlahan kepada 0.3 peratus pada Disember 2021 (November 2021: 1.6%). Penyumbang tertinggi kepada peningkatan ini ialah Import Benar Semi Konduktor (0.7%) dan Bilangan Syarikat Baru Didaftarkan (0.5%). IP pada Disember 2021 yang berterusan melebihi 100.0 mata dan meningkat menunjukkan momentum yang lebih optimis terhadap prospek ekonomi pada bulan-bulan ke hadapan. Di sebalik lonjakan kes COVID-19, Malaysia mengoptimumkan sumber penjagaan kesihatannya untuk mengekang penyebaran varian Omicron, berbanding pelaksanaan semula sekatan ekonomi atau sosial. Oleh yang demikian, membolehkan perniagaan mendapatkan semula momentumnya untuk memacu pemulihan ekonomi.

Dari segi prestasi Indeks Serentak (IS), pertumbuhan tahun ke tahun meningkat sebanyak 2.2 peratus untuk mencatat 113.9 mata pada Disember 2021 (Disember 2020: 111.4 mata). IS yang menggambarkan keadaan ekonomi semasa menurun kepada perubahan bulanan negatif 0.3 peratus pada Disember 2021 (November 2021: 0.9%). Penurunan dalam IS dipengaruhi terutamanya oleh penurunan 0.4 peratus dalam Kapasiti Penggunaan di sektor Pembuatan.

Indeks Difusi bagi IP dan IS menunjukkan prestasi yang menggalakkan pada bulan rujukan. Indeks Difusi bagi IP mencatatkan 71.4 peratus untuk dua bulan berturut-turut sejak November 2021. Pada masa yang sama, Indeks Difusi bagi IS meningkat kepada 100.0 peratus menunjukkan semua komponen IS meningkat berbanding enam bulan lalu.

***The Leading Index in December 2021 ascended to 2.1 per cent, indicating a more sanguine economic outlook in the months ahead despite the surge in COVID-19 cases***

*Malaysia's Leading Index (LI) in December 2021 remained in an upward growth trend at 2.1 per cent, reaching 111.5 points over the same month of the previous year (December 2020: 109.2 points). The growth primarily supported by a sturdy gain in the Number of Housing Units Approved. In comparison to the previous month, the LI eased to 0.3 per cent in December 2021 (November 2021: 1.6%). The increase was highly contributed by Real Imports of Semi Conductors (0.7%) and Number of New Companies Registered (0.5%). The LI in December 2021 which continuously above 100.0 points and rising indicates a more sanguine momentum on the economic outlook in the months ahead. Despite the surge of COVID-19 cases, Malaysia optimises its healthcare resources to curb the spread of Omicron variant, rather than reimplement of economic or social sanctions. Consequently, allows businesses to regain its momentum to spur economic recovery.*

*Given the Coincident Index (CI) performance, year-on-year growth increased by 2.2 per cent to register 113.9 points in December 2021 (December 2020: 111.4 points). The CI which depicts the current state of the economy decreased to a monthly change of negative 0.3 per cent in December 2021 (November 2021: 0.9%). The decrease in CI was mainly influenced by the decline of 0.4 per cent in Capacity Utilisation in Manufacturing sector.*

*The Diffusion Index for LI and CI showed a favourable performance during the reference month. The Diffusion Index for LI registered 71.4 per cent for two consecutive months since November 2021. At the same time, the Diffusion Index for CI improved to 100.0 per cent representing that all CI components increased compared to the six months ago.*

**Jadual 1: Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Pelopor daripada Bulan Sebelumnya**  
**Table 1: Contribution of Each Component to the Percentage Change in the Leading Index from the Previous Month**

| Komponen Indeks Pelopor<br><i>Leading Index Components</i>                                                                                 | Oktober 2021<br><i>October 2021</i> | November 2021<br><i>November 2021</i> | Disember 2021<br><i>December 2021</i> |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|
| 1. Penawaran Wang Benar, M1<br><i>Real Money Supply, M1</i>                                                                                | -0.3                                | 0.6                                   | -0.8                                  |
| 2. Indeks Perusahaan Bursa Malaysia<br><i>Bursa Malaysia Industrial Index</i>                                                              | 0.0                                 | -0.1                                  | -0.1                                  |
| 3. Import Benar Semi Konduktor<br><i>Real Imports of Semi Conductors</i>                                                                   | -0.1                                | 0.2                                   | 0.7                                   |
| 4. Import Benar Logam Asas Berharga & Logam Bukan Ferus Lain<br><i>Real Imports of Other Basic Precious &amp; Other Non-ferrous Metals</i> | -0.3                                | -0.3                                  | -0.1                                  |
| 5. Bilangan Unit Kediaman yang Diluluskan Pembinaan<br><i>Number of Housing Units Approved</i>                                             | -0.3                                | 0.7                                   | 0.2                                   |
| 6. Jangkaan Nilai Jualan, Pembuatan<br><i>Expected Sales Value, Manufacturing</i>                                                          | 0.1                                 | 0.2                                   | -0.1                                  |
| 7. Bilangan Syarikat Baru Didaftarkan<br><i>Number of New Companies Registered</i>                                                         | 0.0                                 | 0.3                                   | 0.5                                   |
| <b>Perubahan Peratusan</b><br><i>Percentage Change</i>                                                                                     | -0.9                                | 1.6                                   | 0.3                                   |

**Jadual 2: Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Serentak daripada Bulan Sebelumnya**  
**Table 2: Contribution of Each Component to the Percentage Change in the Coincident Index from the Previous Month**

| Komponen Indeks Serentak<br><i>Coincident Index Components</i>                     | Oktober 2021<br><i>October 2021</i> | November 2021<br><i>November 2021</i> | Disember 2021<br><i>December 2021</i> |
|------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|
| 1. Jumlah Guna Tenaga, Pembuatan<br><i>Total Employment, Manufacturing</i>         | 0.3                                 | 0.2                                   | 0.1                                   |
| 2. Gaji & Upah Benar, Pembuatan<br><i>Real Salaries &amp; Wages, Manufacturing</i> | 0.1                                 | 0.2                                   | 0.0                                   |
| 3. Indeks Pengeluaran Perindustrian<br><i>Industrial Production Index</i>          | 0.2                                 | 0.3                                   | -0.1                                  |
| 4. Nilai Caruman Benar, KWSP<br><i>Real Contributions, EPF</i>                     | -0.1                                | 0.3                                   | 0.1                                   |
| 5. Kapasiti Penggunaan, Pembuatan<br><i>Capacity Utilisation, Manufacturing</i>    | -0.1                                | -0.3                                  | -0.4                                  |
| 6. Indeks Kuantiti Perdagangan Runcit<br><i>Volume Index of Retail Trade</i>       | 0.4                                 | 0.2                                   | 0.0                                   |
| <b>Perubahan Peratusan</b><br><i>Percentage Change</i>                             | 0.8                                 | 0.9                                   | -0.3                                  |

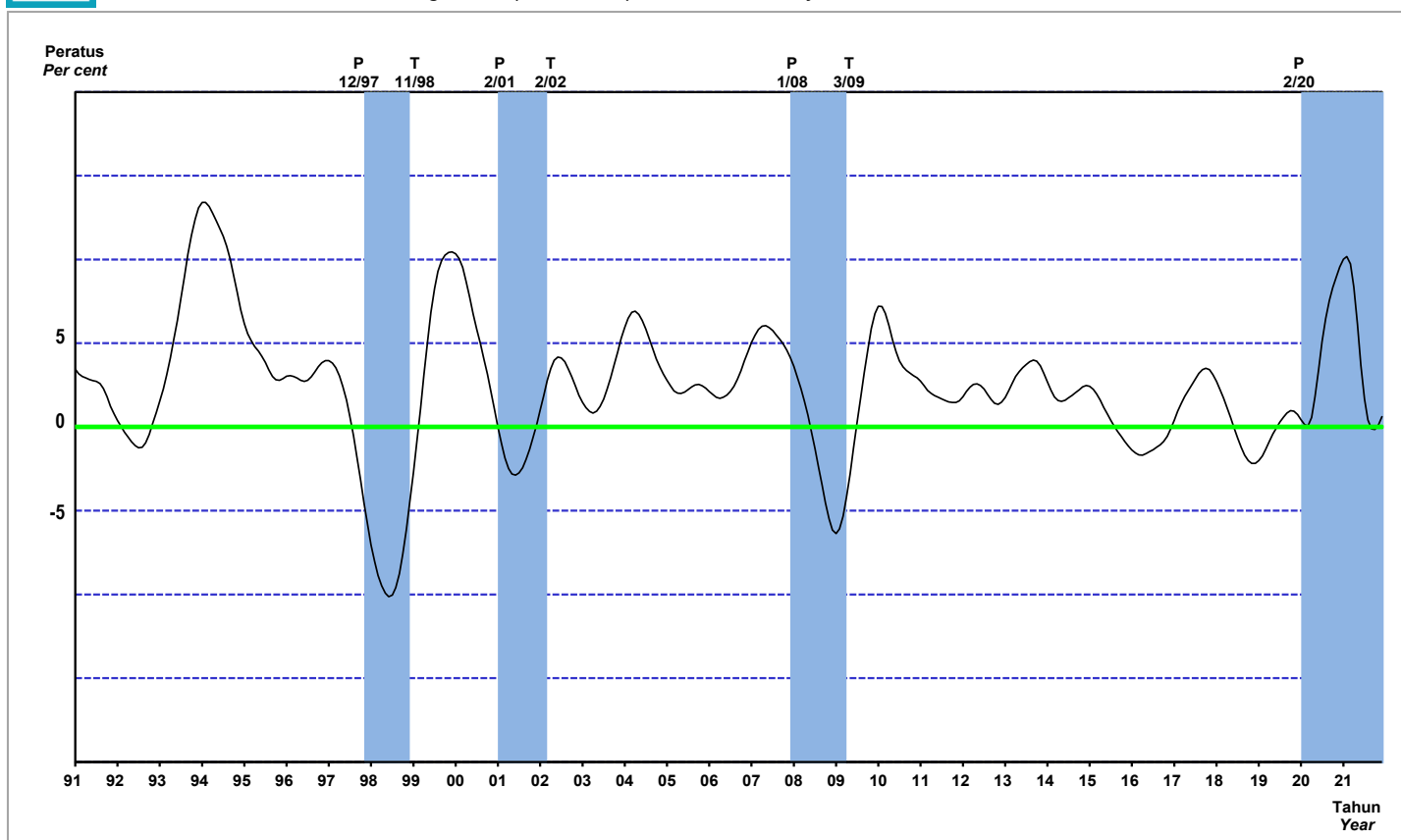
**Jadual 3: Sumbangan Setiap Komponen terhadap Perubahan Peratusan Indeks Susulan daripada Bulan Sebelumnya**  
**Table 3: Contribution of Each Component to the Percentage Change in the Lagging Index from the Previous Month**

| Komponen Indeks Susulan<br><i>Lagging Index Components</i>                                    | Oktober 2021<br><i>October 2021</i> | November 2021<br><i>November 2021</i> | Disember 2021<br><i>December 2021</i> |
|-----------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|
| 1. Kos Seunit Buruh, Pembuatan<br><i>Unit Labour Cost, Manufacturing</i>                      | -0.2                                | -0.2                                  | 0.1                                   |
| 2. Bilangan Projek Pelaburan Baru Diluluskan<br><i>Number of Investment Projects Approved</i> | 0.2                                 | -0.3                                  | 0.3                                   |
| 3. Bilangan Kenderaan Baru Didaftarkan<br><i>Number of New Vehicles Registered</i>            | 0.5                                 | 0.1                                   | 0.4                                   |
| 4. Eksport Gas Asli & Minyak Mentah<br><i>Exports of Natural Gas &amp; Crude Oil</i>          | -1.1                                | 0.8                                   | -0.1                                  |
| 5. IHP Perkhidmatan<br><i>CPI for Services</i>                                                | 0.0                                 | 0.0                                   | 0.5                                   |
| <b>Perubahan Peratusan</b><br><i>Percentage Change</i>                                        | -0.6                                | 0.4                                   | 1.2                                   |



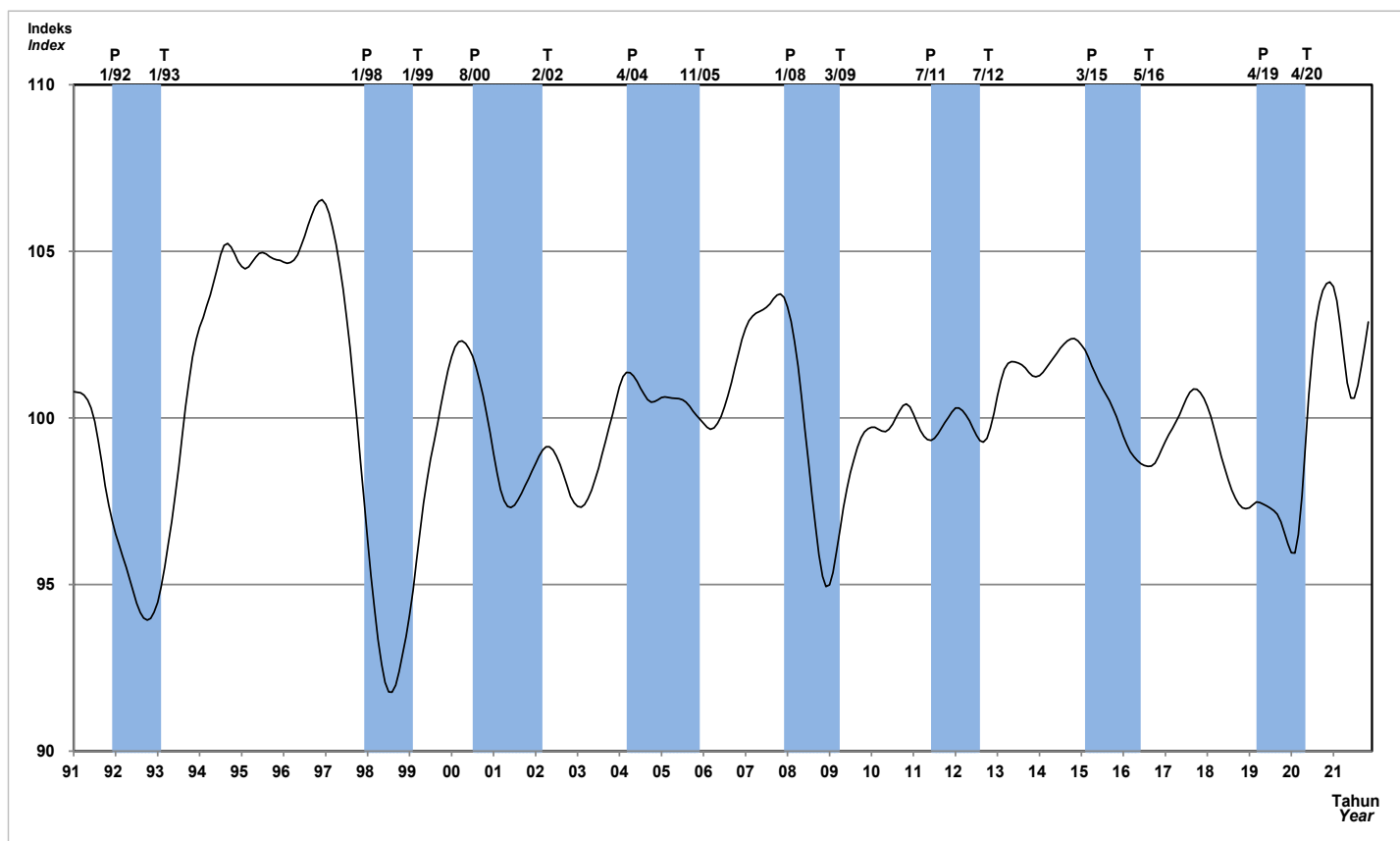
**Carta 1: Kadar Pertumbuhan bagi Indeks Pelopor (Terlicin) dan Kitaran Perniagaan**

*Chart 1: Growth Rate of Leading Index (Smoothed) and Business Cycle*



**Carta 2: Indeks Komposit Pelopor dan Aktiviti Ekonomi (Arah Aliran Jangka Panjang=100)**

*Chart 2: Leading Composite Index and Economic Activity (Long Term Trend=100)*



Nota/Note :

Kawasan berlorek adalah kemelesetan kitaran perniagaan (Carta 1) dan kemelesetan kitaran pertumbuhan (Carta 2) di Malaysia.

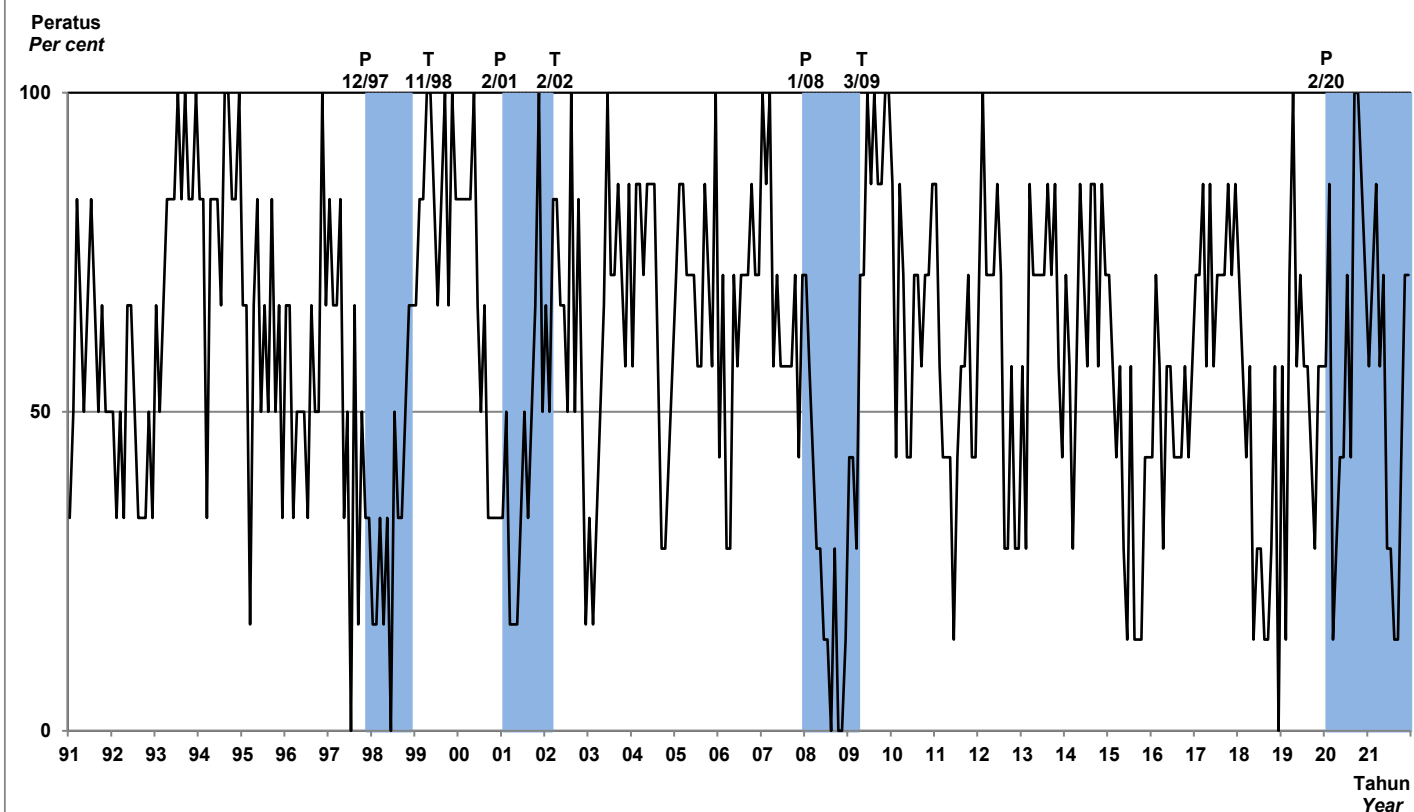
Shaded areas are business cycle recession (Chart 1) and growth cycle recession (Chart 2) in Malaysia.

P Puncak/Peak T Kawah/Trough

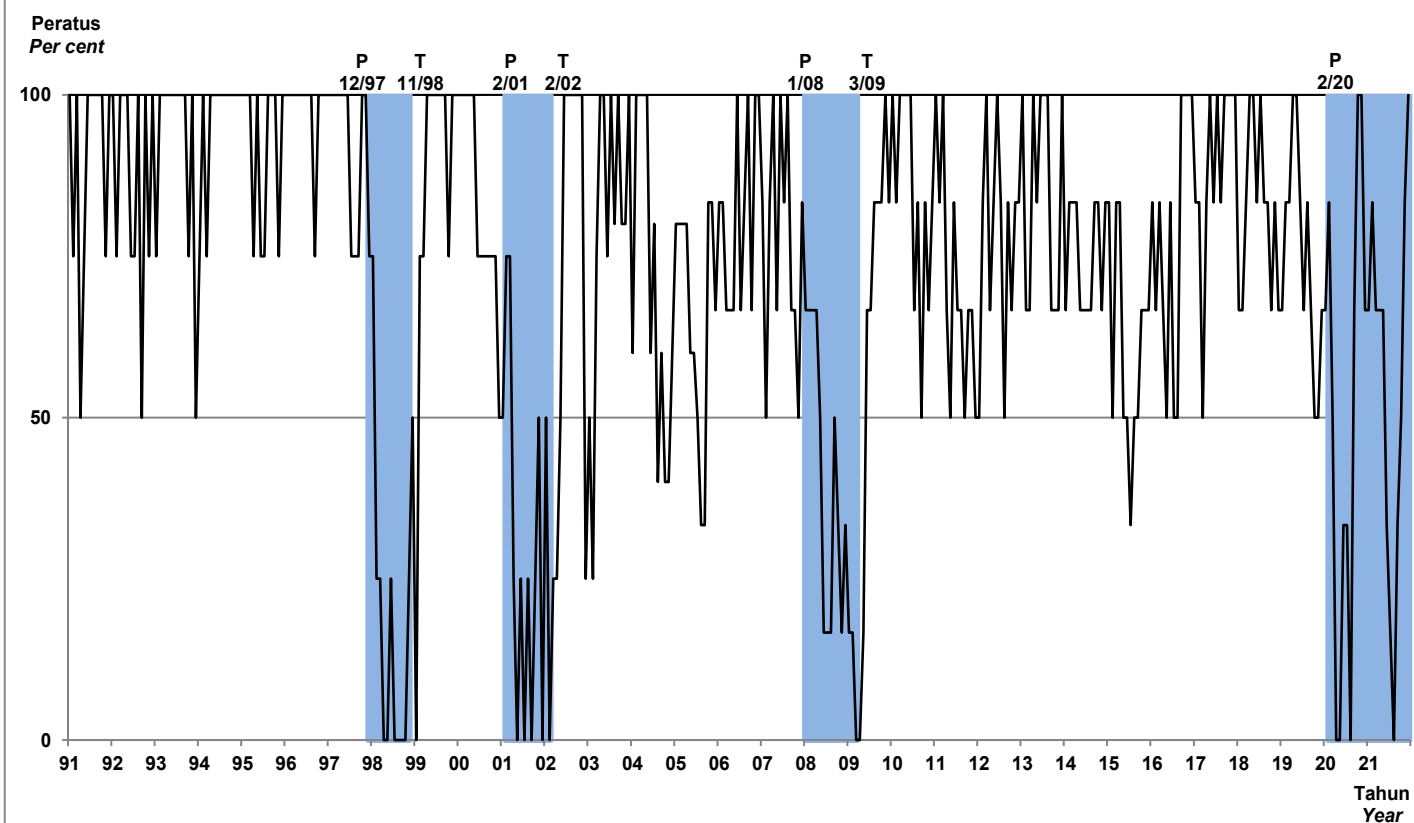
P Puncak/Peak T Kawah/Trough



**Carta 3 : Indeks Difusi Pelopor dan Kitaran Perniagaan**  
*Chart 3 : Leading Diffusion Index and Business Cycle*



**Carta 4 : Indeks Difusi Serentak dan Kitaran Perniagaan**  
*Chart 4 : Coincident Diffusion Index and Business Cycle*



Nota/Note :

Kawasan berlorek adalah kemelesetan kitaran perniagaan di Malaysia.

*Shaded areas are business cycle recession in Malaysia.*

P Puncak/Peak

T Kawah/Trough





**Jadual 4 : Indeks Komposit dan Indeks Difusi**  
**Table 4 : Composite Index and Diffusion Index**

| Tempoh<br>Period | Indeks Komposit<br>Composite Index        |                                              |                                               |                                              |                                            |                                              | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|-------------------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI) |                                              | Indeks Serentak (IS)<br>Coincident Index (CI) |                                              | Indeks Susulan (ISL)<br>Lagging Index (LG) |                                              | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | 2015=100                                  | Perubahan<br>Tahunan<br>Annual Change<br>(%) | 2015=100                                      | Perubahan<br>Tahunan<br>Annual Change<br>(%) | 2015=100                                   | Perubahan<br>Tahunan<br>Annual Change<br>(%) | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  |                                           |                                              |                                               |                                              |                                            |                                              |                                           |                                               |
| 2000             |                                           |                                              |                                               |                                              |                                            |                                              |                                           |                                               |
| Jan/Jan          | 75.1                                      | 7.7                                          | 73.6                                          | 9.2                                          | 64.3                                       | 3.0                                          | 83.3                                      | 100.0                                         |
| Feb/Feb          | 76.2                                      | 9.6                                          | 74.8                                          | 9.7                                          | 65.1                                       | 5.5                                          | 83.3                                      | 100.0                                         |
| Mac/Mar          | 76.5                                      | 10.2                                         | 74.7                                          | 7.9                                          | 65.2                                       | 4.3                                          | 83.3                                      | 100.0                                         |
| Apr/Apr          | 76.7                                      | 7.3                                          | 74.3                                          | 5.8                                          | 65.2                                       | 3.8                                          | 83.3                                      | 100.0                                         |
| Mei/May          | 76.7                                      | 6.1                                          | 75.6                                          | 7.4                                          | 65.1                                       | 3.2                                          | 100.0                                     | 100.0                                         |
| Jun/June         | 76.2                                      | 4.7                                          | 76.3                                          | 7.5                                          | 65.2                                       | 3.7                                          | 66.7                                      | 75.0                                          |
| Jul/July         | 76.5                                      | 3.9                                          | 75.9                                          | 6.3                                          | 65.9                                       | 3.6                                          | 50.0                                      | 75.0                                          |
| Ogos/Aug         | 77.1                                      | 5.0                                          | 76.7                                          | 6.8                                          | 65.9                                       | 3.6                                          | 66.7                                      | 75.0                                          |
| Sep/Sep          | 76.1                                      | 3.0                                          | 76.9                                          | 6.1                                          | 66.2                                       | 3.3                                          | 33.3                                      | 75.0                                          |
| Okt/Oct          | 76.4                                      | 3.8                                          | 76.8                                          | 6.2                                          | 66.3                                       | 3.1                                          | 33.3                                      | 75.0                                          |
| Nov/Nov          | 76.2                                      | 2.7                                          | 77.3                                          | 5.7                                          | 66.5                                       | 3.1                                          | 33.3                                      | 75.0                                          |
| Dis/Dec          | 76.1                                      | 0.0                                          | 76.8                                          | 4.2                                          | 66.8                                       | 2.5                                          | 33.3                                      | 50.0                                          |
| 2001             |                                           |                                              |                                               |                                              |                                            |                                              |                                           |                                               |
| Jan/Jan          | 75.7                                      | 0.8                                          | 76.9                                          | 4.5                                          | 66.8                                       | 3.9                                          | 33.3                                      | 50.0                                          |
| Feb/Feb          | 75.9                                      | -0.4                                         | 77.5                                          | 3.6                                          | 67.5                                       | 3.7                                          | 50.0                                      | 75.0                                          |
| Mac/Mar          | 74.6                                      | -2.5                                         | 77.7                                          | 4.0                                          | 67.4                                       | 3.4                                          | 16.7                                      | 75.0                                          |
| Apr/Apr          | 74.3                                      | -3.1                                         | 76.4                                          | 2.8                                          | 67.4                                       | 3.4                                          | 16.7                                      | 25.0                                          |
| Mei/May          | 74.3                                      | -3.1                                         | 75.8                                          | 0.3                                          | 67.9                                       | 4.3                                          | 16.7                                      | 0.0                                           |
| Jun/June         | 74.8                                      | -1.8                                         | 75.1                                          | -1.6                                         | 66.8                                       | 2.5                                          | 33.3                                      | 25.0                                          |
| Jul/July         | 74.9                                      | -2.1                                         | 75.0                                          | -1.2                                         | 67.3                                       | 2.1                                          | 50.0                                      | 0.0                                           |
| Ogos/Aug         | 74.8                                      | -3.0                                         | 75.0                                          | -2.2                                         | 67.4                                       | 2.3                                          | 33.3                                      | 25.0                                          |
| Sep/Sep          | 75.2                                      | -1.2                                         | 74.8                                          | -2.7                                         | 67.2                                       | 1.5                                          | 50.0                                      | 0.0                                           |
| Okt/Oct          | 75.5                                      | -1.2                                         | 75.0                                          | -2.3                                         | 66.9                                       | 0.9                                          | 66.7                                      | 25.0                                          |
| Nov/Nov          | 76.2                                      | 0.0                                          | 74.6                                          | -3.5                                         | 66.9                                       | 0.6                                          | 100.0                                     | 50.0                                          |
| Dis/Dec          | 75.6                                      | -0.7                                         | 73.7                                          | -4.0                                         | 67.1                                       | 0.4                                          | 50.0                                      | 0.0                                           |
| 2002             |                                           |                                              |                                               |                                              |                                            |                                              |                                           |                                               |
| Jan/Jan          | 76.4                                      | 0.9                                          | 74.0                                          | -3.8                                         | 66.6                                       | -0.3                                         | 66.7                                      | 50.0                                          |
| Feb/Feb          | 76.1                                      | 0.3                                          | 73.1                                          | -5.7                                         | 67.4                                       | -0.1                                         | 50.0                                      | 0.0                                           |
| Mac/Mar          | 76.7                                      | 2.8                                          | 73.7                                          | -5.1                                         | 68.3                                       | 1.3                                          | 83.3                                      | 25.0                                          |
| Apr/Apr          | 77.4                                      | 4.2                                          | 73.9                                          | -3.3                                         | 69.3                                       | 2.8                                          | 83.3                                      | 25.0                                          |
| Mei/May          | 77.5                                      | 4.3                                          | 74.4                                          | -1.8                                         | 68.2                                       | 0.4                                          | 66.7                                      | 50.0                                          |
| Jun/June         | 77.2                                      | 3.2                                          | 75.3                                          | 0.3                                          | 68.6                                       | 2.7                                          | 66.7                                      | 100.0                                         |
| Jul/July         | 77.6                                      | 3.6                                          | 75.7                                          | 0.9                                          | 69.2                                       | 2.8                                          | 50.0                                      | 100.0                                         |
| Ogos/Aug         | 77.6                                      | 3.7                                          | 75.6                                          | 0.8                                          | 69.9                                       | 3.7                                          | 100.0                                     | 100.0                                         |
| Sep/Sep          | 77.2                                      | 2.7                                          | 75.5                                          | 0.9                                          | 69.4                                       | 3.3                                          | 50.0                                      | 100.0                                         |
| Okt/Oct          | 77.7                                      | 2.9                                          | 75.5                                          | 0.7                                          | 69.8                                       | 4.3                                          | 83.3                                      | 100.0                                         |
| Nov/Nov          | 78.0                                      | 2.4                                          | 75.5                                          | 1.2                                          | 69.1                                       | 3.3                                          | 50.0                                      | 100.0                                         |
| Dis/Dec          | 75.8                                      | 0.3                                          | 74.7                                          | 1.4                                          | 68.4                                       | 1.9                                          | 16.7                                      | 25.0                                          |



**Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)**

*Table 4 : Composite Index and Diffusion Index (cont'd)*

| Tempoh<br>Period | Indeks Komposit<br>Composite Index                       |     |                                                          |     |                                                          |     | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|----------------------------------------------------------|-----|----------------------------------------------------------|-----|----------------------------------------------------------|-----|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI)                |     | Indeks Serentak (IS)<br>Coincident Index (CI)            |     | Indeks Susulan (ISL)<br>Lagging Index (LG)               |     | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| 2003             |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 77.2                                                     | 1.0 | 75.7                                                     | 2.3 | 70.3                                                     | 5.6 | 33.3                                      | 50.0                                          |
| Feb/Feb          | 77.8                                                     | 2.2 | 75.5                                                     | 3.3 | 69.8                                                     | 3.6 | 16.7                                      | 25.0                                          |
| Mac/Mar          | 77.0                                                     | 0.4 | 75.4                                                     | 2.3 | 69.7                                                     | 2.0 | 33.3                                      | 75.0                                          |
| Apr/Apr          | 77.4                                                     | 0.0 | 76.1                                                     | 3.0 | 70.0                                                     | 1.0 | 50.0                                      | 100.0                                         |
| Mei/May          | 77.8                                                     | 0.4 | 76.1                                                     | 2.3 | 69.8                                                     | 2.3 | 66.7                                      | 100.0                                         |
| Jun/June         | 78.2                                                     | 1.3 | 76.0                                                     | 0.9 | 69.7                                                     | 1.6 | 100.0                                     | 75.0                                          |
| Jul/July         | 78.7                                                     | 1.4 | 77.0                                                     | 1.7 | 70.2                                                     | 1.4 | 71.4                                      | 100.0                                         |
| Ogos/Aug         | 78.4                                                     | 1.0 | 76.7                                                     | 1.5 | 70.1                                                     | 0.3 | 71.4                                      | 80.0                                          |
| Sep/Sep          | 79.5                                                     | 3.0 | 76.7                                                     | 1.6 | 70.3                                                     | 1.3 | 85.7                                      | 100.0                                         |
| Okt/Oct          | 80.2                                                     | 3.2 | 77.2                                                     | 2.3 | 70.3                                                     | 0.7 | 71.4                                      | 80.0                                          |
| Nov/Nov          | 80.0                                                     | 2.6 | 77.3                                                     | 2.4 | 70.3                                                     | 1.7 | 57.1                                      | 80.0                                          |
| Dis/Dec          | 80.2                                                     | 5.8 | 78.3                                                     | 4.8 | 70.6                                                     | 3.2 | 85.7                                      | 100.0                                         |
| 2004             |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 80.6                                                     | 4.4 | 78.1                                                     | 3.2 | 71.0                                                     | 1.0 | 57.1                                      | 60.0                                          |
| Feb/Feb          | 81.5                                                     | 4.8 | 78.8                                                     | 4.4 | 70.7                                                     | 1.3 | 85.7                                      | 100.0                                         |
| Mac/Mar          | 83.2                                                     | 8.1 | 78.7                                                     | 4.4 | 70.7                                                     | 1.4 | 85.7                                      | 100.0                                         |
| Apr/Apr          | 82.1                                                     | 6.1 | 79.3                                                     | 4.2 | 71.4                                                     | 2.0 | 71.4                                      | 100.0                                         |
| Mei/May          | 82.0                                                     | 5.4 | 78.6                                                     | 3.3 | 71.2                                                     | 2.0 | 85.7                                      | 100.0                                         |
| Jun/June         | 82.7                                                     | 5.8 | 78.7                                                     | 3.6 | 71.5                                                     | 2.6 | 85.7                                      | 60.0                                          |
| Jul/July         | 82.3                                                     | 4.6 | 78.6                                                     | 2.1 | 71.4                                                     | 1.7 | 85.7                                      | 80.0                                          |
| Ogos/Aug         | 82.4                                                     | 5.1 | 78.6                                                     | 2.5 | 71.9                                                     | 2.6 | 57.1                                      | 40.0                                          |
| Sep/Sep          | 82.7                                                     | 4.0 | 78.5                                                     | 2.3 | 71.9                                                     | 2.3 | 28.6                                      | 60.0                                          |
| Okt/Oct          | 82.1                                                     | 2.4 | 78.8                                                     | 2.1 | 72.5                                                     | 3.1 | 28.6                                      | 40.0                                          |
| Nov/Nov          | 82.0                                                     | 2.5 | 78.2                                                     | 1.2 | 72.7                                                     | 3.4 | 42.9                                      | 40.0                                          |
| Dis/Dec          | 83.1                                                     | 3.6 | 79.2                                                     | 1.1 | 72.6                                                     | 2.8 | 57.1                                      | 60.0                                          |
| 2005             |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 82.6                                                     | 2.5 | 78.8                                                     | 0.9 | 72.3                                                     | 1.8 | 71.4                                      | 80.0                                          |
| Feb/Feb          | 84.1                                                     | 3.2 | 79.2                                                     | 0.5 | 72.6                                                     | 2.7 | 85.7                                      | 80.0                                          |
| Mac/Mar          | 83.5                                                     | 0.4 | 79.7                                                     | 1.3 | 72.8                                                     | 3.0 | 85.7                                      | 80.0                                          |
| Apr/Apr          | 83.4                                                     | 1.6 | 79.4                                                     | 0.1 | 73.6                                                     | 3.1 | 71.4                                      | 80.0                                          |
| Mei/May          | 83.6                                                     | 2.0 | 79.0                                                     | 0.5 | 73.7                                                     | 3.5 | 71.4                                      | 60.0                                          |
| Jun/June         | 83.5                                                     | 1.0 | 79.3                                                     | 0.8 | 74.3                                                     | 3.9 | 71.4                                      | 60.0                                          |
| Jul/July         | 84.2                                                     | 2.3 | 79.0                                                     | 0.5 | 73.6                                                     | 3.1 | 57.1                                      | 50.0                                          |
| Ogos/Aug         | 84.1                                                     | 2.1 | 79.6                                                     | 1.3 | 74.5                                                     | 3.6 | 57.1                                      | 33.3                                          |
| Sep/Sep          | 84.6                                                     | 2.3 | 80.0                                                     | 1.9 | 74.6                                                     | 3.8 | 85.7                                      | 33.3                                          |
| Okt/Oct          | 84.8                                                     | 3.3 | 80.3                                                     | 1.9 | 75.0                                                     | 3.4 | 71.4                                      | 83.3                                          |
| Nov/Nov          | 83.4                                                     | 1.7 | 80.5                                                     | 2.9 | 74.6                                                     | 2.6 | 57.1                                      | 83.3                                          |
| Dis/Dec          | 84.9                                                     | 2.2 | 80.3                                                     | 1.4 | 75.0                                                     | 3.3 | 100.0                                     | 66.7                                          |



**Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)**

*Table 4 : Composite Index and Diffusion Index (cont'd)*

| Tempoh<br>Period | Indeks Komposit<br>Composite Index                       |      |                                                          |      |                                                          |     | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|----------------------------------------------------------|------|----------------------------------------------------------|------|----------------------------------------------------------|-----|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI)                |      | Indeks Serentak (IS)<br>Coincident Index (CI)            |      | Indeks Susulan (ISL)<br>Lagging Index (LG)               |     | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |      | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |      | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  |                                                          |      |                                                          |      |                                                          |     |                                           |                                               |
| 2006             |                                                          |      |                                                          |      |                                                          |     |                                           |                                               |
| Jan/Jan          | 84.2                                                     | 1.9  | 80.4                                                     | 2.0  | 74.8                                                     | 3.5 | 42.9                                      | 83.3                                          |
| Feb/Feb          | 85.7                                                     | 1.9  | 81.8                                                     | 3.3  | 74.6                                                     | 2.8 | 71.4                                      | 83.3                                          |
| Mac/Mar          | 84.2                                                     | 0.8  | 82.2                                                     | 3.1  | 75.7                                                     | 4.0 | 28.6                                      | 66.7                                          |
| Apr/Apr          | 84.2                                                     | 1.0  | 82.3                                                     | 3.7  | 75.4                                                     | 2.4 | 28.6                                      | 66.7                                          |
| Mei/May          | 84.9                                                     | 1.6  | 82.9                                                     | 4.9  | 75.8                                                     | 2.8 | 71.4                                      | 66.7                                          |
| Jun/June         | 85.4                                                     | 2.3  | 83.5                                                     | 5.3  | 75.3                                                     | 1.3 | 57.1                                      | 100.0                                         |
| Jul/July         | 85.2                                                     | 1.2  | 83.5                                                     | 5.7  | 75.5                                                     | 2.6 | 71.4                                      | 66.7                                          |
| Ogos/Aug         | 86.4                                                     | 2.7  | 84.2                                                     | 5.8  | 75.8                                                     | 1.7 | 71.4                                      | 83.3                                          |
| Sep/Sep          | 85.8                                                     | 1.4  | 84.8                                                     | 6.0  | 75.9                                                     | 1.7 | 71.4                                      | 100.0                                         |
| Okt/Oct          | 86.6                                                     | 2.1  | 84.1                                                     | 4.7  | 76.3                                                     | 1.7 | 85.7                                      | 66.7                                          |
| Nov/Nov          | 87.4                                                     | 4.8  | 86.4                                                     | 7.3  | 76.0                                                     | 1.9 | 71.4                                      | 100.0                                         |
| Dis/Dec          | 87.4                                                     | 2.9  | 85.5                                                     | 6.5  | 76.2                                                     | 1.6 | 71.4                                      | 100.0                                         |
| 2007             |                                                          |      |                                                          |      |                                                          |     |                                           |                                               |
| Jan/Jan          | 88.5                                                     | 5.1  | 85.6                                                     | 6.5  | 76.7                                                     | 2.5 | 100.0                                     | 83.3                                          |
| Feb/Feb          | 88.8                                                     | 3.6  | 85.1                                                     | 4.0  | 76.5                                                     | 2.5 | 85.7                                      | 50.0                                          |
| Mac/Mar          | 89.3                                                     | 6.1  | 88.2                                                     | 7.3  | 76.1                                                     | 0.5 | 100.0                                     | 83.3                                          |
| Apr/Apr          | 88.9                                                     | 5.6  | 87.9                                                     | 6.8  | 77.2                                                     | 2.4 | 57.1                                      | 100.0                                         |
| Mei/May          | 89.7                                                     | 5.7  | 88.3                                                     | 6.5  | 77.4                                                     | 2.1 | 71.4                                      | 66.7                                          |
| Jun/June         | 89.2                                                     | 4.4  | 87.7                                                     | 5.0  | 78.0                                                     | 3.6 | 57.1                                      | 100.0                                         |
| Jul/July         | 90.0                                                     | 5.6  | 87.9                                                     | 5.3  | 78.1                                                     | 3.4 | 57.1                                      | 83.3                                          |
| Ogos/Aug         | 89.5                                                     | 3.6  | 87.9                                                     | 4.4  | 78.2                                                     | 3.2 | 57.1                                      | 100.0                                         |
| Sep/Sep          | 89.4                                                     | 4.2  | 88.5                                                     | 4.4  | 78.6                                                     | 3.6 | 57.1                                      | 66.7                                          |
| Okt/Oct          | 90.9                                                     | 5.0  | 88.0                                                     | 4.6  | 79.3                                                     | 3.9 | 71.4                                      | 66.7                                          |
| Nov/Nov          | 90.2                                                     | 3.2  | 89.0                                                     | 3.0  | 79.2                                                     | 4.2 | 42.9                                      | 50.0                                          |
| Dis/Dec          | 91.4                                                     | 4.6  | 89.8                                                     | 5.0  | 79.4                                                     | 4.2 | 71.4                                      | 83.3                                          |
| 2008             |                                                          |      |                                                          |      |                                                          |     |                                           |                                               |
| Jan/Jan          | 91.2                                                     | 3.1  | 87.7                                                     | 2.5  | 79.8                                                     | 4.0 | 71.4                                      | 66.7                                          |
| Feb/Feb          | 90.9                                                     | 2.4  | 87.0                                                     | 2.2  | 79.8                                                     | 4.3 | 57.1                                      | 66.7                                          |
| Mac/Mar          | 90.4                                                     | 1.2  | 86.5                                                     | -1.9 | 79.4                                                     | 4.3 | 42.9                                      | 66.7                                          |
| Apr/Apr          | 90.8                                                     | 2.1  | 86.9                                                     | -1.1 | 81.2                                                     | 5.2 | 28.6                                      | 66.7                                          |
| Mei/May          | 90.4                                                     | 0.8  | 86.2                                                     | -2.4 | 81.6                                                     | 5.4 | 28.6                                      | 50.0                                          |
| Jun/June         | 89.3                                                     | 0.1  | 85.3                                                     | -2.7 | 82.2                                                     | 5.4 | 14.3                                      | 16.7                                          |
| Jul/July         | 88.5                                                     | -1.7 | 86.0                                                     | -2.2 | 82.2                                                     | 5.2 | 14.3                                      | 16.7                                          |
| Ogos/Aug         | 87.6                                                     | -2.1 | 85.5                                                     | -2.7 | 82.3                                                     | 5.2 | 0.0                                       | 16.7                                          |
| Sep/Sep          | 88.5                                                     | -1.0 | 86.1                                                     | -2.7 | 83.9                                                     | 6.7 | 28.6                                      | 50.0                                          |
| Okt/Oct          | 87.2                                                     | -4.1 | 84.6                                                     | -3.9 | 82.8                                                     | 4.4 | 0.0                                       | 33.3                                          |
| Nov/Nov          | 86.5                                                     | -4.1 | 83.3                                                     | -6.4 | 84.1                                                     | 6.2 | 0.0                                       | 16.7                                          |
| Dis/Dec          | 84.7                                                     | -7.3 | 81.9                                                     | -8.8 | 84.3                                                     | 6.2 | 14.3                                      | 33.3                                          |





**Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)**  
**Table 4 : Composite Index and Diffusion Index (cont'd)**

| Tempoh<br>Period | Indeks Komposit<br>Composite Index                       |      |                                                          |      |                                                          |      | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|----------------------------------------------------------|------|----------------------------------------------------------|------|----------------------------------------------------------|------|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI)                |      | Indeks Serentak (IS)<br>Coincident Index (CI)            |      | Indeks Susulan (ISL)<br>Lagging Index (LG)               |      | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |      | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |      | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |      | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  |                                                          |      |                                                          |      |                                                          |      |                                           |                                               |
| 2009             |                                                          |      |                                                          |      |                                                          |      |                                           |                                               |
| Jan/Jan          | 85.2                                                     | -6.6 | 80.5                                                     | -8.2 | 82.7                                                     | 3.6  | 42.9                                      | 16.7                                          |
| Feb/Feb          | 85.4                                                     | -6.1 | 81.3                                                     | -6.6 | 82.7                                                     | 3.6  | 42.9                                      | 16.7                                          |
| Mac/Mar          | 85.7                                                     | -5.2 | 79.4                                                     | -8.2 | 82.9                                                     | 4.4  | 28.6                                      | 0.0                                           |
| Apr/Apr          | 87.8                                                     | -3.3 | 79.8                                                     | -8.2 | 81.3                                                     | 0.1  | 71.4                                      | 0.0                                           |
| Mei/May          | 88.0                                                     | -2.7 | 79.8                                                     | -7.4 | 82.2                                                     | 0.7  | 71.4                                      | 16.7                                          |
| Jun/June         | 88.8                                                     | -0.6 | 80.8                                                     | -5.3 | 82.4                                                     | 0.2  | 100.0                                     | 66.7                                          |
| Jul/July         | 89.7                                                     | 1.4  | 82.3                                                     | -4.3 | 82.6                                                     | 0.5  | 85.7                                      | 66.7                                          |
| Ogos/Aug         | 89.5                                                     | 2.2  | 82.6                                                     | -3.4 | 83.3                                                     | 1.2  | 100.0                                     | 83.3                                          |
| Sep/Sep          | 89.5                                                     | 1.1  | 82.3                                                     | -4.4 | 83.2                                                     | -0.8 | 85.7                                      | 83.3                                          |
| Okt/Oct          | 89.9                                                     | 3.1  | 83.6                                                     | -1.2 | 83.6                                                     | 1.0  | 85.7                                      | 83.3                                          |
| Nov/Nov          | 91.6                                                     | 5.9  | 83.7                                                     | 0.5  | 83.8                                                     | -0.4 | 100.0                                     | 100.0                                         |
| Dis/Dec          | 91.2                                                     | 7.7  | 84.0                                                     | 2.6  | 84.6                                                     | 0.4  | 100.0                                     | 83.3                                          |
| 2010             |                                                          |      |                                                          |      |                                                          |      |                                           |                                               |
| Jan/Jan          | 90.8                                                     | 6.6  | 85.0                                                     | 5.6  | 84.3                                                     | 1.9  | 85.7                                      | 100.0                                         |
| Feb/Feb          | 91.1                                                     | 6.7  | 85.2                                                     | 4.8  | 85.0                                                     | 2.8  | 42.9                                      | 83.3                                          |
| Mac/Mar          | 92.5                                                     | 7.9  | 86.8                                                     | 9.3  | 85.4                                                     | 3.0  | 85.7                                      | 100.0                                         |
| Apr/Apr          | 91.4                                                     | 4.1  | 86.8                                                     | 8.8  | 85.3                                                     | 4.9  | 71.4                                      | 100.0                                         |
| Mei/May          | 91.4                                                     | 3.9  | 87.4                                                     | 9.5  | 85.3                                                     | 3.8  | 42.9                                      | 100.0                                         |
| Jun/June         | 91.6                                                     | 3.2  | 87.2                                                     | 7.9  | 85.9                                                     | 4.2  | 42.9                                      | 100.0                                         |
| Jul/July         | 91.3                                                     | 1.8  | 86.9                                                     | 5.6  | 85.3                                                     | 3.3  | 71.4                                      | 66.7                                          |
| Ogos/Aug         | 92.2                                                     | 3.0  | 87.5                                                     | 5.9  | 86.2                                                     | 3.5  | 71.4                                      | 83.3                                          |
| Sep/Sep          | 92.5                                                     | 3.4  | 87.9                                                     | 6.8  | 85.9                                                     | 3.2  | 57.1                                      | 50.0                                          |
| Okt/Oct          | 92.5                                                     | 2.9  | 88.8                                                     | 6.2  | 85.6                                                     | 2.4  | 71.4                                      | 83.3                                          |
| Nov/Nov          | 93.4                                                     | 2.0  | 88.9                                                     | 6.2  | 86.0                                                     | 2.6  | 71.4                                      | 66.7                                          |
| Dis/Dec          | 94.1                                                     | 3.2  | 88.8                                                     | 5.7  | 86.1                                                     | 1.8  | 85.7                                      | 83.3                                          |
| 2011             |                                                          |      |                                                          |      |                                                          |      |                                           |                                               |
| Jan/Jan          | 93.9                                                     | 3.4  | 90.3                                                     | 6.2  | 87.5                                                     | 3.8  | 85.7                                      | 100.0                                         |
| Feb/Feb          | 93.2                                                     | 2.3  | 88.7                                                     | 4.1  | 86.6                                                     | 1.9  | 57.1                                      | 83.3                                          |
| Mac/Mar          | 93.0                                                     | 0.5  | 90.4                                                     | 4.1  | 87.4                                                     | 2.3  | 42.9                                      | 100.0                                         |
| Apr/Apr          | 92.8                                                     | 1.5  | 89.8                                                     | 3.5  | 89.0                                                     | 4.3  | 42.9                                      | 66.7                                          |
| Mei/May          | 92.9                                                     | 1.6  | 89.6                                                     | 2.5  | 88.4                                                     | 3.6  | 42.9                                      | 50.0                                          |
| Jun/June         | 93.3                                                     | 1.9  | 90.4                                                     | 3.7  | 89.3                                                     | 4.0  | 14.3                                      | 83.3                                          |
| Jul/July         | 93.0                                                     | 1.9  | 91.8                                                     | 5.6  | 89.3                                                     | 4.7  | 42.9                                      | 66.7                                          |
| Ogos/Aug         | 93.2                                                     | 1.1  | 90.7                                                     | 3.7  | 89.6                                                     | 3.9  | 57.1                                      | 66.7                                          |
| Sep/Sep          | 93.5                                                     | 1.1  | 90.2                                                     | 2.6  | 89.2                                                     | 3.8  | 57.1                                      | 50.0                                          |
| Okt/Oct          | 94.6                                                     | 2.3  | 89.9                                                     | 1.2  | 90.2                                                     | 5.4  | 71.4                                      | 66.7                                          |
| Nov/Nov          | 94.2                                                     | 0.9  | 90.4                                                     | 1.7  | 90.4                                                     | 5.1  | 42.9                                      | 66.7                                          |
| Dis/Dec          | 94.0                                                     | -0.1 | 90.5                                                     | 1.9  | 90.7                                                     | 5.3  | 42.9                                      | 50.0                                          |



**Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)**

*Table 4 : Composite Index and Diffusion Index (cont'd)*

| Tempoh<br>Period | Indeks Komposit<br>Composite Index                       |     |                                                          |     |                                                          |     | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|----------------------------------------------------------|-----|----------------------------------------------------------|-----|----------------------------------------------------------|-----|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI)                |     | Indeks Serentak (IS)<br>Coincident Index (CI)            |     | Indeks Susulan (ISL)<br>Lagging Index (LG)               |     | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| 2012             |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 94.4                                                     | 0.5 | 90.3                                                     | 0.0 | 90.4                                                     | 3.3 | 71.4                                      | 50.0                                          |
| Feb/Feb          | 96.1                                                     | 3.1 | 93.2                                                     | 5.1 | 90.5                                                     | 4.5 | 100.0                                     | 83.3                                          |
| Mac/Mar          | 95.2                                                     | 2.4 | 92.9                                                     | 2.8 | 91.8                                                     | 5.0 | 71.4                                      | 100.0                                         |
| Apr/Apr          | 94.9                                                     | 2.3 | 92.1                                                     | 2.6 | 92.4                                                     | 3.8 | 71.4                                      | 66.7                                          |
| Mei/May          | 95.2                                                     | 2.5 | 92.6                                                     | 3.3 | 92.3                                                     | 4.4 | 71.4                                      | 83.3                                          |
| Jun/June         | 95.6                                                     | 2.5 | 92.6                                                     | 2.4 | 91.9                                                     | 2.9 | 85.7                                      | 100.0                                         |
| Jul/July         | 95.2                                                     | 2.4 | 92.2                                                     | 0.4 | 91.3                                                     | 2.2 | 71.4                                      | 83.3                                          |
| Ogos/Aug         | 95.3                                                     | 2.3 | 93.0                                                     | 2.5 | 92.5                                                     | 3.2 | 28.6                                      | 50.0                                          |
| Sep/Sep          | 94.7                                                     | 1.3 | 93.0                                                     | 3.1 | 91.8                                                     | 2.9 | 28.6                                      | 83.3                                          |
| Okt/Oct          | 95.0                                                     | 0.4 | 93.0                                                     | 3.4 | 92.4                                                     | 2.4 | 57.1                                      | 66.7                                          |
| Nov/Nov          | 94.3                                                     | 0.1 | 93.8                                                     | 3.8 | 92.5                                                     | 2.3 | 28.6                                      | 83.3                                          |
| Dis/Dec          | 95.5                                                     | 1.6 | 93.5                                                     | 3.3 | 92.8                                                     | 2.3 | 28.6                                      | 83.3                                          |
| 2013             |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 95.7                                                     | 1.4 | 94.3                                                     | 4.4 | 93.1                                                     | 3.0 | 57.1                                      | 100.0                                         |
| Feb/Feb          | 97.1                                                     | 1.0 | 93.5                                                     | 0.3 | 92.7                                                     | 2.4 | 28.6                                      | 66.7                                          |
| Mac/Mar          | 98.0                                                     | 2.9 | 94.9                                                     | 2.2 | 93.8                                                     | 2.2 | 85.7                                      | 66.7                                          |
| Apr/Apr          | 98.3                                                     | 3.6 | 95.2                                                     | 3.4 | 93.2                                                     | 0.9 | 71.4                                      | 100.0                                         |
| Mei/May          | 98.3                                                     | 3.3 | 95.5                                                     | 3.1 | 93.9                                                     | 1.7 | 71.4                                      | 83.3                                          |
| Jun/June         | 97.9                                                     | 2.4 | 95.1                                                     | 2.7 | 93.9                                                     | 2.2 | 71.4                                      | 100.0                                         |
| Jul/July         | 97.5                                                     | 2.4 | 96.1                                                     | 4.2 | 94.7                                                     | 3.7 | 71.4                                      | 100.0                                         |
| Ogos/Aug         | 97.9                                                     | 2.7 | 95.6                                                     | 2.8 | 93.6                                                     | 1.2 | 85.7                                      | 100.0                                         |
| Sep/Sep          | 98.8                                                     | 4.3 | 96.1                                                     | 3.3 | 94.5                                                     | 2.9 | 71.4                                      | 66.7                                          |
| Okt/Oct          | 98.9                                                     | 4.1 | 96.5                                                     | 3.8 | 93.1                                                     | 0.8 | 85.7                                      | 66.7                                          |
| Nov/Nov          | 98.2                                                     | 4.1 | 96.8                                                     | 3.2 | 95.4                                                     | 3.1 | 57.1                                      | 66.7                                          |
| Dis/Dec          | 97.8                                                     | 2.4 | 97.5                                                     | 4.3 | 96.1                                                     | 3.6 | 42.9                                      | 100.0                                         |
| 2014             |                                                          |     |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 98.2                                                     | 2.6 | 97.0                                                     | 2.9 | 96.5                                                     | 3.7 | 71.4                                      | 66.7                                          |
| Feb/Feb          | 98.6                                                     | 1.5 | 97.3                                                     | 4.1 | 96.5                                                     | 4.1 | 57.1                                      | 83.3                                          |
| Mac/Mar          | 98.2                                                     | 0.2 | 96.2                                                     | 1.4 | 96.8                                                     | 3.2 | 28.6                                      | 83.3                                          |
| Apr/Apr          | 99.6                                                     | 1.3 | 97.8                                                     | 2.7 | 98.5                                                     | 5.7 | 57.1                                      | 83.3                                          |
| Mei/May          | 99.4                                                     | 1.1 | 97.7                                                     | 2.3 | 97.5                                                     | 3.8 | 85.7                                      | 66.7                                          |
| Jun/June         | 98.9                                                     | 1.0 | 98.2                                                     | 3.3 | 97.8                                                     | 4.2 | 71.4                                      | 66.7                                          |
| Jul/July         | 99.7                                                     | 2.3 | 98.3                                                     | 2.3 | 97.3                                                     | 2.7 | 57.1                                      | 66.7                                          |
| Ogos/Aug         | 99.7                                                     | 1.8 | 99.2                                                     | 3.8 | 97.9                                                     | 4.6 | 85.7                                      | 66.7                                          |
| Sep/Sep          | 100.4                                                    | 1.6 | 99.0                                                     | 3.0 | 97.8                                                     | 3.5 | 85.7                                      | 83.3                                          |
| Okt/Oct          | 99.7                                                     | 0.8 | 99.1                                                     | 2.7 | 98.5                                                     | 5.8 | 57.1                                      | 83.3                                          |
| Nov/Nov          | 100.5                                                    | 2.3 | 99.1                                                     | 2.4 | 97.9                                                     | 2.6 | 85.7                                      | 66.7                                          |
| Dis/Dec          | 101.0                                                    | 3.3 | 99.6                                                     | 2.2 | 97.7                                                     | 1.7 | 71.4                                      | 83.3                                          |



**Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)**

*Table 4 : Composite Index and Diffusion Index (cont'd)*

| Tempoh<br>Period | Indeks Komposit<br>Composite Index                       |      |                                                          |     |                                                          |     | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|----------------------------------------------------------|------|----------------------------------------------------------|-----|----------------------------------------------------------|-----|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI)                |      | Indeks Serentak (IS)<br>Coincident Index (CI)            |     | Indeks Susulan (ISL)<br>Lagging Index (LG)               |     | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |      | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Perubahan<br>2015=100<br>Tahunan<br>Annual Change<br>(%) |     | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  |                                                          |      |                                                          |     |                                                          |     |                                           |                                               |
| 2015             |                                                          |      |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 100.3                                                    | 2.1  | 100.2                                                    | 3.3 | 98.9                                                     | 2.5 | 71.4                                      | 83.3                                          |
| Feb/Feb          | 99.8                                                     | 1.2  | 99.8                                                     | 2.6 | 98.9                                                     | 2.5 | 57.1                                      | 50.0                                          |
| Mac/Mar          | 101.1                                                    | 3.0  | 100.5                                                    | 4.5 | 99.8                                                     | 3.1 | 42.9                                      | 83.3                                          |
| Apr/Apr          | 100.8                                                    | 1.2  | 99.8                                                     | 2.0 | 98.5                                                     | 0.0 | 57.1                                      | 83.3                                          |
| Mei/May          | 99.4                                                     | 0.0  | 99.4                                                     | 1.7 | 99.6                                                     | 2.2 | 28.6                                      | 50.0                                          |
| Jun/June         | 99.8                                                     | 0.9  | 99.6                                                     | 1.4 | 99.8                                                     | 2.0 | 14.3                                      | 50.0                                          |
| Jul/July         | 100.3                                                    | 0.6  | 98.9                                                     | 0.6 | 100.0                                                    | 2.8 | 57.1                                      | 33.3                                          |
| Ogos/Aug         | 99.1                                                     | -0.6 | 99.8                                                     | 0.6 | 99.6                                                     | 1.7 | 14.3                                      | 50.0                                          |
| Sep/Sep          | 100.0                                                    | -0.4 | 100.2                                                    | 1.2 | 100.4                                                    | 2.7 | 14.3                                      | 50.0                                          |
| Okt/Oct          | 99.9                                                     | 0.2  | 100.5                                                    | 1.4 | 101.4                                                    | 2.9 | 14.3                                      | 66.7                                          |
| Nov/Nov          | 99.6                                                     | -0.9 | 100.5                                                    | 1.4 | 101.9                                                    | 4.1 | 42.9                                      | 66.7                                          |
| Dis/Dec          | 99.8                                                     | -1.2 | 100.8                                                    | 1.2 | 101.2                                                    | 3.6 | 42.9                                      | 66.7                                          |
| 2016             |                                                          |      |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 99.3                                                     | -1.0 | 101.9                                                    | 1.7 | 100.5                                                    | 1.6 | 42.9                                      | 83.3                                          |
| Feb/Feb          | 98.7                                                     | -1.1 | 102.0                                                    | 2.2 | 101.0                                                    | 2.1 | 71.4                                      | 66.7                                          |
| Mac/Mar          | 99.0                                                     | -2.1 | 101.8                                                    | 1.3 | 100.7                                                    | 0.9 | 57.1                                      | 83.3                                          |
| Apr/Apr          | 98.2                                                     | -2.6 | 101.4                                                    | 1.6 | 100.5                                                    | 2.0 | 28.6                                      | 66.7                                          |
| Mei/May          | 98.8                                                     | -0.6 | 101.3                                                    | 1.9 | 100.5                                                    | 0.9 | 57.1                                      | 50.0                                          |
| Jun/June         | 99.5                                                     | -0.3 | 102.3                                                    | 2.7 | 101.7                                                    | 1.9 | 57.1                                      | 83.3                                          |
| Jul/July         | 97.9                                                     | -2.4 | 101.5                                                    | 2.6 | 100.4                                                    | 0.4 | 42.9                                      | 50.0                                          |
| Ogos/Aug         | 99.3                                                     | 0.2  | 102.3                                                    | 2.5 | 102.5                                                    | 2.9 | 42.9                                      | 50.0                                          |
| Sep/Sep          | 99.3                                                     | -0.7 | 103.5                                                    | 3.3 | 103.1                                                    | 2.7 | 42.9                                      | 100.0                                         |
| Okt/Oct          | 98.6                                                     | -1.3 | 103.5                                                    | 3.0 | 102.4                                                    | 1.0 | 57.1                                      | 100.0                                         |
| Nov/Nov          | 98.2                                                     | -1.4 | 103.8                                                    | 3.3 | 103.2                                                    | 1.3 | 42.9                                      | 100.0                                         |
| Dis/Dec          | 99.5                                                     | -0.3 | 104.2                                                    | 3.4 | 103.8                                                    | 2.6 | 57.1                                      | 100.0                                         |
| 2017             |                                                          |      |                                                          |     |                                                          |     |                                           |                                               |
| Jan/Jan          | 99.9                                                     | 0.6  | 103.8                                                    | 1.9 | 103.6                                                    | 3.1 | 71.4                                      | 83.3                                          |
| Feb/Feb          | 100.0                                                    | 1.3  | 104.7                                                    | 2.6 | 104.0                                                    | 3.0 | 71.4                                      | 83.3                                          |
| Mac/Mar          | 100.9                                                    | 1.9  | 105.2                                                    | 3.3 | 105.0                                                    | 4.3 | 85.7                                      | 50.0                                          |
| Apr/Apr          | 99.7                                                     | 1.5  | 105.7                                                    | 4.2 | 105.7                                                    | 5.2 | 57.1                                      | 83.3                                          |
| Mei/May          | 100.9                                                    | 2.1  | 106.5                                                    | 5.1 | 104.9                                                    | 4.4 | 85.7                                      | 100.0                                         |
| Jun/June         | 100.2                                                    | 0.7  | 106.7                                                    | 4.3 | 105.9                                                    | 4.1 | 57.1                                      | 83.3                                          |
| Jul/July         | 100.8                                                    | 3.0  | 107.2                                                    | 5.6 | 106.0                                                    | 5.6 | 71.4                                      | 100.0                                         |
| Ogos/Aug         | 102.0                                                    | 2.7  | 107.2                                                    | 4.8 | 107.2                                                    | 4.6 | 71.4                                      | 83.3                                          |
| Sep/Sep          | 102.1                                                    | 2.8  | 107.2                                                    | 3.6 | 105.9                                                    | 2.7 | 71.4                                      | 100.0                                         |
| Okt/Oct          | 101.9                                                    | 3.3  | 107.3                                                    | 3.7 | 107.3                                                    | 4.8 | 85.7                                      | 100.0                                         |
| Nov/Nov          | 102.6                                                    | 4.5  | 107.7                                                    | 3.8 | 107.2                                                    | 3.9 | 71.4                                      | 100.0                                         |
| Dis/Dec          | 101.4                                                    | 1.9  | 107.8                                                    | 3.5 | 107.6                                                    | 3.7 | 85.7                                      | 100.0                                         |



**Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)**

*Table 4 : Composite Index and Diffusion Index (cont'd)*

| Tempoh<br>Period | Indeks Komposit<br>Composite Index           |      |                                               |       |                                              |      | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|----------------------------------------------|------|-----------------------------------------------|-------|----------------------------------------------|------|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI)    |      | Indeks Serentak (IS)<br>Coincident Index (CI) |       | Indeks Susulan (ISL)<br>Lagging Index (LG)   |      | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | Perubahan<br>Tahunan<br>Annual Change<br>(%) |      | Perubahan<br>Tahunan<br>Annual Change<br>(%)  |       | Perubahan<br>Tahunan<br>Annual Change<br>(%) |      | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  | 2015=100                                     |      | 2015=100                                      |       | 2015=100                                     |      |                                           |                                               |
| 2018             |                                              |      |                                               |       |                                              |      |                                           |                                               |
| Jan/Jan          | 102.3                                        | 2.4  | 107.4                                         | 3.5   | 109.1                                        | 5.3  | 71.4                                      | 66.7                                          |
| Feb/Feb          | 102.2                                        | 2.2  | 108.8                                         | 3.9   | 108.9                                        | 4.7  | 57.1                                      | 66.7                                          |
| Mac/Mar          | 102.2                                        | 1.3  | 109.8                                         | 4.4   | 110.5                                        | 5.2  | 42.9                                      | 83.3                                          |
| Apr/Apr          | 102.0                                        | 2.3  | 110.7                                         | 4.7   | 111.4                                        | 5.4  | 57.1                                      | 100.0                                         |
| Mei/May          | 100.7                                        | -0.2 | 110.1                                         | 3.4   | 111.1                                        | 5.9  | 14.3                                      | 100.0                                         |
| Jun/June         | 100.8                                        | 0.6  | 110.0                                         | 3.1   | 110.3                                        | 4.2  | 28.6                                      | 83.3                                          |
| Jul/July         | 100.6                                        | -0.2 | 110.1                                         | 2.7   | 111.7                                        | 5.4  | 28.6                                      | 100.0                                         |
| Ogos/Aug         | 100.9                                        | -1.1 | 110.2                                         | 2.8   | 112.1                                        | 4.6  | 14.3                                      | 83.3                                          |
| Sep/Sep          | 100.0                                        | -2.1 | 111.3                                         | 3.8   | 111.5                                        | 5.3  | 14.3                                      | 83.3                                          |
| Okt/Oct          | 100.3                                        | -1.6 | 111.4                                         | 3.8   | 113.6                                        | 5.9  | 28.6                                      | 66.7                                          |
| Nov/Nov          | 100.3                                        | -2.2 | 110.6                                         | 2.7   | 113.5                                        | 5.9  | 57.1                                      | 83.3                                          |
| Dis/Dec          | 99.3                                         | -2.1 | 110.8                                         | 2.8   | 113.3                                        | 5.3  | 0.0                                       | 66.7                                          |
| 2019             |                                              |      |                                               |       |                                              |      |                                           |                                               |
| Jan/Jan          | 100.9                                        | -1.4 | 111.6                                         | 3.9   | 114.5                                        | 4.9  | 57.1                                      | 66.7                                          |
| Feb/Feb          | 99.0                                         | -3.1 | 112.8                                         | 3.7   | 116.0                                        | 6.5  | 14.3                                      | 83.3                                          |
| Mac/Mar          | 100.4                                        | -1.8 | 112.6                                         | 2.6   | 113.7                                        | 2.9  | 71.4                                      | 83.3                                          |
| Apr/Apr          | 102.8                                        | 0.8  | 114.6                                         | 3.5   | 114.5                                        | 2.8  | 100.0                                     | 100.0                                         |
| Mei/May          | 100.8                                        | 0.1  | 114.3                                         | 3.8   | 115.1                                        | 3.6  | 57.1                                      | 100.0                                         |
| Jun/June         | 100.1                                        | -0.7 | 112.6                                         | 2.4   | 113.4                                        | 2.8  | 71.4                                      | 83.3                                          |
| Jul/July         | 101.2                                        | 0.6  | 112.0                                         | 1.7   | 114.9                                        | 2.9  | 57.1                                      | 66.7                                          |
| Ogos/Aug         | 100.5                                        | -0.4 | 112.6                                         | 2.2   | 115.3                                        | 2.9  | 57.1                                      | 83.3                                          |
| Sep/Sep          | 100.6                                        | 0.6  | 113.5                                         | 2.0   | 114.9                                        | 3.0  | 42.9                                      | 66.7                                          |
| Okt/Oct          | 102.5                                        | 2.2  | 113.5                                         | 1.9   | 115.5                                        | 1.7  | 28.6                                      | 50.0                                          |
| Nov/Nov          | 101.8                                        | 1.5  | 113.2                                         | 2.4   | 115.2                                        | 1.5  | 57.1                                      | 50.0                                          |
| Dis/Dec          | 101.5                                        | 2.2  | 112.9                                         | 1.9   | 116.2                                        | 2.6  | 57.1                                      | 66.7                                          |
| 2020             |                                              |      |                                               |       |                                              |      |                                           |                                               |
| Jan/Jan          | 101.7                                        | 0.8  | 113.5                                         | 1.7   | 115.9                                        | 1.2  | 57.1                                      | 66.7                                          |
| Feb/Feb          | 102.5                                        | 3.5  | 116.7                                         | 3.5   | 115.4                                        | -0.5 | 85.7                                      | 83.3                                          |
| Mac/Mar          | 96.6                                         | -3.8 | 110.0                                         | -2.3  | 107.9                                        | -5.1 | 14.3                                      | 50.0                                          |
| Apr/Apr          | 96.6                                         | -6.0 | 95.9                                          | -16.3 | 118.8                                        | 3.8  | 28.6                                      | 0.0                                           |
| Mei/May          | 101.6                                        | 0.8  | 103.5                                         | -9.4  | 123.1                                        | 7.0  | 42.9                                      | 0.0                                           |
| Jun/June         | 105.1                                        | 5.0  | 109.9                                         | -2.4  | 123.1                                        | 8.6  | 42.9                                      | 33.3                                          |
| Jul/July         | 109.4                                        | 8.1  | 109.5                                         | -2.2  | 124.5                                        | 8.4  | 71.4                                      | 33.3                                          |
| Ogos/Aug         | 108.7                                        | 8.2  | 110.0                                         | -2.3  | 124.8                                        | 8.2  | 42.9                                      | 0.0                                           |
| Sep/Sep          | 109.8                                        | 9.1  | 112.1                                         | -1.2  | 126.5                                        | 10.1 | 100.0                                     | 66.7                                          |
| Okt/Oct          | 109.2                                        | 6.5  | 111.0                                         | -2.2  | 124.4                                        | 7.7  | 100.0                                     | 100.0                                         |
| Nov/Nov          | 109.4                                        | 7.5  | 111.0                                         | -1.9  | 124.6                                        | 8.2  | 85.7                                      | 100.0                                         |
| Dis/Dec          | 109.2                                        | 7.6  | 111.4                                         | -1.3  | 125.4                                        | 7.9  | 71.4                                      | 66.7                                          |



**Jadual 4 : Indeks Komposit dan Indeks Difusi (samb.)**

*Table 4 : Composite Index and Diffusion Index (cont'd)*

| Tempoh<br>Period | Indeks Komposit<br>Composite Index           |      |                                               |      |                                              |      | Indeks Difusi<br>Diffusion Index          |                                               |
|------------------|----------------------------------------------|------|-----------------------------------------------|------|----------------------------------------------|------|-------------------------------------------|-----------------------------------------------|
|                  | Indeks Pelopor (IP)<br>Leading Index (LI)    |      | Indeks Serentak (IS)<br>Coincident Index (CI) |      | Indeks Susulan (ISL)<br>Lagging Index (LG)   |      | Indeks Pelopor (IP)<br>Leading Index (LI) | Indeks Serentak (IS)<br>Coincident Index (CI) |
|                  | Perubahan<br>Tahunan<br>Annual Change<br>(%) |      | Perubahan<br>Tahunan<br>Annual Change<br>(%)  |      | Perubahan<br>Tahunan<br>Annual Change<br>(%) |      | Peratus (%)<br>Per cent (%)               | Peratus (%)<br>Per cent (%)                   |
|                  | 2015=100                                     |      | 2015=100                                      |      | 2015=100                                     |      |                                           |                                               |
| 2021             |                                              |      |                                               |      |                                              |      |                                           |                                               |
| Jan/Jan          | 110.1                                        | 8.3  | 111.0                                         | -2.2 | 123.8                                        | 6.8  | 57.1                                      | 66.7                                          |
| Feb/Feb          | 111.2                                        | 8.5  | 114.4                                         | -2.0 | 125.4                                        | 8.7  | 71.4                                      | 83.3                                          |
| Mac/Mar          | 113.2                                        | 17.2 | 114.5                                         | 4.1  | 127.1                                        | 17.8 | 85.7                                      | 66.7                                          |
| Apr/Apr          | 111.7                                        | 15.6 | 115.3                                         | 20.2 | 127.5                                        | 7.3  | 57.1                                      | 66.7                                          |
| Mei/May          | 108.7                                        | 7.0  | 113.8                                         | 10.0 | 127.2                                        | 3.3  | 71.4                                      | 66.7                                          |
| Jun/June         | 105.6                                        | 0.5  | 106.5                                         | -3.1 | 118.7                                        | -3.6 | 28.6                                      | 33.3                                          |
| Jul/July         | 105.0                                        | -4.0 | 103.8                                         | -5.2 | 124.4                                        | -0.1 | 28.6                                      | 16.7                                          |
| Ogos/Aug         | 106.2                                        | -2.3 | 108.2                                         | -1.6 | 125.6                                        | 0.6  | 14.3                                      | 0.0                                           |
| Sep/Sep          | 110.5                                        | 0.6  | 112.4                                         | 0.3  | 130.2                                        | 2.9  | 14.3                                      | 33.3                                          |
| Okt/Oct          | 109.5                                        | 0.3  | 113.3                                         | 2.1  | 129.4                                        | 4.0  | 42.9                                      | 50.0                                          |
| Nov/Nov          | 111.2                                        | 1.6  | 114.3                                         | 3.0  | 129.9                                        | 4.3  | 71.4                                      | 83.3                                          |
| Dis/Dec          | 111.5                                        | 2.1  | 113.9                                         | 2.2  | 131.5                                        | 4.9  | 71.4                                      | 100.0                                         |

### PENGASASAN SEMULA INDEKS PELOPOR, SERENTAK & SUSULAN MALAYSIA KEPADA TAHUN ASAS 2015

#### 1.0 PENGENALAN

- 1.1 Penunjuk Ekonomi Malaysia yang terdiri daripada Indeks Pelopor, Serentak dan Susulan telah diasaskan semula kepada tahun 2015 berbanding tahun 2005. Pengasasan semula ini dilaksanakan bagi menambahbaik konsep dan metodologi penyusunan selaras dengan amalan terbaik antarabangsa.
- 1.2 Pengasasan semula indeks kepada tahun asas 2015 dilaksanakan meliputi beberapa perkara iaitu:
  - i. Penambahbaikan ujian pelarasan musim menggunakan pakej standard pelarasan bermusim. Pelarasan bermusim telah dilaksanakan bagi data siri masa terdahulu sehingga terkini.
  - ii. Penambahbaikan kerangka penyusunan indeks.

#### 2.0 OBJEKTIF

Objektif utama Penunjuk Ekonomi Malaysia adalah untuk memantau prestasi ekonomi Malaysia secara bulanan dan membantu penggubal dasar, pelabur, penyelidik serta masyarakat umum untuk menilai prestasi ekonomi.

#### 3.0 SUMBER DATA

Data bagi penyediaan Indeks Komposit dan Indeks Difusi diperoleh daripada Jabatan Perangkaan Malaysia serta agensi berikut:

- i. Kementerian Perumahan dan Kerajaan Tempatan (KPKT);
- ii. Bank Negara Malaysia (BNM);
- iii. Jabatan Pengangkutan Jalan (JPJ);
- iv. Lembaga Pembangunan Pelaburan Malaysia (MIDA); dan
- v. Kumpulan Wang Simpanan Pekerja (KWSP).

#### 4.0 METODOLOGI

- 4.1 Pemilihan setiap komponen bagi Indeks Komposit adalah mengikut garis panduan yang terkandung dalam *Business Cycle Indicators Handbook*<sup>1</sup> iaitu:
  - i. **Keakuran terhadap kitaran perniagaan**  
Data siri yang dipilih perlu seiring dengan kitaran perniagaan.
  - ii. **Konsisten terhadap fungsi indeks**  
Data siri perlu sentiasa berfungsi secara konsisten sama ada sebagai indeks pelopor, serentak atau susulan.
  - iii. **Signifikan terhadap ekonomi**  
Data siri yang dipilih perlu menyumbang secara signifikan kepada aktiviti ekonomi.
  - iv. **Kecukupan statistik**  
Data mestilah dikumpul dan diproses dengan menggunakan kaedah statistik yang diprakeru.
  - v. **Kelicinan**  
Pergerakan data siri masa bulan ke bulan mestilah licin dan tidak banyak elemen ketidaktentuan.
  - vi. **Ketepatan**  
Komponen yang terpilih mestilah mempunyai data siri yang bertepatan masa, tepat dan terkini untuk menghasilkan penunjuk yang berguna kepada analisis semasa.
- 4.2 Data siri masa yang terpilih perlu menjalani ujian pelarasan musim bagi mengeluarkan pengaruh musim terhadap data siri tersebut.

<sup>1</sup> McGuckin R.H. *et al.* (2000) *Business Cycle Indicators Handbook*. The Conference Board, United States.

### 5.0 KONSEP DAN DEFINISI

#### 5.1 Indeks Komposit

Indeks Komposit merupakan gabungan komponen individu yang digunakan untuk mengukur gelagat kitaran ekonomi. Kebaikan Indeks Komposit berbanding analisis komponen individu ialah ianya dapat mengeluarkan pengaruh ketidakstabilan sesuatu komponen. Pada umumnya, Indeks Komposit lebih berupaya menghasilkan isyarat titik pusing yang jelas dan konsisten berbanding penunjuk secara individu. Terdapat tiga jenis Indeks Komposit dalam Penunjuk Ekonomi Malaysia iaitu indeks pelopor, serentak dan susulan.

i. **Indeks Pelopor (IP)**

Indeks Pelopor merupakan ukuran jangkaan keseluruhan aktiviti ekonomi untuk masa hadapan. Indeks ini memberitahu kita ke mana arah tuju ekonomi.

ii. **Indeks Serentak (IS)**

Indeks Serentak merupakan ukuran komprehensif terhadap prestasi keseluruhan ekonomi semasa.

iii. **Indeks Susulan (ISL)**

Indeks Susulan berfungsi sebagai pengesah kepada isyarat Indeks Pelopor dan Indeks Serentak.

#### 5.2 Indeks Difusi

Indeks Difusi adalah pelengkap kepada Indeks Komposit. Ia digunakan untuk membantu membuat keputusan terutamanya dalam penentuan titik pusing kitaran ekonomi.

Nilai 100 bagi Indeks Difusi menunjukkan semua komponen meningkat dan nilai sifar bermaksud semua komponen mengalami penurunan. Sebagai contoh, nilai Indeks Difusi pada 85 mata bagi IP menunjukkan bahawa 85 peratus komponen IP meningkat pada bulan berkenaan.



## 5.3 Kitaran Perniagaan

Kitaran perniagaan merujuk kepada turun naik aktiviti ekonomi agregat seperti pengeluaran, pendapatan, guna tenaga, perdagangan dan sebagainya. Terdapat 2 fasa utama kitaran perniagaan iaitu fasa pengembangan dan kemelesetan.

Peningkatan dari titik kawah ke puncak ditakrifkan sebagai fasa pengembangan manakala penurunan dari titik puncak ke kawah ditakrifkan sebagai fasa kemelesetan. Fasa kemelesetan kitaran perniagaan ditentukan oleh kejatuhan Indeks Komposit Serentak sekurang-kurangnya enam bulan secara berturut-turut.

Sebagai contoh, Paparan 1 menunjukkan puncak bagi kitaran kelima Indeks Serentak pada Januari 2008 menandakan bermulanya fasa kemelesetan ekonomi dan kawah pada Mac 2009 menandakan berakhirnya fasa kemelesetan atau bermulanya fasa pengembangan ekonomi.

**Paparan 1: Tempoh Rujukan Kitaran Perniagaan Malaysia**

| Kitaran Penuh (Bulan) | Tempoh Rujukan  | Kawah ke Puncak (Bulan) | Puncak ke Kawah (Bulan) | Tempoh Rujukan  |
|-----------------------|-----------------|-------------------------|-------------------------|-----------------|
| Kitaran Pertama ( - ) | Jul 74          |                         | 7                       | Jul 74 - Feb 75 |
| Kitaran Kedua (131)   | Feb 75 - Jan 85 | 119                     | 12                      | Jan 85 - Jan 86 |
| Kitaran Ketiga (154)  | Jan 86 - Dis 97 | 143                     | 11                      | Dis 97 - Nov 98 |
| Kitaran Keempat (39)  | Nov 98 - Feb 01 | 27                      | 12                      | Feb 01 - Feb 02 |
| Kitaran Kelima (85)   | Feb 02 - Jan 08 | 71                      | 14                      | Jan 08 - Mac 09 |
| Kitaran Keenam ( - )  | Mac 09 - Feb 20 | 131                     |                         | Feb 20          |
| Purata                |                 | 98                      | 11                      |                 |

## 5.4 Kitaran Pertumbuhan

Kitaran pertumbuhan ialah turun naik aktiviti ekonomi agregat di sepanjang arah aliran jangka panjangnya. Arah aliran jangka panjang aktiviti ekonomi agregat dianggarkan menggunakan kaedah *Hodrick Prescott Filter* terhadap Indeks Serentak. Kitaran pertumbuhan dihasilkan melalui penyisihan indeks daripada arah aliran jangka panjangnya.

Puncak kitaran pertumbuhan bermaksud berakhirnya fasa kenaikan dan bermulanya fasa penurunan pertumbuhan ekonomi. Sementara kawah bagi kitaran pertumbuhan menunjukkan berakhirnya fasa penurunan atau bermulanya fasa kenaikan pertumbuhan ekonomi.

Sebagai contoh, Paparan 2 menunjukkan titik puncak bagi kitaran kesembilan pada bulan April 2004 menandakan bahawa ekonomi telah memasuki fasa pertumbuhan perlahan dan kawah bagi kitaran pertumbuhan pada November 2005 menunjukkan bermulanya fasa pertumbuhan tinggi.

## Paparan 2: Tempoh Rujukan Kitaran Pertumbuhan Malaysia

| Kitaran Penuh (Bulan)    | Tempoh Rujukan  | Kawah ke Puncak (Bulan) | Puncak ke Kawah (Bulan) | Tempoh Rujukan  |
|--------------------------|-----------------|-------------------------|-------------------------|-----------------|
| Kitaran Pertama (25)     | Feb 73 - Mei 74 | 15                      | 10                      | Mei 74 - Mac 75 |
| Kitaran Kedua (28)       | Mac 75 - Nov 76 | 20                      | 8                       | Nov 76 - Jul 77 |
| Kitaran Ketiga (64)      | Jul 77 - Jul 81 | 48                      | 16                      | Jul 81 - Nov 82 |
| Kitaran Keempat (50)     | Nov 82 - Jan 85 | 26                      | 24                      | Jan 85 - Jan 87 |
| Kitaran Kelima (39)      | Jan 87 - Okt 88 | 21                      | 18                      | Okt 88 - Apr 90 |
| Kitaran Keenam (33)      | Apr 90 - Jan 92 | 21                      | 12                      | Jan 92 - Jan 93 |
| Kitaran Ketujuh (72)     | Jan 93 - Jan 98 | 60                      | 12                      | Jan 98 - Jan 99 |
| Kitaran Kelapan (37)     | Jan 99 - Ogo 00 | 19                      | 18                      | Ogo 00 - Feb 02 |
| Kitaran Kesembilan (45)  | Feb 02 - Apr 04 | 26                      | 19                      | Apr 04 - Nov 05 |
| Kitaran Kesepuluh (40)   | Nov 05 - Jan 08 | 26                      | 14                      | Jan 08 - Mac 09 |
| Kitaran Kesebelas (40)   | Mac 09 - Jul 11 | 28                      | 12                      | Jul 11 - Jul 12 |
| Kitaran Keduabelas (46)  | Jul 12 - Mac 15 | 32                      | 14                      | Mac 15 - Mei 16 |
| Kitaran Ketigabelas (47) | Mei 16 - Apr 19 | 35                      | 12                      | Apr 19 - Apr 20 |
| Purata                   |                 | 29                      | 15                      |                 |

## 6.0 KEKANGAN PENUNJUK EKONOMI MALAYSIA

Terdapat beberapa kekangan Penunjuk Ekonomi Malaysia yang perlu diambil perhatian oleh pengguna:

- Indeks Pelopor tidak dapat mengukur atau meramal perubahan magnitud dalam aktiviti ekonomi. Indeks ini hanya menunjukkan arah tuju ekonomi di masa hadapan.
- Indeks Serentak tidak menggambarkan tahap situasi ekonomi semasa. Justeru itu, ia tidak boleh ditafsirkan sebagai aras Keluaran Dalam Negeri Kasar (KDNK) semasa bulanan.
- Sistem penunjuk ekonomi tidak berupaya untuk mengambil kira kejutan pengaruh dalaman atau/dan luaran kepada ekonomi.

## REBASING MALAYSIA LEADING, COINCIDENT & LAGGING INDEXES TO THE BASE YEAR 2015

### 1.0 INTRODUCTION

- 1.1 The Malaysian Economic Indicators consisting Leading, Coincident and Lagging Indexes were rebased to year 2015 from 2005. This rebasing was implemented to improve compilation concepts and methodologies in line with international best practices.
- 1.2 The rebasing of the index to the base year 2015 was implemented by including the following:
  - i. Improvement of seasonal adjustment test using seasonal adjustment standard package. The seasonal adjustments have been made to past and current time series data.
  - ii. Improvement of index framework.

### 2.0 OBJECTIVES

The main objectives of Malaysian Economic Indicators are to monitor Malaysian economic performance on a monthly basis and to assist the policy makers, investors, researchers as well as the public to assess the economic performance.

### 3.0 SOURCES OF DATA

Data for the compilation of Composite and Diffusion Indexes is obtained from the Department of Statistics Malaysia and the following agencies:

- i. Ministry of Housing and Local Government (MHLG);
- ii. Bank Negara Malaysia (BNM);
- iii. Road Transport Department (RTD);
- iv. Malaysian Investment Development Authority (MIDA); and
- v. Employees Provident Fund (EPF).

### 4.0 METHODOLOGY

- 4.1 Selection of each component for the Composite Index is based on the guideline in the Business Cycle Indicators Handbook<sup>1</sup> namely:
  - i. **Conformity to business cycle**  
The selected data series must conform to the business cycle.
  - ii. **Consistent timing**  
The data series must exhibit a consistent timing pattern over time as leading, coincident or lagging indexes.
  - iii. **Economic significance**  
The selected data series must significantly contribute to the economy.
  - iv. **Statistical adequacy**  
Data must be collected and processed in a statistically reliable manner.
  - v. **Smoothness**  
The month to month movements of the data series must not be too erratic.
  - vi. **Promptness**  
The selected components must be timely, accurate and updated to contribute to the current analysis.
- 4.2 The selected time series data are seasonally adjusted to remove the seasonal influences of the data series.

<sup>1</sup> McGuckin R.H. et al. (2000) Business Cycle Indicators Handbook. The Conference Board, United States.

## 5.0 CONCEPTS AND DEFINITIONS

### 5.1 Composite Index

*The Composite Index is the combination of individual indicators which measures the economic cycles behaviour. The advantage of Composite Index compared to individual analysis is the tendency to smooth out some of the volatility of the series. The Composite Index is generally more reliable in generating clear and consistent turning points than individual indicators. There are three types of Composite Index in the Malaysian Economic Indicators, i.e. leading, coincident and lagging indexes.*

**i. Leading Index (LI)**

*The Leading Index measures anticipations of the overall economic activity in the months ahead. The index tells us where the economy is going.*

**ii. Coincident Index (CI)**

*The Coincident Index is a comprehensive measure of the overall current economic performance.*

**iii. Lagging Index (LG)**

*The Lagging Index is to validate the signal of the Leading and Coincident Indexes.*

### 5.2 Diffusion Index

*The Diffusion Index is a complement to the Composite Index. It is used to assist in making a decision especially in determining turning point of economic cycle.*

*The value of 100 for Diffusion Index implies that all components are increasing and the value of zero shows that all components are decreasing. For example, the Diffusion Index of 85 points for the LI shows that 85 per cent of LI components are increasing for that particular month.*

## 5.3 Business Cycle

Business cycle is a fluctuation of the aggregated economic activity such as production, income, employment, trade and etc. There are two main phases of business cycle namely expansion and recession phases.

The upward movement from trough to peak is defined as expansion phase meanwhile the downward movement from peak to trough is classified as recession phase. The phase of business cycle recession is determined by declining of the Coincident Composite Index for at least six months successively.

For example, Exhibit 1 shows that the peak of the fifth cycle of Coincident Index in January 2008 indicates the beginning of business cycle recession and the trough in March 2009 indicates the end of recession phase or the beginning of economic expansion phase.

**Exhibit 1: Malaysian Business Cycles Reference Periods**

| Full Cycles (Month) | Reference Periods | Trough to Peak (Month) | Peak to Trough (Month) | Reference Periods |
|---------------------|-------------------|------------------------|------------------------|-------------------|
| First Cycle ( - )   | Jul 74            |                        | 7                      | Jul 74 - Feb 75   |
| Second Cycle (131)  | Feb 75 - Jan 85   | 119                    | 12                     | Jan 85 - Jan 86   |
| Third Cycle (154)   | Jan 86 - Dec 97   | 143                    | 11                     | Dec 97 - Nov 98   |
| Fourth Cycle (39)   | Nov 98 - Feb 01   | 27                     | 12                     | Feb 01 - Feb 02   |
| Fifth Cycle (85)    | Feb 02 - Jan 08   | 71                     | 14                     | Jan 08 - Mar 09   |
| Sixth Cycle ( - )   | Mar 09 - Feb 20   | 131                    |                        | Feb 20            |
| Average             |                   | 98                     | 11                     |                   |

## 5.4 Growth Cycle

The growth cycle is a fluctuation of the aggregated economic activity along its long term trend. The long term trend of the aggregated economic activity is estimated using the Hodrick Prescott Filter method on the Coincident Index. The growth cycle is generated through the deviation of the index from its long term trend.

The peak of growth cycle reflects the end of the upswing and the beginning of downswing phase of economic growth. Meanwhile trough for growth cycle indicates the end of downswing or the beginning of upswing phase of economic growth.

For example, Exhibit 2 shows that the peak point of the ninth cycle in April 2004 reflects that economy is entering the slow growth phase and the trough for growth cycle in November 2005 shows the beginning of a higher growth phase.

## EXPLANATORY NOTES

**Exhibit 2: Malaysian Growth Cycles Reference Periods**

| Full Cycles (Month)   | Reference Periods | Trough to Peak (Month) | Peak to Trough (Month) | Reference Periods |
|-----------------------|-------------------|------------------------|------------------------|-------------------|
| First Cycle (25)      | Feb 73 - May 74   | 15                     | 10                     | May 74 - Mar 75   |
| Second Cycle (28)     | Mar 75 - Nov 76   | 20                     | 8                      | Nov 76 - Jul 77   |
| Third Cycle (64)      | Jul 77 - Jul 81   | 48                     | 16                     | Jul 81 - Nov 82   |
| Fourth Cycle (50)     | Nov 82 - Jan 85   | 26                     | 24                     | Jan 85 - Jan 87   |
| Fifth Cycle (39)      | Jan 87 - Oct 88   | 21                     | 18                     | Oct 88 - Apr 90   |
| Sixth Cycle (33)      | Apr 90 - Jan 92   | 21                     | 12                     | Jan 92 - Jan 93   |
| Seventh Cycle (72)    | Jan 93 - Jan 98   | 60                     | 12                     | Jan 98 - Jan 99   |
| Eighth Cycle (37)     | Jan 99 - Aug 00   | 19                     | 18                     | Aug 00 - Feb 02   |
| Ninth Cycle (45)      | Feb 02 - Apr 04   | 26                     | 19                     | Apr 04 - Nov 05   |
| Tenth Cycle (40)      | Nov 05 - Jan 08   | 26                     | 14                     | Jan 08 - Mar 09   |
| Eleventh Cycle (40)   | Mar 09 - Jul 11   | 28                     | 12                     | Jul 11 - Jul 12   |
| Twelfth Cycle (46)    | Jul 12 - Mar 15   | 32                     | 14                     | Mar 15 - May 16   |
| Thirteenth Cycle (47) | May 16 - Apr 19   | 35                     | 12                     | Apr 19 - Apr 20   |
| Average               |                   | 29                     | 15                     |                   |

### 6.0 LIMITATION OF MALAYSIAN ECONOMIC INDICATORS

There are some limitations of the Malaysian Economic Indicators that users should be aware of:

- The Leading Index is unable to measure or predict the magnitude of any changes of economic activity. The index shows the direction of the economy in advance.
- The Coincident Index does not represent the level of the current economic situation. Thus it should not be interpreted as the level of current monthly Gross Domestic Product (GDP).
- The economic indicators are unable to take into account the internal or/and external shock to the economy.



# KALENDAR AWALAN KELUARAN 2021 PENUNJUK EKONOMI MALAYSIA: INDEKS PELOPOR, SERENTAK & SUSULAN

ADVANCE RELEASE CALENDAR 2021

MALYSIAN ECONOMIC INDICATORS: LEADING, COINCIDENT & LAGGING INDEXES

Bulan Rujukan  
Reference Month

Tarikh Keluaran  
Release Date



Nota : TLD Tidak lewat daripada

Note : NLT Not later than

| January<br>March, 2021 |     |     |     |     |     |     |
|------------------------|-----|-----|-----|-----|-----|-----|
| Sun                    | Mon | Tue | Wed | Thu | Fri | Sat |
|                        | 1   | 2   | 3   | 4   | 5   | 6   |
| 7                      | 8   | 9   | 10  | 11  | 12  | 13  |
| 14                     | 15  | 16  | 17  | 18  | 19  | 20  |
| 21                     | 22  | 23  | 24  | 25  | 26  | 27  |
| 28                     | 29  | 30  | 31  |     |     |     |

| February<br>April, 2021 |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|
| Sun                     | Mon | Tue | Wed | Thu | Fri | Sat |
|                         |     |     |     | 1   | 2   | 3   |
| 4                       | 5   | 6   | 7   | 8   | 9   | 10  |
| 11                      | 12  | 13  | 14  | 15  | 16  | 17  |
| 18                      | 19  | 20  | 21  | 22  | 23  | 24  |
| 25                      | 26  | 27  | 28  | 29  | 30  |     |

| March<br>May, 2021 |     |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|-----|
| Sun                | Mon | Tue | Wed | Thu | Fri | Sat |
|                    |     |     |     |     |     | 1   |
| 2                  | 3   | 4   | 5   | 6   | 7   | 8   |
| 9                  | 10  | 11  | 12  | 13  | 14  | 15  |
| 16                 | 17  | 18  | 19  | 20  | 21  | 22  |
| 23                 | 24  | 25  | 26  | 27  | 28  | 29  |
| 30                 | 31  |     |     |     |     |     |

| April<br>June, 2021 |     |     |     |     |     |     |
|---------------------|-----|-----|-----|-----|-----|-----|
| Sun                 | Mon | Tue | Wed | Thu | Fri | Sat |
|                     |     | 1   | 2   | 3   | 4   | 5   |
| 6                   | 7   | 8   | 9   | 10  | 11  | 12  |
| 13                  | 14  | 15  | 16  | 17  | 18  | 19  |
| 20                  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27                  | 28  | 29  | 30  |     |     |     |

| May<br>July, 2021 |     |     |     |     |     |     |
|-------------------|-----|-----|-----|-----|-----|-----|
| Sun               | Mon | Tue | Wed | Thu | Fri | Sat |
|                   |     |     |     | 1   | 2   | 3   |
| 4                 | 5   | 6   | 7   | 8   | 9   | 10  |
| 11                | 12  | 13  | 14  | 15  | 16  | 17  |
| 18                | 19  | 20  | 21  | 22  | 23  | 24  |
| 25                | 26  | 27  | 28  | 29  | 30  | 31  |

| June<br>August, 2021 |     |     |     |     |     |     |
|----------------------|-----|-----|-----|-----|-----|-----|
| Sun                  | Mon | Tue | Wed | Thu | Fri | Sat |
| 1                    | 2   | 3   | 4   | 5   | 6   | 7   |
| 8                    | 9   | 10  | 11  | 12  | 13  | 14  |
| 15                   | 16  | 17  | 18  | 19  | 20  | 21  |
| 22                   | 23  | 24  | 25  | 26  | 27  | 28  |
| 29                   | 30  | 31  |     |     |     |     |

| July<br>September, 2021 |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|
| Sun                     | Mon | Tue | Wed | Thu | Fri | Sat |
|                         |     |     | 1   | 2   | 3   | 4   |
| 5                       | 6   | 7   | 8   | 9   | 10  | 11  |
| 12                      | 13  | 14  | 15  | 16  | 17  | 18  |
| 19                      | 20  | 21  | 22  | 23  | 24  | 25  |
| 26                      | 27  | 28  | 29  | 30  |     |     |

| August<br>October, 2021 |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|
| Sun                     | Mon | Tue | Wed | Thu | Fri | Sat |
|                         |     |     |     |     | 1   | 2   |
| 3                       | 4   | 5   | 6   | 7   | 8   | 9   |
| 10                      | 11  | 12  | 13  | 14  | 15  | 16  |
| 17                      | 18  | 19  | 20  | 21  | 22  | 23  |
| 24                      | 25  | 26  | 27  | 28  | 29  | 30  |
| 31                      |     |     |     |     |     |     |

| September<br>November, 2021 |     |     |     |     |     |     |
|-----------------------------|-----|-----|-----|-----|-----|-----|
| Sun                         | Mon | Tue | Wed | Thu | Fri | Sat |
|                             | 1   | 2   | 3   | 4   | 5   | 6   |
| 7                           | 8   | 9   | 10  | 11  | 12  | 13  |
| 14                          | 15  | 16  | 17  | 18  | 19  | 20  |
| 21                          | 22  | 23  | 24  | 25  | 26  | 27  |
| 28                          | 29  | 30  |     |     |     |     |

| October<br>December, 2021 |     |     |     |     |     |     |
|---------------------------|-----|-----|-----|-----|-----|-----|
| Sun                       | Mon | Tue | Wed | Thu | Fri | Sat |
|                           |     |     | 1   | 2   | 3   | 4   |
| 5                         | 6   | 7   | 8   | 9   | 10  | 11  |
| 12                        | 13  | 14  | 15  | 16  | 17  | 18  |
| 19                        | 20  | 21  | 22  | 23  | 24  | 25  |
| 26                        | 27  | 28  | 29  | 30  | 31  |     |

| November<br>January, 2022 |     |     |     |     |     |     |
|---------------------------|-----|-----|-----|-----|-----|-----|
| Sun                       | Mon | Tue | Wed | Thu | Fri | Sat |
|                           |     |     |     |     |     | 1   |
| 2                         | 3   | 4   | 5   | 6   | 7   | 8   |
| 9                         | 10  | 11  | 12  | 13  | 14  | 15  |
| 16                        | 17  | 18  | 19  | 20  | 21  | 22  |
| 23                        | 24  | 25  | 26  | 27  | 28  | 29  |
| 30                        | 31  |     |     |     |     |     |

| December<br>February, 2022 |     |     |     |     |     |     |
|----------------------------|-----|-----|-----|-----|-----|-----|
| Sun                        | Mon | Tue | Wed | Thu | Fri | Sat |
|                            |     | 1   | 2   | 3   | 4   | 5   |
| 6                          | 7   | 8   | 9   | 10  | 11  | 12  |
| 13                         | 14  | 15  | 16  | 17  | 18  | 19  |
| 20                         | 21  | 22  | 23  | 24  | 25  | 26  |
| 27                         | 28  |     |     |     |     |     |



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