

Quarterly Index of Industrial Production (QIIP)

Second Quarter 2017

(Base year: 2013 =100)

1. Introduction

The Index of Industrial Production shows the evolution of the volume of output of the Industrial Sector which covers “Mining and quarrying”, “Manufacturing”, “Electricity, gas, steam and air conditioning supply” and “Water supply; sewerage, waste management and remediation activities”. The value added of these activities accounts for around 18% of Gross Domestic Product (GDP). The index compiled on a quarterly basis is one of the most important industrial short-term indicators, which aims at measuring, on a quarterly basis, the changes in the volume of industrial output.

2. Contents of the publication

This issue of “Economic and Social Indicators” presents the quarterly indices for the first quarter of 2014 to the second quarter of 2017 with weights based on the results of the 2013 Census of Economic Activities.

The indices are given separately for the four sections, namely, “Mining and quarrying”, “Manufacturing”, “Electricity, gas, steam and air conditioning supply” and “Water supply; sewerage, waste management and remediation activities”. Within “Manufacturing”, estimates by broad group, namely “Export Oriented Enterprises” (EOE), “Non-EOE” and “Sugar milling” as well as by main industry group are given. Wherever possible, the annual averages of the quarterly indices have been worked out and included in the tables. It is to be noted that, due to incomplete data, indices for the second quarter of 2017 are provisional and published at section and broad group level only. They are therefore subject to revision in future issues of the Economic and Social Indicators on QIIP.

The published indices are not seasonally adjusted. The user is therefore advised to base comparisons for a particular quarter of a year on the corresponding quarter of the previous year.

The methodology used for the computation of QIIP including its limitations, are given at Annex.

3. The overall index - Industrial Sector

In the second quarter of 2017, the overall index of industrial production expanded by 10.5% compared to the previous quarter and by 3.1% compared to the corresponding quarter of 2016.

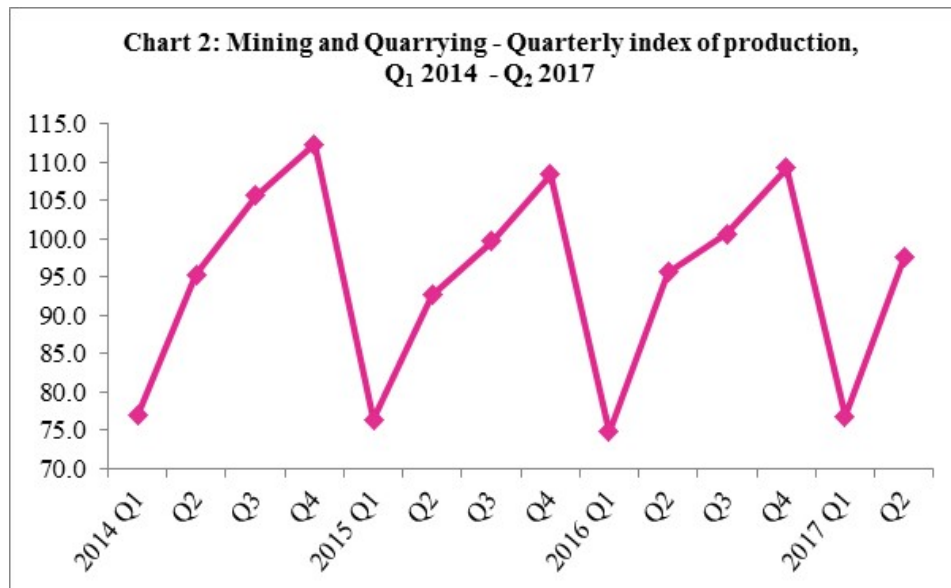
In the year ending second quarter 2017, i.e. the period covering the third quarter 2016 to second quarter 2017, real industrial output went up by 1.6%. This is explained by expansions in “Mining and quarrying” (+1.5%), “Manufacturing” (+1.4%), “Electricity, gas, steam and air conditioning supply” (+1.9%) and “Water supply; sewerage, waste management and remediation activities” (+1.4%).



4. Changes by section

4.1 Mining and quarrying

“Mining and quarrying” comprises activities relating to quarrying of decorative stones, sand and salt extraction as well as stone crushing and represents only 2% of the output of the industrial sector. In the second quarter of 2017, real output expanded by 27.0% compared to the previous quarter and by 1.9% compared to the corresponding quarter of 2016. In year ending second quarter 2017, production went up by 1.5% (Table 1).

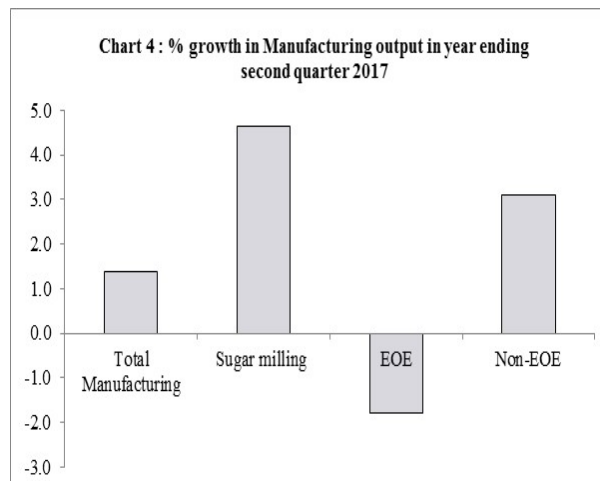
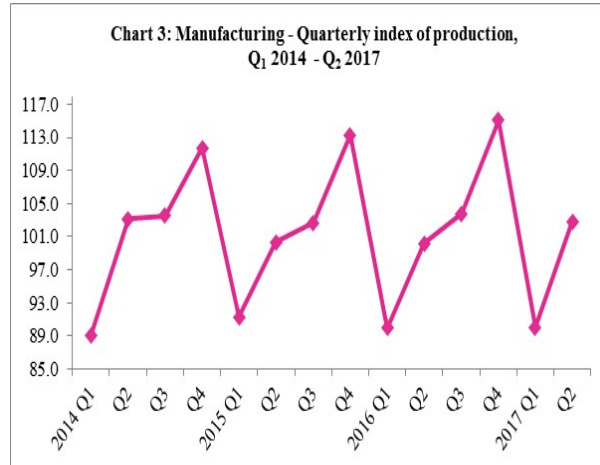


4.2 Manufacturing

Manufacturing output, which covers the production of a wide range of goods, represented 88% of the output of the industrial sector in 2013. For analysis purposes, “Manufacturing” is broken down into the following broad groups:

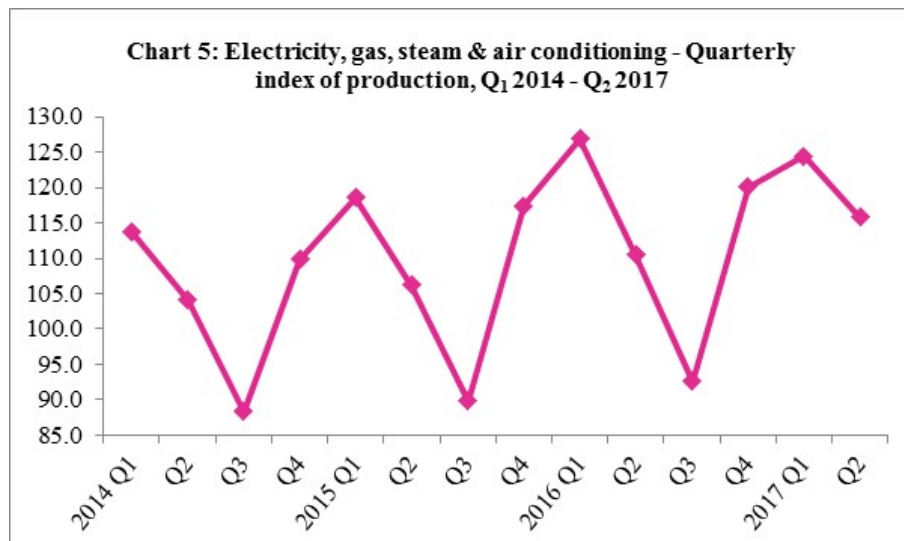
- Sugar milling representing 2% of manufacturing output
- EOE (39%)
- Non-EOE (59%)

Manufacturing output in the second quarter of 2017 expanded by 14.2% compared to the previous quarter and by 2.6% when compared to the corresponding quarter of 2016 (Table 1). In year ending second quarter 2017, real output registered a positive growth of 1.4%. This is due to expansions of 4.6% and 3.1% in the “Sugar milling” and “Non-EOE” sectors respectively, partly offset by a contraction of 1.8% in the “EOE” sector. The performances of “EOE” and “Non-EOE” by detailed industry group up to first quarter 2017 are analysed separately in Section 5.



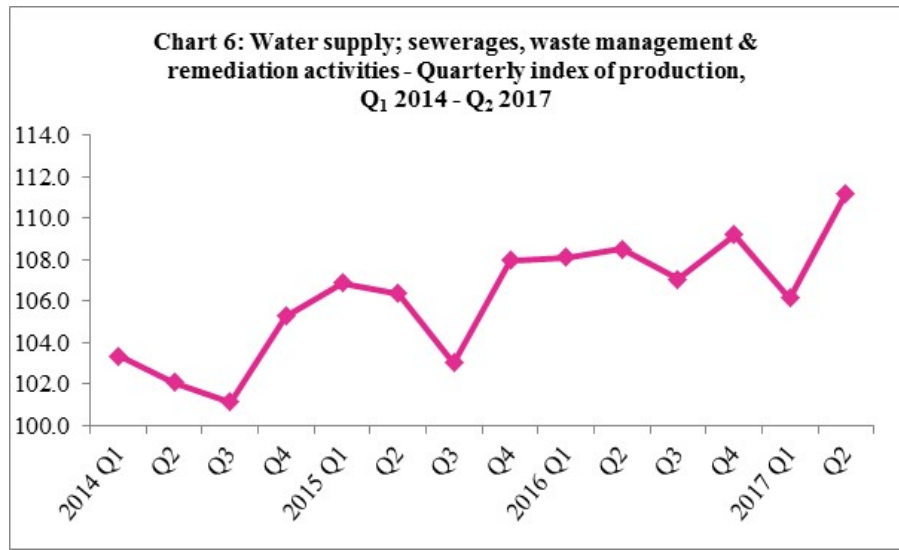
4.3 Electricity, gas, steam and air conditioning supply

“Electricity, gas, steam and air conditioning supply” accounts for 8.0% of the output of the industrial sector. In the second quarter of 2017, real output of this sector registered a negative growth of 6.9% compared to the previous quarter and compared to the corresponding quarter of 2016 the index went up by 4.9%. In year ending second quarter 2017, production expanded by 1.9% (Table 1).



4.4 Water supply; sewerage, waste management and remediation activities

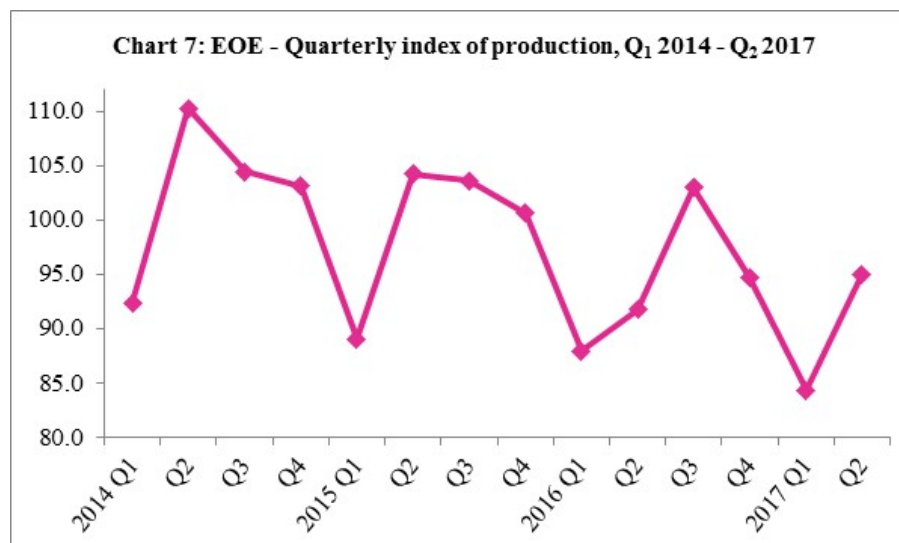
“Water supply; sewerage, waste management and remediation activities” accounts for around 2% of the output of the industrial sector. In the second quarter of 2017, real output of this sector expanded by 4.8% compared to the previous quarter and by 2.5% when compared to the corresponding quarter of 2016. In year ending second quarter 2017, an expansion of 1.4% has been noted (Table 1).



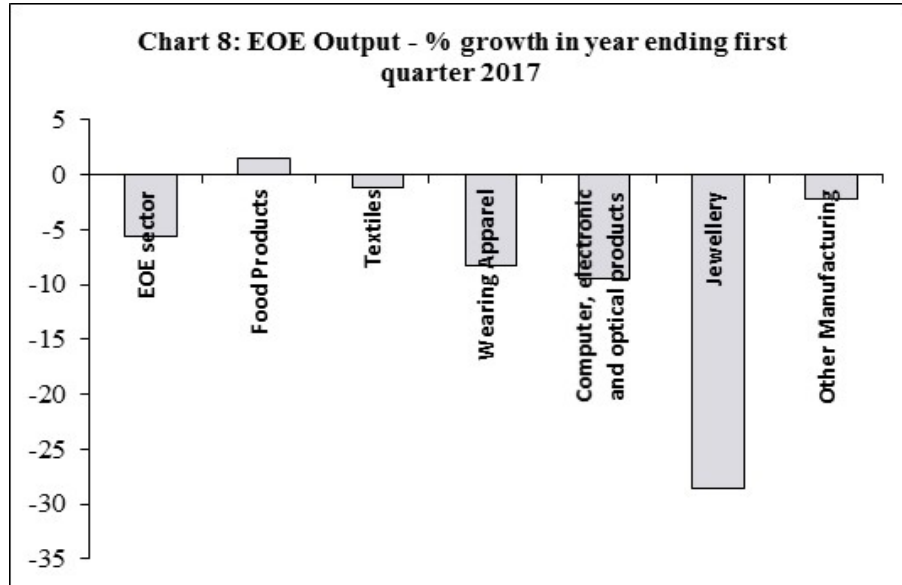
5. Changes by broad group

5.1 Export Oriented Enterprises (EOE)

Real output of the EOE sector went up by 12.7% in the second quarter of 2017 compared to the previous quarter and by 3.5% compared to the corresponding quarter of 2016. In year ending second quarter 2017, output of the EOE declined by 1.8% (Table 1).

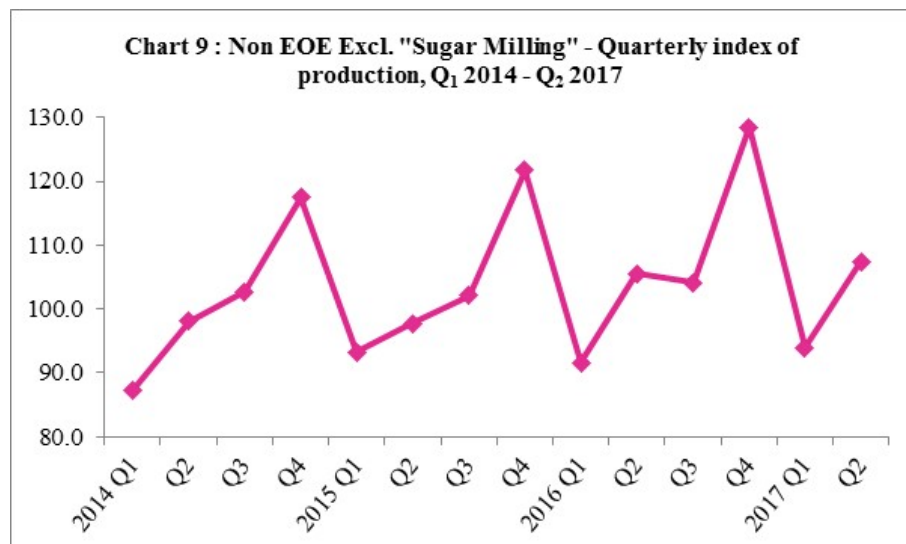


Lower level indices for the second quarter of 2017 are not yet available. However, an indication of the annual performance at sub-group levels can be obtained by comparing indices available for year ending first quarter 2017 to those for year ending first quarter 2016 (Table 3). Real output of “Wearing apparel”, the most important industry group within the EOE, contracted by 8.3% and that of “Textiles” by 1.2%. These two sub-groups account for almost 69% of the total weight allocated to the EOE. Real growth for “Food products” showed an increase of 1.4%. Negative growths were noted in “Computer, electronic and optical products” (-9.5%), “Jewellery, bijouterie & related articles n.e.c.” (-28.6%) and “Other manufacturing” (-2.3%). Details of changes at sub-group level are shown in Chart 8.

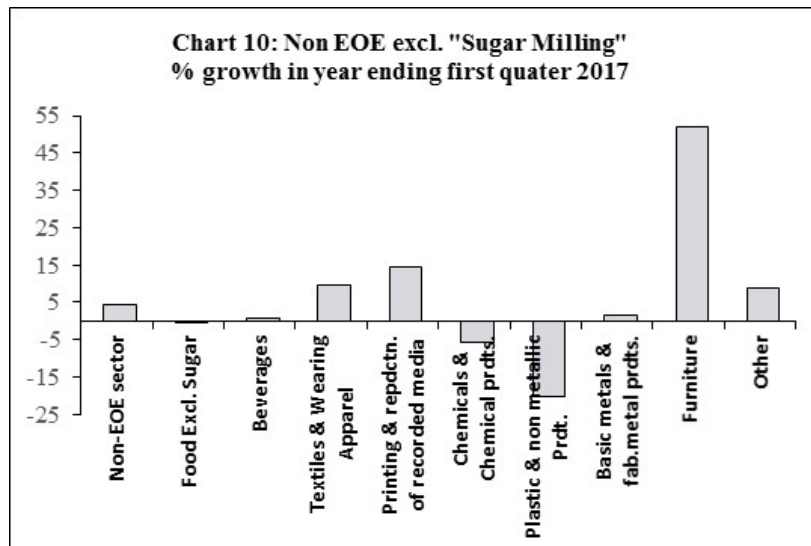


5.2 Non-EOE excluding “Sugar milling”

In the second quarter of 2017, the real output of the Non-EOE sector registered a positive growth of 14.2% compared to the previous quarter and 1.8% compared to the corresponding quarter of 2016. In year ending second quarter 2017, it went up by 3.1% (Table 1).



The annual performance at sub-group level is obtained by comparing the detailed indices available for year ending first quarter 2017 to those for year ending first quarter 2016 (Table 4). Expansions were registered in “Beverages” (+0.6%), “Textiles & wearing apparel” (+9.5%), “Printing and reproduction of recorded media” (+14.6%), “Basic metals and fabricated metal products” (+1.4%), “Furniture” (+52.2%) and “Other Manufacturing” (+9.0%). Contractions were noted in “Chemicals & chemical products” (-5.6%) and “Plastic and non-metallic product” (-20.2%) while “Food products excluding sugar” remained at the same level as in the previous year as illustrated in Chart 10.



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Table 1: Index of industrial production by industry group - annual and quarterly indices, Q₁ 2014 to Q₂ 2017

Base period: Year 2013 = 100

| NSIC Division/Subclass | Manufacturing | | | | | | | Electricity, gas, steam and air conditioning supply | Water supply; sewerage, waste management & remediation |
|---|-------------------|----------------------|---------|--------------------------|---------------|---------|---------|---|--|
| | Industrial sector | Mining and quarrying | Total | Total exc. sugar milling | Sugar milling | EOE | Non-EOE | | |
| | 05 - 33, 35 - 39 | 05 - 09 | 10 - 33 | 10 - 33 except 10720 | 10720 | 10 - 33 | 10 - 33 | 35 | 36-39 |
| Weight (Year 2013) | 1000 | 15 | 882 | 869 | 13 | 347 | 523 | 80 | 22 |
| Annual | | | | | | | | | |
| 2014 | 102.0 | 97.5 | 101.8 | 101.8 | 100.8 | 102.5 | 101.4 | 104.0 | 102.9 |
| 2015 | 102.4 | 94.3 | 101.9 | 102.0 | 95.7 | 99.3 | 103.7 | 108.0 | 106.1 |
| 2016 | 103.4 | 95.1 | 102.2 | 102.2 | 102.4 | 94.3 | 107.4 | 112.5 | 108.2 |
| Quarterly | | | | | | | | | |
| 2014 Q1 | 91.1 | 76.9 | 89.0 | 89.3 | 70.8 | 92.4 | 87.2 | 113.8 | 103.3 |
| Q2 | 103.0 | 95.4 | 103.1 | 103.0 | 111.5 | 110.3 | 98.1 | 104.1 | 102.1 |
| Q3 | 102.3 | 105.6 | 103.5 | 103.4 | 111.0 | 104.4 | 102.7 | 88.4 | 101.1 |
| Q4 | 111.4 | 112.3 | 111.7 | 111.8 | 109.9 | 103.1 | 117.5 | 109.8 | 105.3 |
| 2015 Q1 | 93.8 | 76.3 | 91.3 | 91.6 | 67.2 | 89.0 | 93.2 | 118.6 | 106.9 |
| Q2 | 100.9 | 92.6 | 100.3 | 100.3 | 105.8 | 104.2 | 97.7 | 106.2 | 106.4 |
| Q3 | 101.5 | 99.7 | 102.7 | 102.7 | 105.4 | 103.6 | 102.1 | 89.9 | 103.0 |
| Q4 | 113.5 | 108.4 | 113.3 | 113.4 | 104.3 | 100.6 | 121.7 | 117.4 | 108.0 |
| 2016 Q1 | 94.3 | 74.8 | 89.9 | 90.1 | 71.9 | 87.9 | 91.6 | 126.9 | 108.1 |
| Q2 | 101.5 | 95.7 | 100.2 | 100.0 | 113.2 | 91.7 | 105.5 | 110.4 | 108.5 |
| Q3 | 102.5 | 100.6 | 103.8 | 103.7 | 112.8 | 103.0 | 104.1 | 92.6 | 107.1 |
| Q4 | 115.4 | 109.3 | 115.0 | 115.1 | 111.6 | 94.7 | 128.5 | 120.0 | 109.2 |
| 2017 Q1 | 94.7 | 76.8 | 90.0 | 90.3 | 73.3 | 84.3 | 94.0 | 124.4 | 106.1 |
| Q2 | 104.6 | 97.5 | 102.8 | 102.6 | 115.4 | 95.0 | 107.4 | 115.8 | 111.2 |
| % change, latest quarter over: ¹ | | | | | | | | | |
| previous quarter | 10.5 | 27.0 | 14.2 | 13.7 | 57.4 | 12.7 | 14.2 | -6.9 | 4.8 |
| same quarter a year ago | 3.1 | 1.9 | 2.6 | 2.6 | 1.9 | 3.5 | 1.8 | 4.9 | 2.5 |
| % growth in output in year ending ¹ | | | | | | | | | |
| second quarter 2017 | 1.6 | 1.5 | 1.4 | 1.3 | 4.6 | -1.8 | 3.1 | 1.9 | 1.4 |

¹ Provisional

Table 2: Index of industrial production by main industry group of the manufacturing sector, Q₁ 2014 to Q₁ 2017

Base period: Year 2013 = 100

| | Main industry group | | | | | | | | | | |
|---|----------------------------|------------------|-----------|---------|-----------------|---|-------------------|-----------------------|---------------------------------|-----------|------------------------|
| | Total manufacturing | Food Incl. sugar | Beverages | Textile | Wearing apparel | Printing & reproduction of recorded media | Chemical products | Non Metallic Products | Basic Metals& fabricated metals | Furniture | Other |
| NSIC Division | 10 -33 | 10 | 11 | 13 | 14 | 18 | 20 & 21 | 22 & 23 | 24 & 25 | 31 | 15-17, 19, 26-30,32,33 |
| Weight (Year 2013) | 1000 | 208 | 149 | 53 | 251 | 24 | 50 | 55 | 62 | 47 | 103 |
| Annual | | | | | | | | | | | |
| 2014 | 101.8 | 101.6 | 103.3 | 97.4 | 105.7 | 125.3 | 104.1 | 90.1 | 96.1 | 92.7 | 100.1 |
| 2015 | 101.9 | 104.7 | 105.6 | 98.2 | 101.9 | 121.2 | 98.3 | 88.2 | 91.7 | 98.8 | 104.3 |
| 2016 | 102.2 | 105.4 | 108.7 | 96.9 | 95.0 | 140.1 | 93.7 | 76.5 | 88.1 | 138.4 | 109.5 |
| Quarterly | | | | | | | | | | | |
| 2014 Q1 | 89.0 | 91.9 | 84.7 | 83.1 | 91.1 | 105.0 | 80.3 | 70.5 | 87.2 | 120.1 | 83.6 |
| Q2 | 103.1 | 103.6 | 94.8 | 112.6 | 109.8 | 124.8 | 105.1 | 96.0 | 96.7 | 76.3 | 106.5 |
| Q3 | 103.5 | 103.8 | 101.7 | 103.4 | 105.5 | 124.8 | 110.0 | 96.1 | 92.9 | 92.7 | 107.4 |
| Q4 | 111.7 | 107.1 | 132.0 | 90.6 | 116.2 | 146.7 | 120.9 | 97.9 | 107.4 | 81.5 | 103.0 |
| 2015 Q1 | 91.3 | 96.7 | 92.9 | 85.9 | 88.3 | 111.7 | 85.7 | 66.9 | 86.7 | 117.0 | 89.2 |
| Q2 | 100.3 | 104.9 | 97.2 | 111.5 | 100.6 | 117.7 | 97.7 | 82.4 | 85.0 | 106.6 | 102.3 |
| Q3 | 102.7 | 107.3 | 96.8 | 93.9 | 107.4 | 112.3 | 96.2 | 99.5 | 91.6 | 90.5 | 108.1 |
| Q4 | 113.3 | 110.1 | 135.6 | 101.4 | 111.3 | 142.9 | 113.5 | 103.9 | 103.3 | 81.1 | 117.8 |
| 2016 Q1 | 89.9 | 95.1 | 97.4 | 85.6 | 85.6 | 119.3 | 86.0 | 73.8 | 80.5 | 95.6 | 88.3 |
| Q2 | 100.2 | 105.8 | 101.2 | 97.2 | 86.2 | 132.5 | 96.0 | 81.2 | 80.0 | 131.8 | 125.3 |
| Q3 | 103.8 | 107.7 | 99.5 | 94.5 | 107.9 | 124.5 | 87.8 | 70.9 | 97.6 | 153.4 | 98.9 |
| Q4 | 115.0 | 112.9 | 136.7 | 110.4 | 100.2 | 184.3 | 105.0 | 80.1 | 94.1 | 172.8 | 125.5 |
| 2017 Q1 | 90.0 | 93.2 | 93.6 | 94.9 | 83.4 | 125.5 | 199.9 | 135.7 | 158.6 | 111.5 | 90.5 |
| % change, latest quarter over: | | | | | | | | | | | |
| previous quarter | -21.7 | -17.4 | -31.5 | -14.0 | -16.8 | -31.9 | 90.3 | 69.5 | 68.5 | -35.5 | -27.9 |
| same quarter a year ago | 0.1 | -2.0 | -3.9 | 11.0 | -2.6 | 5.2 | 132.4 | 83.9 | 97.0 | 16.6 | 2.5 |
| % growth in output in year ending: | | | | | | | | | | | |
| first quarter 2017 | 0.7 | 0.5 | 1.0 | 1.2 | -6.7 | 15.1 | 24.2 | 2.3 | 19.4 | 52.4 | 5.7 |

∞

Table 3: Index of industrial production by main industry group of the EOE sector, Q₁ 2014 to Q₁ 2017

Base period: Year 2013 = 100

| | Main industry group | | | | | | |
|---|-------------------------------|---------------|----------|-----------------|--|-----------|--|
| | EOE, Manufacturing | Food Products | Textiles | Wearing Apparel | Computer, electronic and optical products | Jewellery | Other Manufacturing |
| NSIC Division/Subclass | 10 - 33 | 10 | 13 | 14 | 26 | 32100 | 11-18, 20-22, 25, 27, 32 except 32100, 33 |
| Weight (Year 2013) | 1000 | 140 | 118 | 570 | 23 | 18 | 130 |
| Annual | | | | | | | |
| 2014 | 102.5 | 98.2 | 94.1 | 107.5 | 101.7 | 87.2 | 95.2 |
| 2015 | 99.3 | 101.6 | 93.6 | 102.8 | 92.1 | 65.9 | 93.3 |
| 2016 | 94.3 | 105.6 | 88.1 | 95.0 | 93.5 | 51.9 | 92.6 |
| Quarterly | | | | | | | |
| 2014 Q1 | 92.4 | 97.6 | 81.1 | 94.0 | 98.0 | 99.2 | 88.1 |
| Q2 | 110.3 | 107.0 | 109.6 | 114.4 | 118.3 | 92.4 | 97.4 |
| Q3 | 104.4 | 104.9 | 103.7 | 107.1 | 95.3 | 82.0 | 97.4 |
| Q4 | 103.1 | 83.5 | 82.1 | 114.6 | 95.4 | 75.2 | 98.0 |
| 2015 Q1 | 89.0 | 98.4 | 83.7 | 89.9 | 100.2 | 64.7 | 82.7 |
| Q2 | 104.2 | 114.9 | 112.0 | 102.9 | 93.9 | 67.9 | 100.6 |
| Q3 | 103.6 | 105.4 | 91.6 | 109.9 | 84.8 | 60.4 | 93.6 |
| Q4 | 100.6 | 87.8 | 87.0 | 108.5 | 89.7 | 70.5 | 96.4 |
| 2016 Q1 | 87.9 | 101.0 | 79.4 | 87.7 | 112.0 | 60.1 | 84.3 |
| Q2 | 91.7 | 115.8 | 90.1 | 86.8 | 85.0 | 70.5 | 96.3 |
| Q3 | 103.0 | 107.0 | 90.5 | 110.1 | 87.4 | 40.6 | 89.2 |
| Q4 | 94.7 | 98.5 | 92.2 | 95.3 | 89.5 | 36.5 | 100.8 |
| 2017 Q1 | 84.3 | 93.7 | 92.7 | 82.8 | 82.1 | 37.4 | 80.1 |
| % change, latest quarter over: | | | | | | | |
| previous quarter | -11.0 | -4.9 | 0.6 | -13.0 | -8.3 | 2.6 | -20.6 |
| same quarter a year ago | -4.1 | -7.2 | 16.7 | -5.6 | -26.7 | -37.8 | -5.0 |
| % growth in output in year ending: | | | | | | | |
| first quarter 2017 | -5.7 | 1.4 | -1.2 | -8.3 | -9.5 | -28.6 | -2.3 |

Table 4: Index of industrial production by main industry group of the Non-EOE sector (exc. Sugar), Q₁ 2014 to Q₁ 2017

Base period: Year 2013 = 100

| | Main industry group | | | | | | | | | |
|---|-----------------------------------|---------------------|-----------|----------------------------------|--|---------------------------------------|--------------------------------------|---|-----------|-------------------------------|
| | Non-EOE, manufacturing | Food Excl. Sugar | Beverages | Textiles & Wearing Apparel | Printing and reproduction of recorded media | Chemicals and Chemical products | Plastic & non metallic Product | Basic metals & fabricated metal products | Furniture | Other |
| NSIC Division | 10-33 | 10 | 11 | 13 &14 | 18 | 20 | 22 & 23 | 24 &25 | 31 | 15-17, 19, 26-30, 32-33 |
| Weight (Year 2013) | 1000 | 252 | 245 | 49 | 33 | 64 | 80 | 94 | 77 | 106 |
| Annual | | | | | | | | | | |
| 2014 | 101.4 | 102.9 | 103.2 | 95.1 | 128.7 | 110.2 | 90.0 | 96.5 | 92.5 | 101.6 |
| 2015 | 103.7 | 106.4 | 105.3 | 100.9 | 128.2 | 95.1 | 89.8 | 92.0 | 99.0 | 114.2 |
| 2016 | 107.4 | 105.5 | 108.0 | 107.2 | 144.5 | 91.1 | 75.6 | 90.4 | 138.5 | 121.7 |
| Quarterly | | | | | | | | | | |
| 2014 Q1 | 87.2 | 92.0 | 84.5 | 71.0 | 103.9 | 80.0 | 68.0 | 87.9 | 120.4 | 77.7 |
| Q2 | 98.1 | 101.5 | 94.8 | 80.2 | 127.0 | 113.3 | 97.3 | 96.5 | 76.1 | 106.3 |
| Q3 | 102.7 | 102.7 | 101.8 | 92.4 | 126.4 | 116.3 | 96.7 | 93.1 | 92.9 | 114.1 |
| Q4 | 117.5 | 115.4 | 131.7 | 136.9 | 157.6 | 131.1 | 97.9 | 108.5 | 80.5 | 108.4 |
| 2015 Q1 | 93.2 | 98.4 | 92.8 | 78.6 | 116.0 | 84.6 | 66.6 | 87.8 | 117.5 | 92.9 |
| Q2 | 97.7 | 101.6 | 96.9 | 84.1 | 124.8 | 94.4 | 82.5 | 81.9 | 107.5 | 107.0 |
| Q3 | 102.1 | 108.1 | 96.5 | 87.8 | 119.2 | 90.0 | 102.9 | 91.9 | 90.8 | 122.0 |
| Q4 | 121.7 | 117.8 | 134.9 | 153.1 | 152.7 | 111.4 | 107.3 | 106.4 | 80.3 | 134.8 |
| 2016 Q1 | 91.6 | 94.9 | 97.2 | 78.9 | 122.9 | 82.2 | 74.8 | 81.4 | 96.0 | 90.4 |
| Q2 | 105.5 | 102.1 | 100.8 | 93.8 | 136.6 | 89.7 | 80.9 | 80.4 | 132.3 | 142.8 |
| Q3 | 104.1 | 107.5 | 99.0 | 95.6 | 127.5 | 87.3 | 68.6 | 100.8 | 153.9 | 108.5 |
| Q4 | 128.5 | 117.6 | 135.1 | 160.3 | 191.2 | 105.1 | 78.2 | 99.0 | 171.7 | 144.9 |
| 2017 Q1 | 94.0 | 94.9 | 93.1 | 92.4 | 140.2 | 74.6 | 65.7 | 86.4 | 112.1 | 98.7 |
| % change, latest quarter over: | | | | | | | | | | |
| previous quarter | -26.8 | -19.3 | -31.1 | -42.4 | -26.6 | -29.0 | -15.9 | -12.8 | -34.7 | -31.9 |
| same quarter a year ago | 2.6 | 0.1 | -4.2 | 17.0 | 14.1 | -9.2 | -12.1 | 6.1 | 16.8 | 9.2 |
| % growth in output in year ending: | | | | | | | | | | |
| first quarter 2017 | 4.6 | 0.0 | 0.6 | 9.5 | 14.6 | -5.6 | -20.2 | 1.4 | 52.2 | 9.0 |

Quarterly Index of Industrial Production (QIIP)

Methodology for the computation of the QIIP

1. Introduction

The Index of Industrial Production shows the movement of the volume of output of the Industrial Sector. Prior to 2001, the index was calculated annually and published in the Digest of Industrial Statistics. Following the needs expressed by various institutions, both public and private, Statistics Mauritius started to compile and disseminate the index on a quarterly basis as from the first quarter of 2001. The compilation and dissemination of high frequency (monthly/quarterly) Index of Industrial Production is also one of the requirements of the International Monetary Fund (IMF) Special Data Dissemination Standard (SDDS).

2. Objectives

The Quarterly Index of Industrial Production (QIIP) is one of the most important industrial short-term indicators which aims at measuring, on a quarterly basis, the ups and downs of the volume of industrial output with a special focus on detecting, as early as possible, the turning points of the business cycle. This enables planners, decision makers and the business community at large to be aware of any sign of change in the progress of the economy in order to take appropriate and timely measures.

The index provides useful and reliable inputs for the estimates of quarterly and annual value added for the Industrial Sector.

3. Concepts and definitions

Basically, the Index of Industrial Production is a measurement of the change in real value added (value added at constant price). Value added is defined as the difference between output and input. Computation of quarterly value added at current and constant prices requires data on inputs and outputs in the different industry groups within a given time frame. In the absence of the detailed data required, an approximation of the index is based on change in deflated turnover, physical quantity of goods produced and other indicators of change in real value added generated by industrial enterprises.

The indicators/methods used in compiling QIIP and data sources by sector/industry group are given at section 5.

4. Scope and classification

The indices are compiled by industry group according to the National Standard Industrial Classification Rev.2 (NSIC Rev.2), based on the UN International Standard Industrial Classification Rev.4 (ISIC Rev.4).

The Quarterly Index of Industrial Production covers the Industrial Sector, which comprises the following sections of NSIC Rev.2:

Section B: Mining and quarrying;

Section C: Manufacturing;

Section D: Electricity, Gas, Steam and Air Conditioning Supply; and

Section E: Water Supply; Sewerage, Waste Management and Remediation Activities

5. Indicators and data sources

The table below shows price and volume indicators used as well as corresponding data sources by industry group.

| Sector/Industry group | Indicators used | Data sources |
|---|---|---|
| Mining and quarrying | Value added deflated by relevant components of Consumer Price Index (CPI) | <ul style="list-style-type: none"> • Quarterly survey of establishments • Monthly and quarterly data from VAT Department |
| Industry groups within manufacturing (excluding sugar milling) | Turnover data deflated by: <ul style="list-style-type: none"> (i) Export Price Index (EPI) for EOE (ii) Producer Price Index – Manufacturing (PPI-M) for Non-EOE (iii) Relevant components of CPI for small establishments | <ul style="list-style-type: none"> • Monthly and quarterly data from VAT Department • Quarterly exports statistics • Quarterly Stock Survey • Expenditure on “Clothing and footwear” from the Continuous Multi-Purpose Household Survey (CMPHS) for small establishments engaged in the manufacture of these products. • Building permits statistics for small establishments engaged in the manufacture fabricated metal products and wooden furniture. |
| Sugar milling | Gross output deflated by sugar prices and inputs deflated by a weighted price index based on relevant components of CPI. | <ul style="list-style-type: none"> • Annual survey of establishments • Production of sugar and prices from Mauritius Sugar Syndicate |
| Electricity, gas, steam and air conditioning supply | Volume of electricity produced | <ul style="list-style-type: none"> • Quarterly returns from Central Electricity Board and Independent Power Producers (IPPs) |
| Water supply; sewerage, waste management and remediation activities | Volume of water sold used as volume indicator for water supply and waste management services; Value added deflated by relevant components of CPI for other activities. | <ul style="list-style-type: none"> • Quarterly returns from Central Water Authority • Monthly and quarterly data from VAT Department |

6. Weights

Weights for the QIIP are derived from value added by detailed industry group (5-digit subclass level) compiled from the Census of Economic Activities (CEA). The current weights is based on the results of the 2013 CEA.

For the manufacturing sector the weights are computed separately for Export Oriented Enterprises (EOE) and Non-EOE sub-sectors. Prior to 2008, the weight of the Non-EOE sub-sector was based on large establishments (engaging 10 or more persons) only. As from 2008, value added of small establishments (engaging less than 10 persons) has been considered in the calculation of the weights.

7. Reliability of the indices

The practical difficulties in compiling an index showing the evolution of value added at constant prices requires a number of approximation methods which are listed at section 5. Each of these methods has a number of constraints, the main ones being:

Deflated turnover:

- Quality of the data from the different sources. The output figures in a given industry group may include output of some other activities (secondary activities) which should have been classified elsewhere;
- Time-lag between production and sales may lead to a late identification of a turning point in the business cycle;
- Turnover data need to be adjusted for changes in stocks for a true picture of production. This exercise is partly done, based on available information from the Quarterly Stock Survey;
- The quality of the index is subject to the precision and relevance of the different price indices used for deflation; and
- The base year ratio of value added to gross output is maintained throughout the period covered by the indices, when, in fact, the ratio may change as a result of technological changes, productivity changes as well as seasonal variation in the production structure.

Volume of production:

- does not take account of quality changes

Indirect Indicators

- In the absence of data for small establishments, indirect indicators such as household consumption expenditure and building permits are used for activities concerned

In spite of the above limitations, it is observed that the index shows relative consistency and is of reliable quality for the measurement of quarterly and other changes. However, great care should be taken when interpreting small changes at the more detailed level.

8. Index calculation

The QIIP is calculated according to Laspeyre's index as follows:

$$I_t = \frac{\sum W_i (Q_{it}/Q_{io})}{\sum W_i} \times 100$$

with I_t = index for quarter t
 W_i = weight for activity i

(Q_{it}/Q_{io}) = is the growth in real value added of activity i in quarter t relative to the base year as estimated by an appropriate proxy indicator