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DIGEST
OF
INDUSTRIAL STATISTICS
2016

DIGEST OF INDUSTRIAL STATISTICS – 2016

Foreword

This is the thirty second issue of the Digest of Industrial Statistics published by Statistics Mauritius. The Industrial Sector, according to the International Recommendations for Industrial Statistics (IRIS) 2008, covers “Mining and quarrying”, “Manufacturing”, “Electricity, gas, steam and air conditioning supply”, and “Water supply; sewerage, waste management and remediation activities”.

Data presented in this publication cover the period 2012 to 2016 unless otherwise specified. All data relate to the Republic of Mauritius.

Production accounts of the Sector have been rebased on the results of the 2013 Census of Economic Activities, and are therefore not strictly comparable with series published earlier.

It is hoped that the data provided will prove valuable to all users, in particular industrialists, decision makers, planners and researchers. The quality of the data published in this report depends heavily on the basic data provided by numerous enterprises and organisations, both public and private. This office acknowledges their valuable contribution.

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Ag. Director of Statistics

Statistics Mauritius

Ministry of Finance and Economic Development

Port Louis

August 2017

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SYMBOLS AND ABBREVIATIONS

Symbols

The following symbols are used throughout:

- Not applicable or nil
- ... Not available

Abbreviations

'000: Thousand

H_Litres: Hectolitres (100 litres)

GWh: Gigawatthour

No: Number

Acronames

C.i.f.: Cost, insurance, freight

EOE: Export Oriented Enterprises

EPZ: Export Processing Zone

F.o.b.: Free on board

MSDG: Medium Scale Distributed Generation

NSIC: National Standard Industrial Classification of
all Economic Activities

SSDG: Small Scale Distributed Generation

VAT: Value Added Tax

INTRODUCTION

1. Historical background

Prior to 1985, data on the Industrial Sector were published in the annual report “National Accounts of Mauritius”. As from 1985, with the emergence of the manufacturing sector, in particular the EPZ, now EOE (as from October 2006), detailed data on the Industrial Sector are published in a separate report, namely, the annual “Digest of Industrial Statistics”.

2. Data collection, compilation and publication

Data are collected mainly through surveys which are later benchmarked with the Census of Economic Activities conducted every five years. The survey data are complemented with administrative data such as External trade statistics from the Customs Department and turnover data from Mauritius Revenue Authority. Data are collected under the authority of the Statistics Act 2000, as subsequently amended in the 2011 Economic and Financial Measures (Miscellaneous Provisions) Act, which lays great emphasis on the confidentiality aspect.

Statistics relating to the Industrial Sector are disseminated in two ways. Aggregated figures are published in quarterly issues of the following “Economic and Social Indicators”:

- Export Oriented Enterprises (EOE)
- Producer Price Index – Manufacturing Sector
- Quarterly Index of Industrial Production (QIIP)
- National Accounts Estimates

Comprehensive data are later published in the annual “Digest of Industrial Statistics”.

The status of the figures in this issue of the digest is as follows:

Year	Status
2012 - 2015	Revised estimates
2016	Provisional estimates

3. Problems and limitations of published data

The practical difficulties faced in the publication of the reports are as follows:

(i) Response rate to the annual enquiries

The response rate to the annual enquiries undertaken by the office continues to improve. However, it appears that the fear that Statistics Mauritius discloses information to other authorities still prevails among some suppliers of data. Data are collected under the authority of the Statistics Act 2000, which guarantees the absolute confidentiality of all information. No information relating to costs of production, capital employed or profits of an individual enterprise can be revealed to any authority or person. However, the Statistics Act 2000 allows the disclosure of information in the form of a list of names and addresses of individual undertakings or businesses together with their industrial classifications and products or services provided.

(ii) Non-uniformity of accounting years

Firms do not have uniform accounting years. Data collected for the last twelve-month period may refer to financial year or calendar year. This limitation may affect analysis for a particular year, but not analysis of trends over a period.

4. Performance of the Industrial Sector: 2012 - 2016

(i) Industrial Sector

In 2016, the Industrial Sector, covering Mining and quarrying, Manufacturing, Electricity, gas, steam and air conditioning supply, and Water supply, sewerage, waste management and remediation activities, accounted for 24.4% of total employment in large establishments and represented 16.7% of Gross Value Added (GVA). It registered a growth of 0.8% in 2016 compared to 0.4% in 2015. The performance of the sector in 2016 was due to positive growths of 4.2% in electricity, gas, steam and air conditioning supply, 2.0% in the Water supply, sewerage, waste management and remediation activities, 1.0% in Mining and quarrying and 0.3% in Manufacturing .

Investment in the industrial sector decreased from R 13,726 million in 2015 to R 13,700 million in 2016, representing a nominal decrease of 0.2 %.

	2012	2013	2014	2015	2016
No of large ¹ establishments	692	675	657	647	630
Employment in large ¹ establishments	79,127	79,486	79,565	78,363	76,472
Total value added at current basic prices (R Million)	54,382	58,793	61,125	62,921	64,456
Share in economy (%)	17.6	17.8	17.6	17.2	16.7
Growth rate (%)	+2.0	+4.1	+2.0	+0.4	+0.8
Investment (R Million)	13,006	12,010	13,317	13,726	13,700

1/Refer to establishments employing 10 or more persons

(ii) Manufacturing Sector

Manufacturing is the most important component of the Industrial Sector. The performances of its subsectors for 2012 – 2016 are as follows:

	Annual real growth rate (%)				
	2012	2013	2014	2015	2016
Manufacturing Sector	+2.1	+4.7	+1.8	+0.1	+0.3
<i>Of which</i>					
Sugar milling	-5.8	-0.4	+0.8	-5.1	+7.0
EOE	+1.4	-3.0	+2.5	-3.1	-5.1
Non EOE (excl. Sugar milling)	+2.8	+10.2	+1.3	+2.2	+3.8

The manufacturing sector accounted for 14.7 % and 13.9% of GVA in 2015 and 2016 respectively. In 2016, the sector grew by 0.3% compared to a growth of 0.1% in 2015. Within the sector:

Sugar milling	a positive growth of 7.0% in 2016 based on a sugar production of 386,277 tonnes, compared to 366,070 tonnes in 2015.
EOE	declined further by 5.1% in 2016 after contracting by 3.1% in 2015.
Non EOE (excl. Sugar milling)	a positive growth of 3.8% in 2016 compared to 2.2% in 2015.

Note: Figures may not add up to totals due to rounding.

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**COVERAGE,
CONCEPTS
AND
DEFINITIONS**

COVERAGE, CONCEPTS AND DEFINITIONS

1. Coverage

The Industrial Sector, according to the International Recommendations for Industrial Statistics 2008, comprises industrial activities falling within divisions 05 to 39 of the National Standard Industrial Classification (NSIC) Rev.2, based on the UN International Standard Industrial Classification (ISIC) Rev.4 of all Economic Activities. The Sections and Divisions are as follows:

Section	Division	Description
B	05 – 09	Mining and quarrying
C	10 – 33	Manufacturing
D	35	Electricity, gas, steam and air conditioning supply
E	36 - 39	Water supply; sewerage, waste management and remediation activities

2. Concepts and Definitions

The concepts and definitions of National Accounts aggregates used in this publication follow the recommendations of the 2008 System of National Accounts (SNA08).

2.1 Establishment

An *establishment* is defined as an economic unit, which engages in one or predominantly one kind of activity at a single location and under a single ownership. The number of establishments is greater than the number of enterprises as an enterprise can have one or more establishments.

Large establishments refer to all establishments, which engage ten or more persons. The source of data referring to employment in large establishments, is the Annual Survey of Employment and Earnings carried out by this office.

2.2 Export oriented enterprises

As from October 2006, Export Oriented Enterprises (EOE) comprise enterprises formerly operating with an export certificate and those export manufacturing enterprises holding a registration certificate issued by the Board of Investment.

2.3 Employee

An *employee* is defined as any person who is in regular or casual employment. It includes any person who is temporarily absent on *paid* sick or vacation leaves as well as persons holding managerial posts, family workers receiving wages and salaries and paid apprentices.

2.4 Gross output

Gross output of industries covers the market value of goods and services produced, including work-in-progress and products for own use. Gross output is valued at basic prices. The basic price is the amount receivable by the producer, exclusive of taxes on products but including any subsidy on these products.

2.5 Intermediate consumption

Intermediate consumption of industries covers non-durable goods and services used up in production and include repairs and maintenance of the capital stock and are valued at purchasers' prices. The purchasers' price is the amount payable by the purchaser exclusive of deductible taxes on products e.g. deductible value added tax.

2.6 Value added

The *value added* is equal to gross output at basic prices less the value of intermediate consumption at purchaser's prices.

2.7 Gross Domestic Product (GDP)

Gross Domestic Product is the sum of value added of all domestic producers. It represents the aggregate money value of all goods and services produced within a country out of economic activity during a specified period, usually a year, before provision for the consumption of fixed capital.

Gross Value Added (GVA) at basic prices is obtained as the difference between output and intermediate consumption whereby output is valued at basic prices and intermediate consumption at purchasers' prices.

2.8 Compensation of employees

Compensation of employees comprises all payments of wages and salaries by producers to their employees. Payments in kind as well as in cash and contributions to social security and to private pension fund, casualty insurance and similar schemes are also included.

Wages and salaries in cash include all payments which employees receive in respect of their work before deductions of employees' contributions to social security schemes. They include commissions, overtime payments, bonuses, cost of living allowance, housing allowances, etc.

Wages and salaries in kind are goods and services provided to employees free of charge or at a markedly reduced cost, which are clearly of direct benefit to the employees as consumers.

2.9 Gross Operating surplus

Gross operating surplus is defined as the excess of value added over the cost of employees' compensation and other taxes on production and imports net of subsidies.

2.10 Taxes on production and imports

Taxes on production and imports comprise all taxes that enterprises incur by engaging in production. There are two categories of taxes, namely taxes on products and other taxes on production.

Taxes on products are payable on goods and services when they are produced, sold or used. Examples are excise duties, import duties and Value Added Taxes (VAT).

Other taxes on production are taxes payable out of the value added of producers. This category of taxes includes taxes levied on property, fixed assets and labor employed. Examples are municipal taxes, motor vehicle licenses and business licenses.

SOURCES AND METHODS

1. Mining and quarrying

The activity of mining and quarrying comprises activities relating to quarrying of decorative stones, sand and salt extraction as well as stone crushing. The share of this industry in the GVA is negligible. Estimates of gross output and value added are based on information collected through special enquiries and Value Added Tax (VAT) system from the Mauritius Revenue Authority (MRA).

2. Manufacturing

The manufacturing sector is one of the largest sectors in the Mauritian economy. It contributes to around 13.9% of GVA in year 2016 and provides jobs for nearly 22.7% of the total employed in large establishments.

Sources

- Annual Survey of Receipts and Expenditure
- Annual Survey of Employment and Earnings
- Trade Statistics
- Census of Economic Activities
- Employment Survey Data
- Mauritius Chamber of Agriculture
- Mauritius Sugar Syndicate
- VAT data
- Excisable goods from Mauritius Revenue Authority

Methodology

The manufacturing sector is more conveniently analysed under the following three broad groups:

- Sugar milling
- EOE
- Non-EOE (excluding Sugar milling)

Sugar milling: Production accounts are compiled using information from Survey of sugar factories and other data made available by stakeholders. For sugar milling, the end product is sugar and only millers are engaged in its production. The gross output of sugar milling represents 22% of the gross proceeds from the sales of sugar. The main inputs are sugarcane, milling cost and marketing expenses.

Manufacturing (excl. sugar milling): Establishments are surveyed once a year through the Annual Survey of Receipts and Expenditure. A questionnaire is sent to a representative sample of large establishments to collect information on employment, labour costs, inputs, sales and inventories. Production accounts are worked out for each of the NSIC groups. Technical ratios such as labour costs/gross output, value

added/gross output and labour costs/value added are also calculated. These are used to make estimates for the non-respondents and also help in forecasting exercises.

3 Electricity, Gas, Steam and air conditioning supply

This sector covers the activities of one public enterprise, namely the Central Electricity Board (CEB) as well as the Independent Power Producers (IPPs) which provide electricity to the national grid.

The generation of electricity throughout the island is undertaken by the CEB and the IPPs, while its distribution rests solely with the CEB.

Sources

Annual Survey of Receipts & Expenditure
Census of Economic Activities
Annual reports of CEB

Methodology

The enterprises are required to fill in an annual questionnaire on income and expenditure accounts of the current year, requesting detailed data on receipts employment and labour costs, purchase of goods and services. In addition, CEB regularly publishes its income and expenditure accounts, which are used extensively for the preparation of production accounts.

4 Water Supply; sewerage management and remediation activities

The activities in this sector are classified in the following main components:

Water collection, treatment and supply
Sewerage
Waste collection, treatment and disposal activities; materials recovery
Remediation activities and other waste management services

Sources

Annual Survey of Large Establishments
Annual Survey of Employment and Earnings
Census of Economic Activities
VAT data

Methodology

Data are collected through mail questionnaires for large establishments. Among these are the Central Water Authority and the Wastewater Management Authority. For these enterprises, the production approach is used to measure output. Benchmark ratios obtained from the 2013 Census of Economic Activities and data from the VAT department are used for non-respondents.

5. Estimates of growth rates

5.1 Double-deflation method

The value added of an industry is a residual obtained after subtracting its intermediate consumption from its gross output. Therefore, to obtain the value added at previous year's prices, both the gross output and the input of goods and services should be revalued at previous year's prices. This method, the ideal one, is known as the "double-deflation" method. However, this method requires extensive data on both inputs and outputs, which, in practice are very difficult to obtain. Therefore, 'proxy indicators' are used as indicator of volume changes. The proxy indicators most often used are:

- Physical quantities of goods produced
- Physical quantities of materials used (intermediate consumption)
- Employment

As most industries produce a large number of heterogeneous products it is not possible to obtain separate physical output or input series. The monetary values are most often deflated by an appropriate price index to obtain the growth rates (volume changes).

The indices normally used are:

- (i) Producer Price Index (PPI)
- (ii) Consumer Price Index (CPI)
- (iii) Construction Price Index
- (iv) Wage/Salary Index
- (v) Import and Export Price Indices

The method used to derive growth rates of value added for the various industry groups of the industrial sector are given below.

NSIC Division -----	NSIC Section/ Industry Group -----	Method used -----
05-09	Mining and quarrying	Deflation and using appropriate Component of CPI
10-33	Manufacturing:	
	Sugar	Double deflation method using PPI-A for Output and weighted price index based on relevant components of the CPI for inputs
	EOE	Volume index by industry from Quarterly Index of Industrial Production (QIIP)
	Non-EOE (excl. Sugar milling)	Volume index by industry from Quarterly Index of Industrial Production (QIIP)
35	Electricity, Gas, steam and air conditioning supply	Volume indicator: units of electricity sold
36-39	Water supply; sewerage, waste management and remediation activities	Water supply: units of water sold used as volume indicator Other activities: Deflation by relevant component of CPI

SECTION 1
INDUSTRIAL
SECTOR

Table 1.1 - Selected social and economic indicators, 2012 - 2016

Indicators	2012¹	2013¹	2014¹	2015¹	2016²
1. Population (mid-year)	1,291,167	1,258,653	1,260,934	1,262,605	1,263,473
2. Population growth rate (%)	0.38	0.20	0.15	0.10	0.10
3. Gross Domestic Product (GDP) at market prices (R Million)	350,644	372,397	392,062	409,893	434,243
4. Real annual growth rate of GDP at market price (%)	+3.5	+3.4	+3.7	+3.6	+3.8
5. Real annual growth rate of the industrial sector (%)	+2.0	+4.1	+2.0	+0.4	+0.8
6. Rate of inflation (%)	+3.9	+3.5	+3.2	+1.3	+1.0
7. Employment (Large establishments only, as at March)	306,947	308,535	309,128	309,212	313,909
8. Tourist arrivals (Number)	965,441	993,106	1,038,968	1,151,723	1,275,227
9. Tourist earnings* (R Million)	44,378	40,557	44,304	50,191	55,867
10. Total imports (c.i.f.) (R Million)	160,996	165,594	172,038	168,023	165,436
11. Total exports (f.o.b.) (R Million)	79,658	88,048	94,776	93,290	83,851

¹ Revised ² Provisional

* Source: Bank of Mauritius

Table 1.2 - Main aggregates - Industrial Sector, 2012 - 2016

Main aggregates	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
1. No. of large establishments*	692	675	657	647	630
Mining and quarrying	25	24	24	23	23
Manufacturing	646	630	615	607	590
Electricity, gas, steam and air conditioning supply	7	7	7	7	7
Water supply; sewerage, waste management and remediation activities	14	14	11	10	10
2. Employment* in large establishments	79,127	79,486	79,565	78,363	76,472
Mining and quarrying	975	1,020	1,046	1,035	1,043
Manufacturing	73,859	74,166	74,292	73,087	71,195
Electricity, gas, steam and air conditioning supply	2,373	2,384	2,323	2,275	2,331
Water supply; sewerage, waste management and remediation activities	1,920	1,916	1,904	1,966	1,903
3. Value added at current basic prices (R Million)	54,382	58,793	61,125	62,921	64,456
Mining and quarrying	1,000	990	1,000	893	908
Manufacturing	47,856	51,787	53,274	53,436	53,631
Electricity, gas, steam and air conditioning supply	4,306	4,722	5,511	7,083	8,429
Water supply; sewerage, waste management and remediation activities	1,220	1,294	1,340	1,442	1,490
4. Investment at current prices (R Million)	13,006	12,010	13,317	13,726	13,700
Mining and quarrying	375	400	52	31	17
Manufacturing	5,179	4,865	5,958	3,738	3,851
Electricity, gas, steam and air conditioning supply	5,224	4,120	3,499	3,985	4,915
Water supply; sewerage, waste management and remediation activities	2,228	2,625	3,808	5,972	4,917

¹ Revised ² Provisional

* Source: Survey of Employment and Earnings - March of each year

Table 1.3 - Percentage share of the Industrial Sector in the economy, 2012 - 2016

	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
1. Share of value added of the industrial sector in the economy	17.6	17.8	17.6	17.2	16.7
Mining and quarrying	0.3	0.3	0.3	0.2	0.2
Manufacturing	15.5	15.7	15.3	14.7	13.9
Electricity, gas, steam and air conditioning supply	1.4	1.4	1.6	1.9	2.2
Water supply; sewerage, waste management and remediation activities	0.4	0.4	0.4	0.4	0.4
2. Share of employment of the industrial sector in					
total employment of large establishments	25.5	25.4	25.3	24.9	24.4
Mining and quarrying	0.3	0.3	0.3	0.3	0.3
Manufacturing	23.8	23.7	23.6	23.2	22.7
Electricity, gas, steam and air conditioning supply	0.8	0.8	0.7	0.7	0.7
Water supply; sewerage, waste management and remediation activities	0.6	0.6	0.6	0.6	0.6

¹ Revised ² Provisional

Table 1.4 - Value added at current basic prices of the Industrial Sector by industry group, 2012 - 2016

R Million

Industry group	2012	2013	2014	2015 ¹	2016 ²
Mining and quarrying	1,000	990	1,000	893	908
Manufacturing	47,856	51,787	53,274	53,436	53,630
Sugar milling	958	810	641	583	775
EOE	19,157	20,328	20,704	20,968	20,163
Non-EOE (excl. sugar milling)	27,741	30,649	31,929	31,885	32,692
Electricity, gas, steam and air conditioning supply	4,306	4,722	5,511	7,083	8,429
Water supply; sewerage, waste management and remediation activities	1,220	1,294	1,340	1,442	1,490
The Industrial Sector	54,382	58,793	61,125	62,854	64,458

¹ Revised ² Provisional

Figure 1 : Value Added at Current Basic Prices in the Manufacturing Sector - 2016

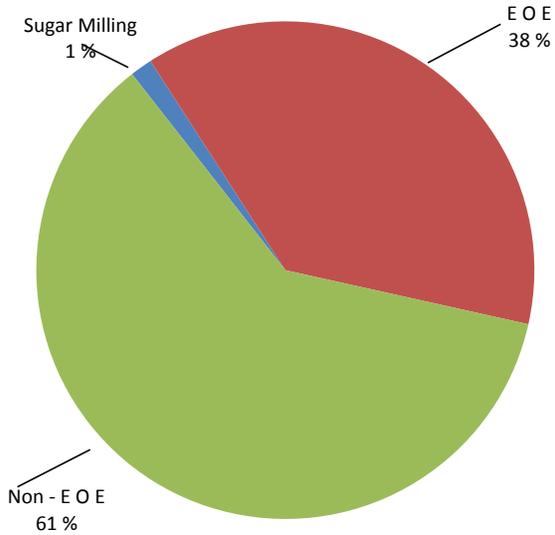


Figure 2 : Performance of main industry groups and growth rate (%) of the Industrial Sector (2012 - 2016)

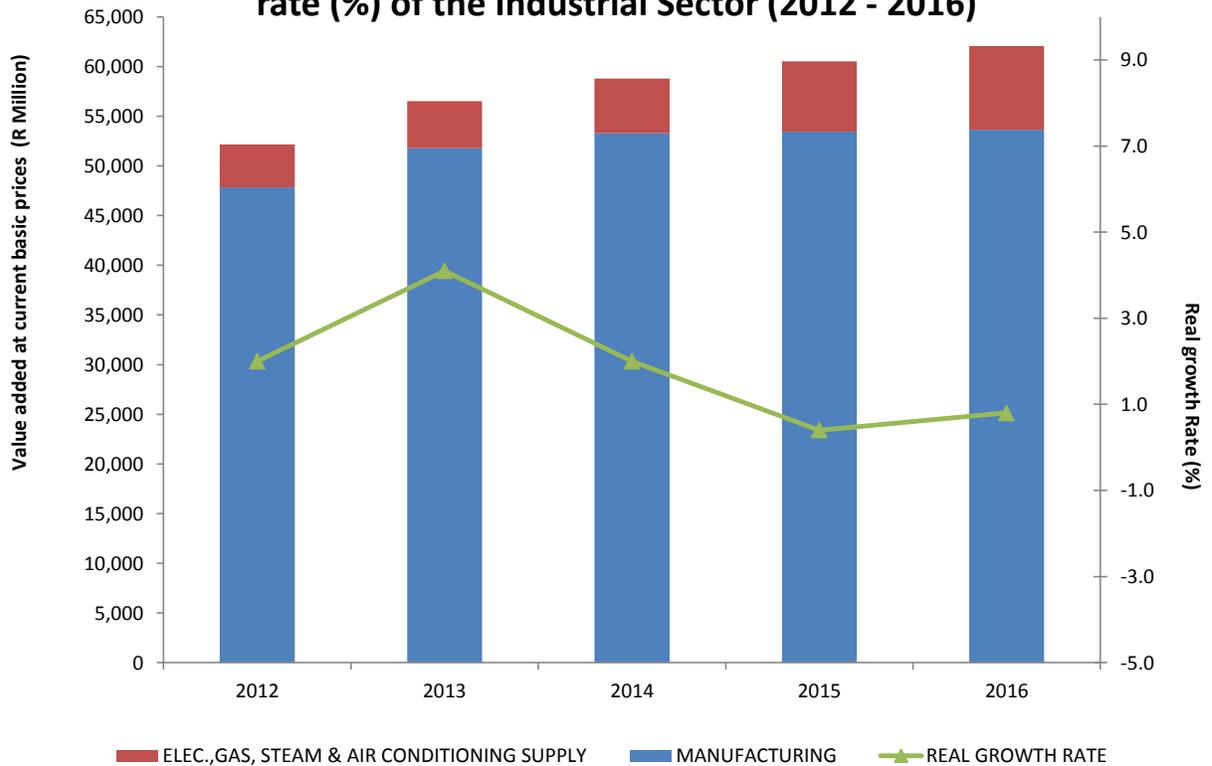


Table 1.5 - Value added at constant 2006 prices, of the Industrial Sector by industry group, 2012 - 2016

	R Million				
Industry group	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
Mining and quarrying	585	558	544	526	532
Manufacturing	40,005	41,888	42,639	42,661	42,799
Sugar milling	1,352	1,357	1,368	1,299	1,389
EOE	19,132	18,557	19,020	18,431	17,491
Non-EOE (excl. sugar milling)	19,704	21,710	22,004	22,488	23,334
Electricity, gas, steam and air conditioning supply	3,207	3,347	3,481	3,615	3,766
Water supply; sewerage, waste management and remediation activities	929	952	980	1,010	1,030
Industrial Sector	44,806	46,745	47,644	47,793	47,935

¹ Revised ² Provisional

Table 1.6 - Annual real growth rate of the Industrial Sector by industry group, 2012 - 2016

Industry group	2012	2013	2014	2015 ¹	2016 ²
Mining and quarrying	-8.2	-4.6	-2.5	-3.4	+ 1.0
Manufacturing	+ 2.1	+ 4.7	+ 1.8	+ 0.1	+ 0.3
Sugar milling	-5.8	-0.4	+ 0.8	-5.1	+ 7.0
EOE	+ 1.4	-3.0	+ 2.5	-3.1	-5.1
Non-EOE (excl. sugar milling)	+ 2.8	+ 10.2	+ 1.3	+ 2.2	+ 3.8
Electricity, gas, steam and air conditioning supply	+ 4.5	+ 4.4	+ 4.0	+ 3.8	+ 4.2
Water supply; sewerage, waste management and remediation activities	+ 2.2	+ 2.5	+ 3.0	+ 3.0	+ 2.0
Industrial Sector	+ 2.0	+ 4.1	+ 2.0	+ 0.4	+ 0.8

¹ Revised ² Provisional

Table 1.7 - Investment at current and constant 2006 prices in the Industrial Sector, 2012 - 2016

R Million

Industry group	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
1. Investment at current prices in the industrial sector	13,006	12,010	13,317	13,726	13,700
Mining and quarrying	375	400	52	31	17
Manufacturing	5,179	4,865	5,958	3,738	3,851
Electricity, gas, steam and air conditioning supply	5,224	4,120	3,499	3,985	4,915
Water supply; sewerage, waste management and remediation activities	2,228	2,625	3,808	5,972	4,917
2. Investment at constant prices in the industrial sector	10,001	9,147	9,978	10,053	9,806
Mining and quarrying	289	309	39	23	12
Manufacturing	3,971	3,713	4,495	2,766	2,749
Electricity, gas, steam and air conditioning supply	4,077	3,199	2,686	3,006	3,591
Water supply; sewerage, waste management and remediation activities	1,664	1,926	2,758	4,258	3,454

¹ Revised ² Provisional

Table 1.8 - Number of large establishments¹ by Industry group, March 2012 - March 2016

NSIC	Industry group	2012 ²	2013 ²	2014 ²	2015 ²	2016 ³
05-09	Mining and quarrying	25	24	24	23	23
10-33	Manufacturing	646	630	615	607	590
10	Food products	108	108	106	107	106
11	Beverages	16	16	16	14	13
13	Textiles	34	33	31	31	32
14	Wearing apparel	156	152	143	139	134
15	Leather and related products	12	12	12	12	12
152	<i>Of which: Footwear</i>	6	6	6	6	6
16	Wood and of products of wood and cork, except furniture; Articles of straw and	12	12	10	9	9
17	Paper and paper products	15	13	13	13	13
18	Printing and reproduction of recorded media	38	37	40	39	36
19-21	Coke and refined petroleum products / Chemicals and chemical products / Basic	34	34	35	35	34
22	Rubber and plastic products	32	33	33	32	32
23	Other non-metallic mineral products	15	15	15	15	14
24	Basic metals	5	5	5	5	5
25	Fabricated metal products, except machinery and equipment	54	50	50	50	46
26	Computer, electronic and optical products	14	15	15	14	14
27	Electrical equipment	8	9	9	9	8
28	Machinery and equipment n.e.c.	3	2	3	3	3
29-30	Motor vehicles, trailers and semi-trailers / Other transport equipment	9	9	7	6	6
31	Furniture	31	32	30	29	29
32	Other	43	36	35	38	37
321	<i>Of which: Jewellery, bijouterie and related articles</i>	25	20	19	20	19
33	Repair and installation of machinery and equipment	7	7	7	7	7
35	Electricity, gas, steam and air conditioning supply	7	7	7	7	7
36-39	Water supply; sewerage, waste management and remediation activities	14	14	11	10	10
05-39	Industrial Sector	692	675	657	647	630

¹ Excluding government ministries and departments ² Revised ³ Provisional

Source: Survey of Employment and Earnings

Table 1.9 - Employment in large establishments¹ by Industry group, March 2012 - March 2016

						Number
NSIC	Industry group	2012 ²	2013 ²	2014 ²	2015 ²	2016 ³
05-09	Mining and quarrying	975	1,020	1,046	1,035	1,043
10-33	Manufacturing	73,859	74,166	74,292	73,087	71,195
10	Food products	11,047	11,281	11,524	11,752	11,422
11	Beverages	2,634	2,634	2,686	2,500	2,332
13	Textiles	4,699	5,355	5,256	5,312	5,468
14	Wearing apparel	37,117	36,921	37,305	36,588	35,574
15	Leather and related products	717	737	705	746	723
16	Wood and of products of wood and cork, except furniture; Articles of straw and plaiting materials	599	623	563	403	393
17	Paper and paper products	590	585	675	647	650
18	Printing and reproduction of recorded media	1,853	1,843	1,768	1,781	1,660
19-21	Coke and refined petroleum products / Chemicals and chemical products / Basic pharmaceutical products and pharmaceutical preparations	2,524	2,456	2,378	2,414	2,401
22	Rubber and plastic products	1,419	1,439	1,390	1,353	1,351
23	Other non-metallic mineral products	1,373	1,204	1,243	914	840
24	Basic metals	496	472	450	436	400
25	Fabricated metal products, except machinery and equipment	2,043	2,010	1,834	1,829	1,749
26	Computer, electronic and optical products	1,410	1,329	1,247	1,268	1,194
27	Electrical equipment	301	293	340	320	290
28	Machinery and equipment n.e.c.	281	252	261	205	193
29-30	Motor vehicles, trailers and semi-trailers / Other transport equipment	485	437	291	232	192
31	Furniture	837	853	883	844	863
32	Other	2,897	2,805	2,842	2,855	2,788
321	<i>Of which: Jewellery, bijouterie and related articles</i>	<i>1,554</i>	<i>1,443</i>	<i>1,438</i>	<i>1,468</i>	<i>1,373</i>
33	Repair and installation of machinery and equipment	537	637	651	688	712
35	Electricity, gas, steam and air conditioning supply	2,373	2,384	2,323	2,275	2,331
36-39	Water supply; sewerage, waste management and remediation activities	1,920	1,916	1,904	1,966	1,903
05-39	Industrial Sector	79,127	79,486	79,565	78,363	76,472

¹ Excluding government ministries and departments ² Revised ³ Provisional
 Source: Survey of Employment and Earnings

Table 1.10 - Production account of the Industrial Sector by industry group, 2014

R Million

NSIC	Industry group	Gross output at basic prices	Intermediate Consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
05-09	Mining and quarrying	2,602.1	1,602.1	1,000.0	472.0	20.6	507.4
10-33	Manufacturing	134,154.8	80,880.7	53,274.1	21,308.2	309.4	31,635.9
	<i>(a) Large establishments</i>	<i>115,371.6</i>	<i>72,077.5</i>	<i>43,294.1</i>	<i>18,561.2</i>	<i>268.0</i>	<i>24,464.9</i>
10	Food products (incl. sugar)	40,822.2	31,391.8	9,430.4	2,525.5	55.2	6,849.7
11	Beverages	12,497.2	5,018.8	7,478.4	1,095.8	47.0	6,335.6
13	Textiles	8,103.1	5,513.1	2,590.0	1,695.5	16.3	878.3
14	Wearing apparel	24,836.7	13,246.0	11,590.7	7,852.0	72.8	3,665.9
15	Leather and related products	2,899.3	1,661.5	1,237.8	677.5	7.8	552.5
152	<i>Of which: Footwear</i>	<i>80.0</i>	<i>42.1</i>	<i>37.9</i>	<i>17.5</i>	<i>0.2</i>	<i>20.2</i>
16	Wood and of products of wood and cork, except furniture;	120.2	29.9	90.3	37.9	0.6	51.8
17	Paper and paper products	1,469.5	936.7	532.8	209.1	3.3	320.3
18	Printing and reproduction of recorded media	1,777.8	986.3	791.5	351.2	5.0	435.3
19-21	Coke and refined petroleum products / Chemicals and chemical products / Pharmaceutical products and pharmaceutical preparations	5,473.5	3,412.1	2,061.4	746.4	13.0	1,302.0
22	Rubber and plastic products	2,810.5	1,796.8	1,013.7	435.1	6.4	572.2
23	Other non-metallic mineral products	3,410.1	2,131.1	1,279.0	721.6	8.0	549.3
24	Basic metals	1,092.3	744.7	347.6	118.6	2.2	226.8
25	Fabricated metal products, except machinery and equipment	2,463.6	1,256.7	1,206.9	599.3	7.6	600.0
26	Computer, electronic and optical products	1,281.7	879.8	401.9	219.8	2.5	179.6
27	Electrical equipment	444.7	256.9	187.8	65.1	1.2	121.5
28	Machinery and equipment n.e.c.	786.6	296.5	490.1	168.4	3.1	318.7
29 - 30	Manufacture of motor vehicles, trailers and semi-trailers / Manufacture of other transport equipment	1,530.9	572.6	958.2	220.6	6.0	731.7
31	Furniture	1,131.3	732.5	398.7	204.3	2.5	191.9
32	Other	2,277.4	1,138.2	1,139.2	584.1	7.2	547.9
321	<i>Of which: Jewellery, bijouterie and related articles</i>	<i>854.0</i>	<i>339.4</i>	<i>514.5</i>	<i>238.0</i>	<i>3.2</i>	<i>273.4</i>
33	Repair and installation of machinery and equipment	143.1	75.6	67.5	33.6	0.4	33.6
	<i>(b) Other than large establishments</i>	<i>18,783.2</i>	<i>8,803.2</i>	<i>9,980.0</i>	<i>2,747.0</i>	<i>41.4</i>	<i>7,171.0</i>
35	Electricity, gas, steam and air conditioning supply	22,511.6	17,000.5	5,511.1	1,560.5	0.0	3,950.6
36-39	Water supply; sewerage, waste management and remediation activities	2,367.7	1,027.3	1,340.4	773.1	0.0	567.3
05-39	Industrial Sector	161,636.2	100,510.6	61,125.6	24,113.8	330.0	36,661.2

Table 1.11 - Production account of the Industrial Sector by industry group, 2015

R Million

NSIC	Industry group	Gross output at basic prices	Intermediate Consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
05-09	Mining and quarrying	2,587.5	1,694.8	892.7	423.0	19.1	450.6
10-33	Manufacturing	134,077.8	80,642.1	53,435.7	21,710.1	292.4	31,433.2
	<i>(a) Large establishments</i>	<i>114,337.3</i>	<i>71,331.6</i>	<i>43,005.7</i>	<i>18,927.2</i>	<i>235.0</i>	<i>23,843.5</i>
10	Food products (incl. sugar)	40,751.7	31,307.9	9,443.8	2,658.9	49.4	6,735.5
11	Beverages	12,376.1	5,157.0	7,219.1	1,002.7	39.9	6,176.5
13	Textiles	8,026.3	5,386.7	2,639.6	1,712.3	14.6	912.7
14	Wearing apparel	28,142.7	15,294.2	12,848.5	8,627.9	70.5	4,150.1
15	Leather and related products	613.7	360.8	252.9	146.2	1.6	105.1
152	<i>Of which: Footwear</i>	<i>78.8</i>	<i>42.3</i>	<i>36.5</i>	<i>17.2</i>	<i>0.2</i>	<i>19.1</i>
16	Wood and of products of wood and cork, except furniture; Articles of straw and plaiting materials	130.2	33.3	96.9	42.9	0.4	53.6
17	Paper and paper products	1,476.2	962.6	513.6	208.0	2.9	302.7
18	Printing and reproduction of recorded media	1,645.6	856.7	788.9	387.9	4.5	396.5
19-21	Coke and refined petroleum products / Chemicals and chemical products / Pharmaceutical products and pharmaceutical preparations	5,313.3	3,227.5	2,085.8	764.4	11.6	1,309.8
22	Rubber and plastic products	2,369.2	1,415.6	953.6	444.7	4.9	504.0
23	Other non-metallic mineral products	3,054.7	1,879.1	1,175.6	670.1	6.5	499.0
24	Basic metals	988.4	667.7	320.7	112.0	1.9	206.8
25	Fabricated metal products, except machinery and equipment	2,261.5	1,158.2	1,103.3	621.0	5.9	476.4
26	Computer, electronic and optical products	1,151.9	782.1	369.8	208.3	2.4	159.1
27	Electrical equipment	489.8	292.8	197.0	75.3	1.1	120.6
28	Machinery and equipment n.e.c.	668.7	53.5	615.2	190.2	3.4	421.6
29 - 30	Manufacture of motor vehicles, trailers and semi-trailers / Manufacture of other transport equipment	1,624.8	753.9	870.9	242.4	4.8	623.7
31	Furniture	882.1	524.8	357.3	196.9	2.0	158.4
32	Other	2,237.2	1,149.8	1,087.4	580.9	6.3	500.2
321	<i>Of which: Jewellery, bijouterie and related articles</i>	<i>1,018.7</i>	<i>533.5</i>	<i>485.2</i>	<i>234.7</i>	<i>3.1</i>	<i>247.4</i>
33	Repair and installation of machinery and equipment	133.2	67.4	65.8	34.2	0.4	31.2
	<i>(b) Other than large establishments</i>	<i>19,740.5</i>	<i>9,310.5</i>	<i>10,430.0</i>	<i>2,782.9</i>	<i>57.4</i>	<i>7,589.7</i>
35	Electricity, gas, steam and air conditioning supply	28,933.0	21,850.0	7,083.0	1,626.0	0.0	5,457.0
36-39	Water supply; sewerage, waste management and remediation activities	2,548.0	1,106.0	1,442.0	807.0	0.0	635.0
05-39	Industrial Sector	168,146	105,293	62,853	24,566	312	37,976

Table 1.12 - Distribution of value added - Manufacturing Sector , 2012 - 2016

Sector	2012		2013		2014		2015 ¹		2016 ²	
	Value	%	Value	%	Value	%	Value	%	Value	%
Sugar milling	958	2	810	2	641	1	583	1	775	1
Food (excluding sugar)	17,295	36	18,253	38	18,663	35	18,554	35	18,890	35
Textiles	14,529	30	15,517	32	16,118	30	16,700	31	15,826	30
Other	15,073	31	17,207	36	17,852	34	17,599	33	18,140	34
Manufacturing	47,856	100	51,787	100	53,274	100	53,436	100	53,631	100
<i>Of which:</i>										
E O E	19,157	40	20,328	39	20,704	39	20,968	39	20,163	38
Non - EOE (excl. sugar milling)	27,741	58	30,649	59	31,929	60	31,885	60	32,692	61

¹ Revised ² Provisional

Table 1.13 - Value added at current and constant prices per worker in the Manufacturing Sector, 2012 - 2016

	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
Value added at current prices per worker	491.8	517.4	532.2	537.0	551.2
Sugar milling	787.2	658.0	547.4	524.8	704.5
E O E	351.0	378.8	377.7	391.2	385.4
Non - E O E (excl. sugar milling)	668.5	678.0	723.8	711.9	744.9
Value added at constant prices per worker	412.0	418.5	426.0	428.8	439.9
Sugar milling	1,110.9	1,102.4	1,168.2	1,169.2	1,262.7
E O E	350.5	345.8	347.0	343.8	334.4
Non - E O E (excl. sugar milling)	474.8	480.3	498.8	502.1	531.7

Table 1.14 - Annual sectoral real growth rates - Manufacturing Sector, 2012 - 2016

	2012	2013	2014	2015 ¹	2016 ²
Sugar milling	-5.8	-0.4	+0.8	-5.1	+7.0
E O E	+1.4	-3.0	+2.5	-3.1	-5.1
Non - E O E (excl. sugar milling)	+2.8	+10.2	+1.3	+2.2	+3.8
Manufacturing	+2.1	+4.7	+1.8	+0.1	+0.3

¹ Revised ² Provisional

Table 1.15 - Production account of the Manufacturing Sector, 2014

R Million						
	Gross output at basic prices	Intermediate consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
Sugar milling	6,895	6,254	641	318	-	323
E O E	54,496	33,792	20,704	12,056	130	8,518
Non - E O E (excl. sugar milling)	72,764	40,835	31,929	8,934	179	22,816
Manufacturing	134,155	80,881	53,274	21,308	309	31,657

Table 1.16 - Production account of the Manufacturing Sector, 2015

R Million						
	Gross output at basic prices	Intermediate consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
Sugar milling	6,924	6,341	583	277	-	306
E O E	54,282	33,313	20,968	12,456	116	8,396
Non - E O E (excl. sugar milling)	72,872	40,988	31,885	8,977	176	22,731
Manufacturing	134,078	80,642	53,436	21,710	292	31,433

SECTION 2
QUARTERLY INDEX
OF
INDUSTRIAL PRODUCTION

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 aim 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: (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 have been 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 a Laspeyre's index as follows:

$$I_t = \frac{\sum W_i (Q_{it}/Q_{i0})}{\sum W_i} \times 100$$

with I_t = index for quarter t

W_i = weight for activity i

(Q_{it}/Q_{i0}) = 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

Table 2.1 - Index of Industrial production by industry group sector - annual and quarterly indices, Q₁ 2015 - Q₄ 2016

Base period: Year 2013 = 100

			Manufacturing						
	Industrial sector	Mining and quarrying	Total	Total exc. sugar milling	Sugar milling	EOE	Non-EOE	Electricity, gas, steam and air conditioning supply	Water supply; sewerage, waste management & remediation
NSIC Division/Subclass	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									
2015	101.9	94.3	101.9	102.0	95.7	99.3	103.7	108	106.1
2016	102.2	95.1	102.2	102.2	102.4	94.3	107.4	112.5	108.2
Quarterly									
2015 Q1	91.3	76.3	91.3	91.6	67.2	89.0	93.2	118.6	106.9
Q2	100.3	92.6	100.3	100.3	105.8	104.2	97.7	106.2	106.4
Q3	102.7	99.7	102.7	102.6	105.4	103.6	102.1	89.9	103.0
Q4	113.3	108.4	113.3	113.4	104.3	100.6	121.7	117.4	108.0
2016 Q1	89.9	74.8	89.9	90.1	71.9	87.9	91.6	126.9	108.1
Q2	100.2	95.7	100.2	100.0	113.2	91.7	105.5	110.4	108.5
Q3	103.8	100.6	103.8	103.7	112.8	103.0	104.1	92.6	107.1
Q4	115.0	109.3	115.0	115.1	111.6	94.7	128.5	120.0	109.2

Table 2.2 - Index of Industrial production of the manufacturing sector by main industry group, Q₁ 2015 - Q₄ 2016

Base period: Year 2013 = 100

Main industrial grouping											
	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											
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											
2015 Q1	91.3	96.7	92.9	85.9	88.3	111.7	85.7	66.9	86.7	117	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

Table 2.3 - Index of Industrial production of the EOE sector by main industry group, Q₁ 2015 - Q₄ 2016

Base period: Year 2013 = 100

Main industrial grouping							
	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							
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							
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	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

Table 2.4 - Index of Industrial production of the Non-EOE sector (excl. sugar) by main industry group, Q₁ 2015 - Q₄ 2016

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 2007)	1000	252	245	49	33	64	80	94	77	106
Annual										
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										
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

SECTION 3

LABOUR PRODUCTIVITY

AND

UNIT LABOUR COST

PRODUCTIVITY AND UNIT LABOUR COST INDICES

Explanatory Notes

Introduction

This section relates to a set of productivity and competitiveness indices for the manufacturing sector. Separate series have been worked out as follows:

- (a) Manufacturing including sugar
- (b) EOE Sector only

The indices cover all production units irrespective of size.

Labour productivity

Labour productivity is conventionally measured as the ratio of real output to labour input. Although this measure relates output to the number of employees, it does not measure the specific contribution of labour as a single factor of production. Rather, it reflects the joint effects of many influences, including new technology, capital investment, capacity utilisation, energy use, and managerial skills, as well as the efforts of the workforce.

Labour productivity index shows the rate of change in output per person engaged.

$$\text{Labour Productivity Index} = \frac{\text{Output index}}{\text{Labour input index}} \times 100$$

Capital productivity

Capital productivity is the ratio of real output to stock of fixed capital used in the production process. This index should be interpreted with care since partial measures can be very misleading if taken alone, as they include amongst other factors, the effects of the substitution of one resource for another, such as capital for labour.

The capital productivity index shows the rate of change in output per unit of capital.

$$\text{Capital Productivity Index} = \frac{\text{Output index}}{\text{Capital input index}} \times 100$$

Multifactor/Total Factor productivity

The limitation of partial productivity measures such as labour and capital, is that they attribute to one factor of production changes in efficiency that are attributable to other factors. Multifactor productivity (MFP) reflects many influences including qualitative factors such as better management and improved quality of inputs through training and technology.

MFP index shows the rate of change in “productive efficiency” and is obtained as the ratio of output to multifactor input, that is a weighted combination of labour and capital inputs.

$$\text{MFP index} = \frac{\text{Output index}}{\text{Multifactor input index}} \times 100$$

$$A(t) = \frac{Q(t)}{\{WL(t) \times L(t)\} + \{WK(t) \times K(t)\}} \times 100 \text{ where}$$

$A(t)$ = Multifactor productivity index in time t

$Q(t)$ = Output index in time t

$WL(t)$ = Labour’s input share in time t (ratio of compensation of employees to value added)

$L(t)$ = Labour input index in time t

$$WK(t) = 1 - WL(t)$$

$K(t)$ = Capital input index in time t

Unit labour cost index (ULC)

Unit labour cost is the remuneration of labour (compensation of employees) to produce one unit of output. It is computed as the ratio of the labour cost index to an index of production. The index shows the rate of change in labour cost per unit of output.

$$\text{Unit labour cost index} = \frac{\text{Labour cost index}}{\text{Output index}} \times 100 \text{ or } \frac{\text{Average compensation index}}{\text{Labour Productivity index}} \times 100$$

Table 3.1 - Productivity trends of the Manufacturing Sector, 2012 - 2016

Year 2007 = 100

Index	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
Real output (A)	110	116	118	118	118
Labour input	88	90	90	89	87
Labour Productivity	126	128	131	132	134
Capital input	93	90	90	86	83
Capital Productivity	119	128	130	137	142
Multifactor productivity	123	128	131	133	137
Labour cost (B)	128	133	139	141	144
Unit labour cost (B / A)	116	115	118	119	123

Table 3.2 - Productivity trends of the EOE Sector, 2012 - 2016

Year 2007 = 100

Index	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
Real output (A)	115	111	114	111	105
Labour input	82	81	82	80	80
Labour Productivity	141	138	139	137	130
Capital input	71	71	76	73	72
Capital Productivity	162	157	151	151	145
Multifactor productivity	149	146	144	143	136
Labour cost (B)	128	132	139	142	144
Unit labour cost (B / A)	112	119	122	128	137

¹ Revised ² Provisional

SECTION 4

SUGAR

SECTOR

Table 4.1 - Main aggregates of sugar milling, 2012 - 2016

Indicator	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
1. Establishments (Number)	7	6	6	5	5
2. Employment ² (Number)	1,306	1,323	1,263	1,202	1,100
3. Quantity of sugar produced ('000 Tonnes)	409.2	404.7	400.2	366.1	386.3
4. Quantity of sugar exported ('000 Tonnes)	358.0	421.0	422.0	438.0	445.0
5. Value added at basic prices (R Million)	958.0	810.0	641.0	583.0	775.0
6. Value added at constant 2006 prices (R Million)	1,352.0	1,357.0	1,368.0	1,299.0	1,389.0
7. Annual Growth Rate	-5.8	-0.4	0.8	-5.1	7.0
8. Compensation of employees (R Million)	320.0	310.0	318.0	277.0	340.0

¹ Revised ² Provisional

³ Source : Survey of Employment and Earnings

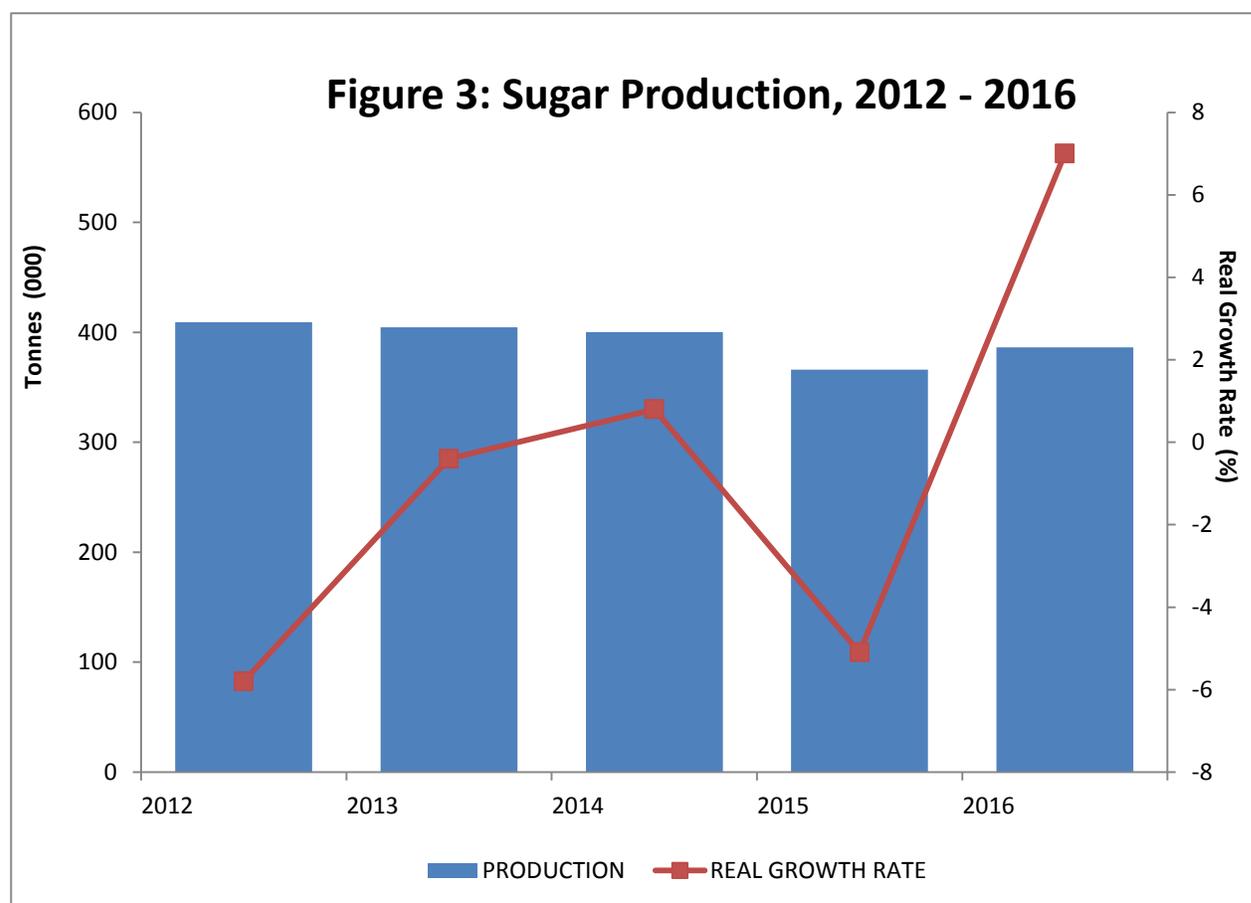


Table 4.2 - Production account - Sugar milling, 2012 - 2016

						R Million
Year	Employment ³	Gross output at basic prices ⁴	Intermediate consumption	Value added at basic prices	Compensation of employees	Gross operating surplus
2012 ¹	1,306	8,056	7,098	958	310	648
2013 ¹	1,323	7,201	6,391	810	315	495
2014 ¹	1,263	6,895	6,254	641	318	323
2015 ¹	1,202	6,924	6,341	583	277	306
2016 ²	1,100	7,370	6,595	775	340	435

¹ Revised ² Provisional

³ Source: Survey of employment and Earnings

⁴ Includes gross output of sugar cane cultivation

Table 4.3 - Supply and disposal of Sugar, 2012 - 2015

	2012	2013	2014	2015
Stock at beginning of year (000'MT)	288.1	312	276	251.8
Production (000'MT)	409.2	404.7	400.2	366.1
Imports (000'MT)	18.6	29.8	46.4	92.5
Available supplies ¹ (000'MT)	715.9	746.5	722.6	710.4
Exports (000'MT)	357.7	420.9	420.6	438.3
Domestic consumption (000'MT)	37.3	37.6	37.5	38.1
Loss or surplus in storage (000'MT)	-8.9	-12	-12.7	-14.8
Stock at end of year (000'MT)	312	276	251.8	219.2
Average ex-syndicate price ² (R / tonne)	17,574	15,830	12,694	13,000

¹ Includes imports of sugar for domestic consumption.

² Relates to price received for export and domestic sales of sugar produced in the crop year, net of all marketing expenses, taxes and levies, and before deducting Sugar Fund premium Insurance

Source : The Mauritius Sugar Syndicate

Table 4.4 - Sugar exports by main market, crop year 2011/2012 - 2015/2016

Destination	2011/12			2012/13			2013/14 ¹			2014/15 ¹			2015/16 ²		
	Qty	Value	Average prices	Qty	Value	Average prices	Qty	Value	Average prices	Qty	Value	Average prices	Qty	Value	Average prices
	000' MT	R Million	R/ tonne	000' MT	R Million	R/ tonne	000' MT	R Million	R/ tonne	000' MT	R Million	R/ tonne	000' MT	R Million	R/ tonne
European Union	410	8,666	21,173	380	8,952	23,550	403	8,461	20,995	357	5,682	15,915	378	6,226	16,470
U.S.A.	14	314	23,764	10	260	26,000	5	120	24,000	5	105	21,000	8	165	20,625
World market	21	466	23,142	20	512	25,600	21	555	26,428	50	882	17,640	32	657	20,530
Total exports	445	9,446	21,227	410	9,724	23,717	429	9,136	21,296	412	6,669	16,186	418	7,048	16,861

¹ Revised ² Provisional

Source : The Mauritius Sugar Syndicate

SECTION 5

E O E

SECTOR

Table 5.1 - Growth rates and ratios - EOE Sector, 2012 - 2016

	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
1. Annual real growth rate of EOE (value added)	+ 1.4	-3.0	+ 2.5	-3.1	-5.1
2. Annual real growth of EOE exports ³	-1.0	-1.8	+ 9.5	-2.3	-9.1
3. Export price index (EPI) (Year 2013 = 100)	+ 6.9	+ 4.5	-2.4	+ 1.1	+ 1.1
Ratios (%)					
4. Share of value added of EOE of the economy	6.2	6.2	5.9	5.8	5.2
5. Share of value added of the EOE of the manufacturing sector	40.0	39.3	38.9	39.0	37.5
6. EOE exports to total exports	57.3	53.1	51.8	52.0	53.2
7. EOE imports to total imports	16.6	17.7	16.6	16.4	15.5
8. EOE investments to manufacturing investment	20.6	39.7	45.3	30.5	32.6
9. Value added to Gross Output	38.0	37.8	38.0	38.6	n.a
10. Value added to Exports	42.0	43.5	42.2	43.0	45.2
11. Compensation of employees to value added	57.0	56.4	58.2	59.4	n.a

¹ Revised ² Provisional

³ Nominal value of exports adjusted for prices using the Export Price Index (EPI)

Figure 4 : Performance of the EOE Sector, 2012 - 2016

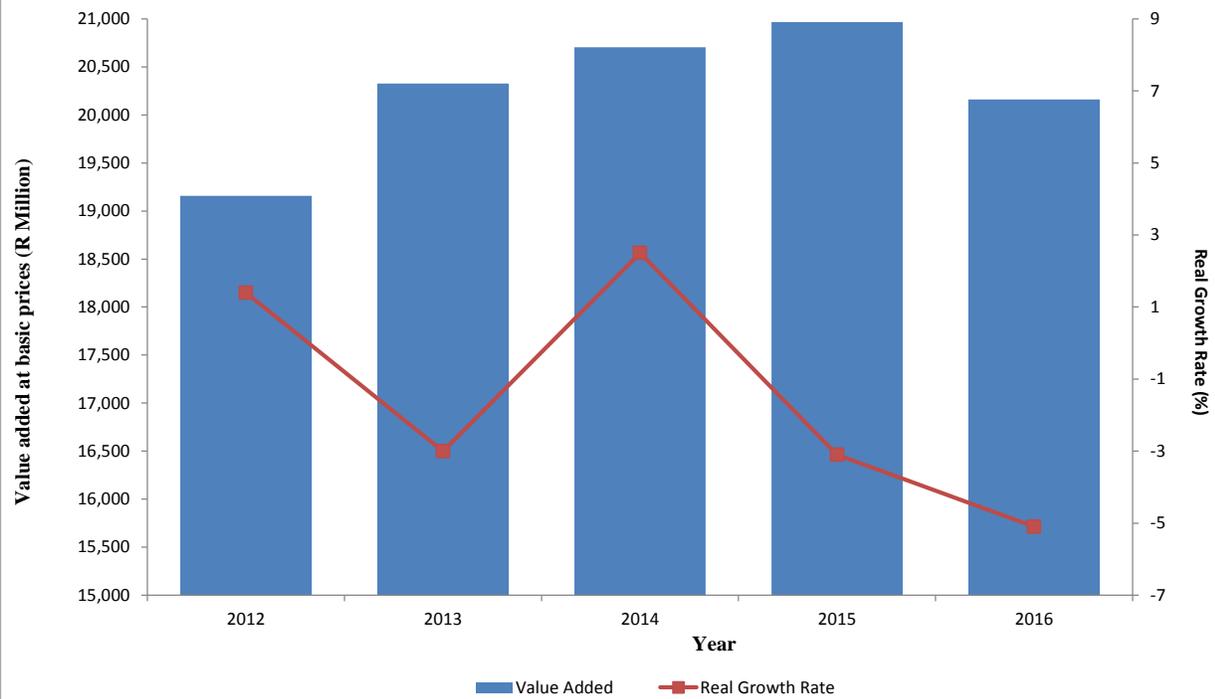


Figure 5 : Performance of the EOE exports, 2012 - 2016

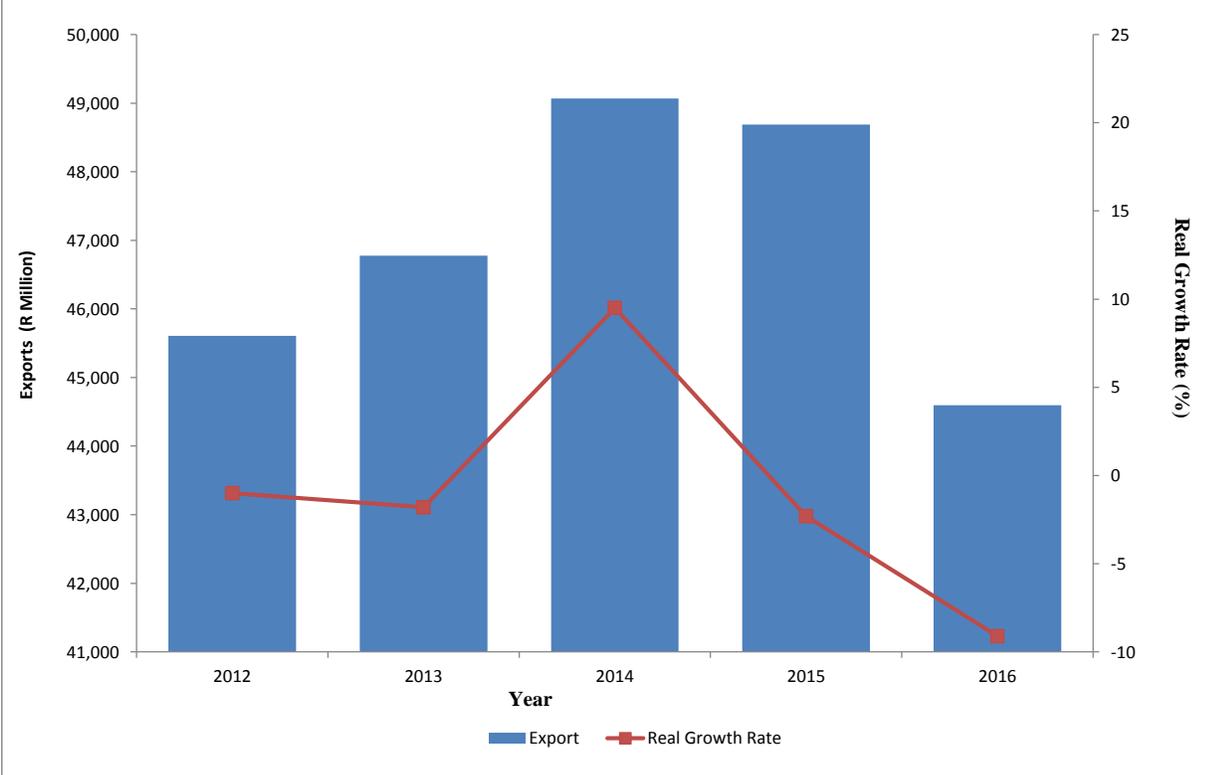


Table 5.2 - Main aggregates - EOE Sector, 2012 - 2016

Indicator	2012	2013	2014¹	2015¹	2016²
1. Enterprises ³ as at December (Number)	330	309	300	284	280
- New	1	2	8	1	-
- Closures	23	23	17	17	4
2. Employment ³ as at December (Number)	54,583	53,663	54,813	53,601	52,311
- Net change	-1,063	-920	1,150	-1,212	-1,290
- Growth rate (%)	-1.9	-1.7	+2.1	+2.2	-2.4
3. Exports (f.o.b, R Million)	45,606	46,778	49,069	48,487	44,597
4. Imports (c.i.f, R Million)	26,665	29,340	28,596	27,312	25,681
- <i>Raw materials</i>	25,435	27,850	27,001	25,835	24,298
- <i>Machinery & spare parts</i>	1,230	1,490	1,595	1,477	1,383
5. Net Exports (R Million)	18,941	17,438	20,473	21,175	18,916
6. Net Exports to Exports (%)	41.5	37.3	41.7	43.7	42.4
7. Value added at basic prices (R Million)	19,157	20,328	20,704	20,968	20,163
- Share in Manufacturing (%)	40.0	39.3	38.9	39.0	37.5
- Share in GDP (%)	6.2	6.2	5.9	5.7	5.2
8. Annual Growth rate of value added (%)	+1.4	-3.0	+2.5	-3.1	-5.1
9. Investment (R Million)	1,066	1,930	2,700	1,140	1,254
- <i>Machinery</i>	988	1,101	1,686	636	750

¹ Revised ² Provisional

³ Source: Quarterly survey of employment in the EOE Sector

Table 5.3 - Employment by product group and sex in the EOE sector, December 2015 - December 2016

Product group	December 2015				December 2016			
	No of Enterprises	Employment			No of Enterprises	Employment		
		Male	Female	Total		Male	Female	Total
1. Food	22	2,001	3,271	5,272	22	2,043	3,280	5,323
2. Flowers	6	52	61	113	6	44	54	98
3. Textile yarn and fabrics	24	3,199	565	3,764	24	3,119	501	3,620
4. Wearing apparel:	108	16,491	19,697	36,188	106	16,873	18,693	35,566
<i>Pullovers</i>	17	1,453	1,248	2,701	16	1,380	991	2,371
<i>Other garments</i>	91	15,038	18,449	33,487	90	15,493	17,702	33,195
5. Leather products and footwear	5	160	419	579	5	154	431	585
6. Wood and paper products	10	331	304	635	10	313	295	608
7. Optical goods	2	172	232	404	2	185	214	399
8. Electronic watches and clocks	5	251	317	568	5	231	294	525
9. Electric and electronic products	6	81	149	230	5	75	119	194
10. Jewellery and related articles	15	473	848	1,321	14	430	637	1,067
11. Toys and carnival articles	2	18	230	248	2	20	241	261
12. Other	79	2,214	2,065	4,279	79	2,155	1,910	4,065
TOTAL	284	25,443	28,158	53,601	280	25,642	26,669	52,311

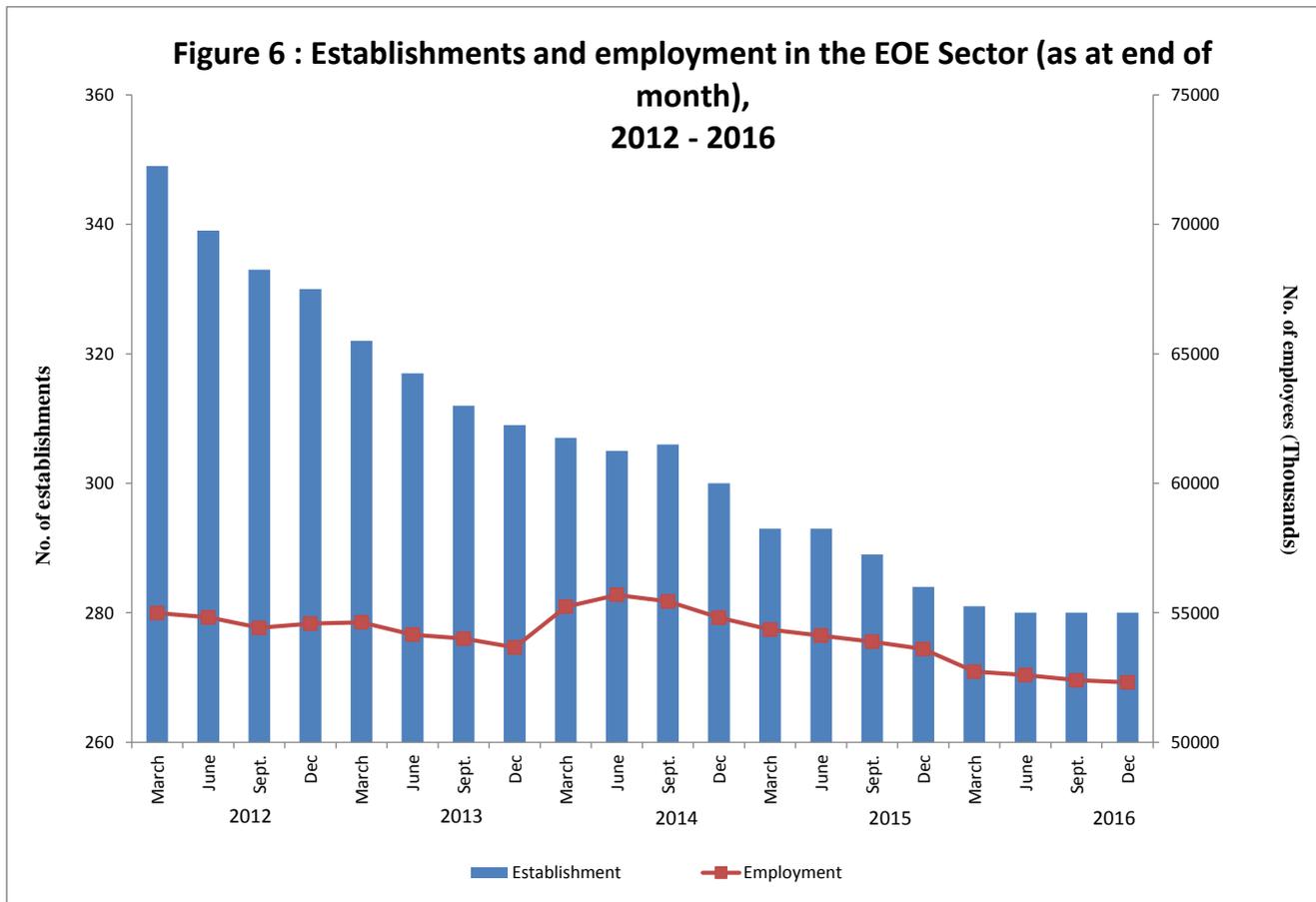


Table 5.4 - Production account of the EOE Sector by industry group, 2014

R Million							
NSIC	Industry group	Gross output at basic prices	Intermediate consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
10 -11	Food products & beverages	12,456.3	9,689.9	2,766.3	782.0	17.4	1,967.0
1311-1312	Preparation and spinning of textiles fibres / weaving of textile	4,733.5	3,211.9	1,521.7	1,067.4	9.6	444.7
1313	Finishing of textiles	2,647.1	1,967.7	679.4	381.8	4.3	293.4
139	Other textiles	323.5	141.6	181.9	127.0	1.1	53.8
141	Wearing apparel, except fur apparel	24,107.7	12,878.3	11,229.3	7,588.2	70.5	3,570.6
143	Knitted and crocheted apparel	2,239.1	1,275.6	963.5	523.6	6.0	433.9
15	Leather and related products	590.9	356.5	234.4	131.1	1.5	101.8
162	Products of wood, cork, straw and plaiting materials	88.5	23.1	65.3	27.5	0.4	37.4
17-18	Paper and paper products / Printing and reproduction of recorded media	898.6	485.6	413.0	119.3	2.6	291.1
20-21	Chemicals and chemical products / Basic pharmaceutical products and pharmaceutical preparations	816.9	549.9	267.0	77.8	1.7	187.4
22-23	Rubber and plastic products / Non-metallic mineral products	1,433.5	982.8	450.7	181.3	2.8	266.7
25	Fabricated metal products, except machinery and equipment	616.2	243.3	372.9	241.0	2.3	129.5
26	Computer, electronics and optical products	1,224.9	840.7	384.2	209.7	2.4	172.2
26520	Watches & clocks	750.6	531.1	219.6	115.9	1.4	102.3
27	Electrical equipment	254.7	164.7	90.0	33.5	0.6	55.9
30-31	Other transport equipment and furniture	95.9	51.8	44.1	28.0	0.3	15.8
32-33	Other / Repair and installation of machinery and equipment	1,968.2	928.1	1,040.1	536.9	6.5	496.7
321	<i>Of which: Jewellery, bijouterie and related articles</i>	857.2	364.2	493.1	233.8	3.1	256.1
3240	<i>Games and toys</i>	70.3	9.7	60.6	37.4	0.4	22.8
10 - 33	EOE Sector	54,495.5	33,791.6	20,703.9	12,056.0	130.0	8,517.9

Table 5.5 - Production account of the EOE Sector by industry group, 2015

R Million							
NSIC	Industry group	Gross output at basic prices	Intermediate consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
10 -11	Food products & beverages	11,715.7	8,944.5	2,771.2	833.0	15.5	1,922.7
1311-1312	Preparation and spinning of textiles fibres / weaving of textile	4,410.6	2,979.2	1,431.4	1,018.6	8.5	404.3
1313	Finishing of textiles	2,895.3	2,079.2	816.1	464.5	3.8	347.8
139	Other textiles	305.6	138.1	167.5	115.5	1.0	50.9
141	Wearing apparel, except fur apparel	25,337.9	13,709.4	11,628.5	7,902.6	62.9	3,663.1
143	Knitted and crocheted apparel	2,076.0	1,249.8	826.2	451.3	5.4	369.6
15	Leather and related products	543.3	333.4	209.9	120.8	1.3	87.9
162	Products of wood, cork, straw and plaiting materials	107.7	25.1	82.6	36.1	4.0	46.2
17-18	Paper and paper products / Printing and reproduction of recorded media	939.3	551.1	388.2	126.2	2.3	259.8
20-21	Chemicals and chemical products / Basic pharmaceutical products and pharmaceutical preparations	758.2	495.2	263.0	85.1	1.5	176.3
22-23	Rubber and plastic products / Non-metallic mineral products	1,146.5	637.3	509.2	236.5	2.5	270.2
25	Fabricated metal products, except machinery and equipment	692.1	270.0	422.1	286.2	2.1	133.8
26	Computer, electronics and optical products	1,088.4	738.2	350.2	196.8	2.3	151.1
26520	Watches & clocks	599.5	424.5	175.0	95.6	1.4	78.1
27	Electrical equipment	260.6	179.2	81.4	33.9	0.5	47.0
30-31	Other transport equipment and furniture	57.3	37.7	19.6	12.2	0.1	7.3
32-33	Other / Repair and installation of machinery and equipment	1,947.0	946.1	1,000.9	537.3	5.8	457.8
321	<i>Of which: Jewellery, bijouterie and related articles</i>	781.7	356.9	424.8	207.2	2.8	214.9
3240	<i>Games and toys</i>	79.4	10.9	68.5	43.4	0.3	24.8
10 - 33	EOE Sector	54,281.5	33,313.5	20,968.0	12,456.4	116.0	8,395.6

Table 5.6 - Ratio of value added to exports by main product group in the EOE Sector, 2014 - 2015

Main product group	2014	2015
Food	24.4	23.0
Textile yarn and fabrics	77.9	83.0
Wearing apparel	51.4	57.8
Chemicals	14.5	20.0
Professional goods	62.9	60.1
Jewellery and related articles	33.4	35.3
Other	30	39.9
EOE Sector	42.7	47.0

Table 5.7 - Labour cost¹ per worker by main product group in the EOE Sector, 2015

		R Thousand
NSIC	Industry group	2015
10-11	Food products & beverages	155.7
1311-1312	Preparation and spinning of textiles fibres / weaving of textile	288.1
1313	Finishing of textiles	412.9
139	Other textiles	454.7
141	Wearing apparel, except fur apparel	243.5
143	Knitted and crocheted apparel	159.4
15	Leather and related products	211.1
162	Products of wood, cork, straw and plaiting materials	113.9
17-19	Paper and paper products / Printing and reproduction of recorded media / Coke and refined petroleum products	185.3
20-21	Chemicals and chemical products / Basic pharmaceutical products and pharmaceutical preparations	425.6
22-23	Rubber and plastic products / Non-metallic mineral products	601.7
25	Fabricated metal products, except machinery and equipment	929.3
26	Computer, electronics and optical products	178.7
26520	<i>Of which: Watches and clocks</i>	<i>161.7</i>
27	Electrical equipment	201.9
30-31	Other transport equipment and furniture	135.6
32-33	Other / Repair and installation of machinery and equipment	215.9
321	<i>Of which: Jewellery, bijouterie and related articles</i>	<i>163.8</i>
3240	<i>Games and toys</i>	<i>187.7</i>
10 - 33	EOE Sector	240.2

¹ Compensation of employees used as a proxy for labour cost

Table 5.8 - Ratio of value added to gross output by main industry group in the EOE sector (%), 2014-2015

NSIC	Industry group	2014	2015
10-11	Food products & beverages	22.2	23.7
1311-1312	Preparation and spinning of textiles fibres / weaving of textile	32.1	32.5
1313	Finishing of textiles	25.7	28.2
139	Other textiles	56.2	54.8
141	Wearing apparel, except fur apparel	46.6	45.9
143	Knitted and crocheted apparel	43.0	39.8
15	Leather and related products	39.7	38.6
162	Products of wood, cork, straw and plaiting materials	73.8	76.7
17-18	Paper and paper products / Printing and reproduction of recorded media	46.0	41.3
20-21	Chemicals and chemical products / basic pharmaceutical products and pharmaceutical preparations	32.7	34.7
22-23	Rubber and plastic products / non-metallic mineral products	31.4	44.4
25	Fabricated metal products / computer, electronic and optical products / electrical equipment	60.5	61.0
26	Computer, electronics and optical products	31.4	32.2
26520	<i>Of which: Watches & clocks</i>	29.2	29.2
27	Electrical equipment	35.3	31.2
30-31	Other transport equipment and furniture	45.9	34.2
32-33	Other / Repair and installation of machinery and equipment	52.8	51.4
321	<i>Of which: jewellery, bijouterie and related articles</i>	57.5	54.3
3240	<i>Games and toys</i>	86.3	86.3
10 - 33	EOE Sector	38.0	38.6

Table 5.9 - Net EOE Exports, 2012 - 2016

Value : R Million

Item	2012	2013	2014	2015 ¹	2016 ²
A. Total exports (f.o.b)	45,606	46,778	49,069	48,487	44,597
B. Total imports (c.i.f)	26,665	29,340	28,596	27,312	25,681
<i>Raw materials</i>	25,435	27,850	27,001	25,835	24,298
<i>Machinery</i>	1,230	1,490	1,595	1,477	1,383
Net Exports (A - B)	18,941	17,438	20,473	21,175	18,916
Net Exports as % of Total Exports	41.5	37.3	41.7	43.7	42.4

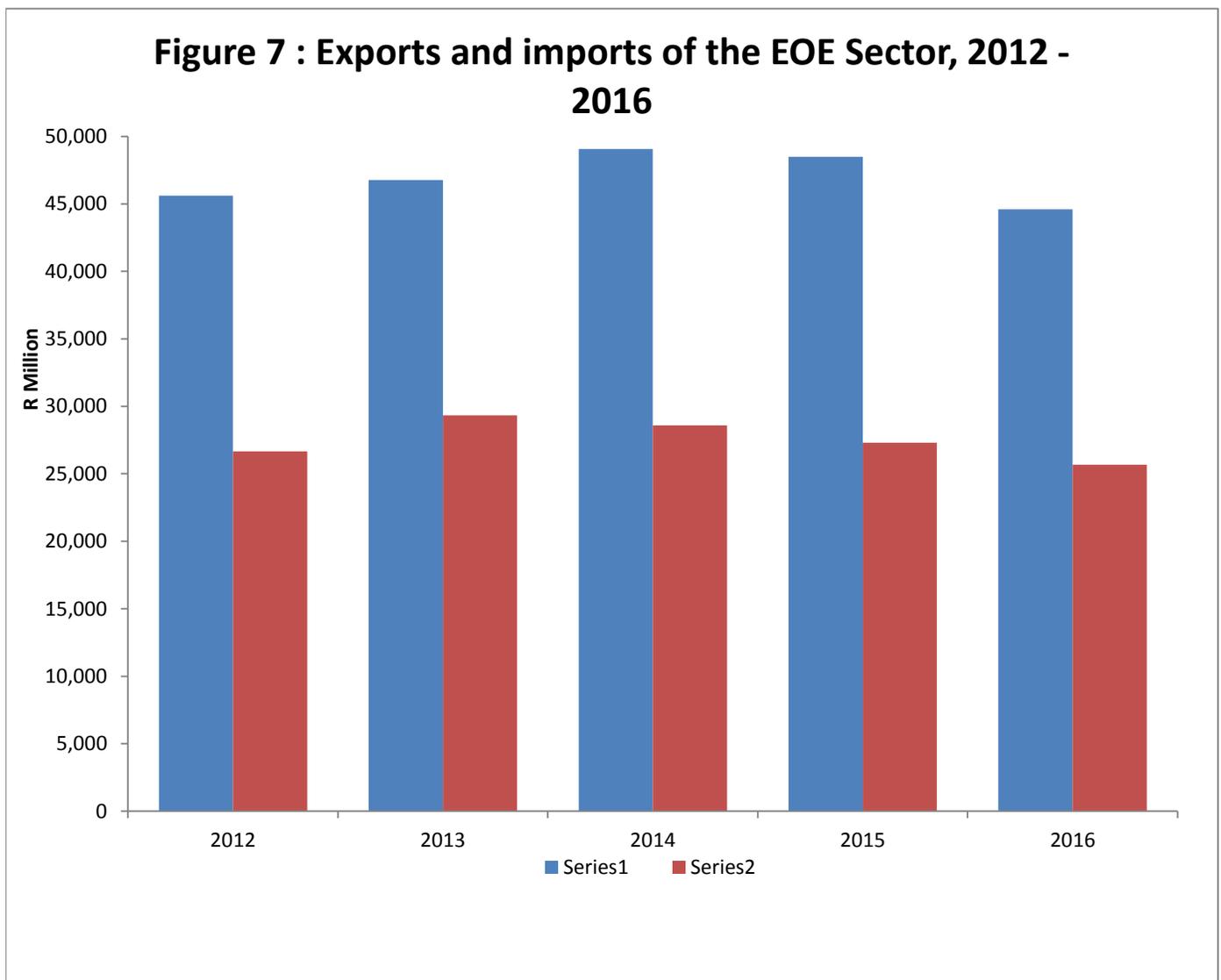
¹ Revised ² Provisional

Table 5.10 - EOE exports of selected commodities by section, 2012-2016

Value (F.o.b): R Million

SITC section/description	2012	2013	2014	2015 ¹	2016 ²
Total EOE Exports	45,606	46,778	49,069	48,487	44,597
0 - Food and live animals	11,616	12,374	12,552	10,993	11,624
of which :					
Live animals other than fish	584	511	701	656	676
Fish & fish preparations	10,806	11,618	11,089	9,549	10,211
Cereals and cereal preparations	150	182	219	197	192
2 - Crude materials, inedible, except fuels	207	184	157	176	302
5 - Chemicals and related products, n.e.s.	339	333	416	373	341
of which :					
Medicaments (including Veterinary medicaments)	228	152	165	184	172
6 - Manufactured goods classified chiefly by material	4,874	5,947	7,160	7,675	5,741
of which :					
Paper, paperboard and articles	123	90	63	52	58
Textile yarn, fabrics, made up articles	2,329	2,748	2,963	3,060	2,908
Glass	73	139	216	96	1
Pearls, precious & semi-precious stones	1,999	2,606	3,554	4,108	2,541
Iron and steel	257	258	222	194	25
7 - Machinery and transport equipment	322	305	278	507	280
8 - Miscellaneous manufactured articles	27,988	27,470	28,175	28,420	25,857
of which :					
Travel goods, handbags and similar containers	359	383	399	375	313
Articles of apparel and clothing	22,841	22,474	23,492	23,706	21,552
Optical goods	296	223	254	256	226
Watches and clocks	763	729	736	674	673
Printed matter	120	142	135	106	131
Articles, n.e.s. of plastics	502	506	532	639	550
Toys, games and sporting goods	205	180	187	215	185
Jewellery, goldsmiths & silversmiths wares	1,768	1,608	1,450	1,476	1,203
Other sections	260	165	331	343	452

¹ Revised ² Provisional

Table 5.11 - EOE exports by country of destination, 2012 - 2016

Value (F.o.b): R Million

Country of destination	2012	2013	2014	2015 ¹	2016 ²
Total EOE Exports	<u>45,606</u>	<u>46,778</u>	<u>49,069</u>	<u>48,487</u>	<u>44,597</u>
Europe	28,395	28,253	27,921	25,358	24,915
Austria	307	279	314	153	25
Belgium	1,561	1,503	1,672	1,249	916
France	7,767	7,357	8,060	6,704	6,561
Germany	792	775	504	394	566
Italy	1,775	2,739	2,336	2,229	2,727
Netherlands	936	1,537	1,715	1,944	2,074
Portugal	151	166	91	232	467
Spain	3,146	2,259	2,017	1,704	2,035
Switzerland	783	704	763	916	867
United Kingdom	10,475	9,784	9,282	8,750	7,528
Other	702	1,150	1,167	1,083	1,149
Asia	1,433	2,598	4,261	4,862	3,937
China	96	96	248	268	287
Hong Kong (S.A.R) ³	127	126	121	114	139
India	203	232	158	115	128
Japan	163	113	845	427	403
Sri Lanka	27	29	24	24	11
Vietnam	-	-	-	2,989	1,994
Other	817	2,002	833	925	975
Africa	8,962	8,515	8,040	9,078	7,720
Malagasy, Republic of	1,763	1,914	2,166	2,416	2,184
Reunion	416	349	420	332	295
Seychelles	123	232	100	98	96
South Africa, Republic of	6,223	5,577	5,054	5,887	4,919
Other	437	443	300	345	226
America	6,582	7,196	8,558	8,851	7,660
Canada	155	205	247	337	311
Panama	155	94	103	146	122
U.S.A	6,120	6,746	7,910	8,140	7,057
Other	152	151	298	228	170
Oceania	234	216	289	338	365
Australia	233	214	276	324	349
New Zealand	-	1	12	14	16
Other	-	-	1	-	-

¹ Revised ² Provisional ³ Special Administrative Region of China

Table 5.12 - EOE Re-exports of selected commodities by section, 2013 - 2016

Value (F.o.b): R Million

SITC section/description	2012	2013	2014	2015	2016 ¹
Total EOE Re-exports	<u>2,185</u>	<u>1,855</u>	<u>2,010</u>	<u>1,910</u>	<u>1,779</u>
0 - Food and live animals	597	287	330	59	187
of which :					
Fish & fish preparations	596	287	330	59	187
2 - Crude materials, inedible, except fuels	15	18	16	28	147
5 - Chemicals and related products, n.e.s.	167	162	214	44	32
of which :					
Medicaments (including Veterinary medicaments)	130	123	130	6	5
6 - Manufactured goods classified chiefly by material	136	107	67	113	79
of which :					
Textile yarn and fabrics	99	47	23	39	34
7 - Machinery & transport equipment	219	192	174	415	120
of which :					
Textile and leather machinery and parts thereof, n.e.s.	74	104	61	237	12
8 - Miscellaneous manufactured articles	803	934	953	975	848
of which :					
Articles, n.e.s. of plastics	472	482	479	546	416
Other sections	248	155	256	276	366

¹ Provisional

Table 5.13 - EOE imports of selected commodities by section, 2012 - 2016

Value (C.i.f): R Million

SITC section/description	2012	2013	2014	2015 ¹	2016 ²
Total EOE Imports	<u>26,665</u>	<u>29,340</u>	<u>28,596</u>	<u>27,312</u>	<u>25,681</u>
0 - Food and live animals	7,737	8,326	7,172	5,858	7,237
of which :					
Meat and meat preparations	311	277	382	407	315
Fish & fish preparations	7,341	7,939	6,643	5,302	6,719
2 - Crude materials, inedible, except fuels	2,201	2,414	2,296	2,571	2,117
of which :					
Cotton	1,385	1,374	1,353	1,778	1,216
Synthetic fibres suitable for spinning	244	249	170	154	141
Wool and other animal hair	302	445	413	331	391
3 - Mineral fuels, lubricants and related products	5	7	4	7	5
5 - Chemicals and related products, n.e.s.	1,641	1,487	1,553	1,431	1,443
6 - Manufactured goods classified chiefly by material	10,401	12,042	12,584	12,828	10,226
of which :					
Leather	431	562	599	499	345
Paper, paperboard and articles	313	392	365	435	471
Textile yarn and fabrics	5,334	5,950	5,937	5,948	5,331
Pearls, precious and semi-precious stones	2,353	2,965	3,633	3,762	2,453
Iron and steel	645	765	559	761	459
Non-ferrous metals	274	219	169	176	159
7 - Machinery & transport equipment	1,230	1,490	1,595	1,477	1,383
Machinery specialized for particular industries	570	949	1,048	931	811
8 - Miscellaneous manufactured articles	2,885	3,077	2,734	2,407	2,276
of which :					
Optical goods, watches & clocks	562	553	483	482	494
Printed matter	180	233	233	227	211
Articles, n.e.s. of plastics	338	388	402	373	388
Jewellery, goldsmiths & silversmiths wares	1,020	1,015	592	444	365
Other sections	565	497	658	733	994

¹ Revised ² Provisional

Table 5.14 - EOE imports by country of origin, 2012 - 2016

Value (C.i.f): R Million

Country of origin	2012	2013	2014	2015 ¹	2016 ²
Total EOE Imports	26,665	29,340	28,596	27,312	25,681
Europe	12,664	12,486	11,587	9,446	9,801
Belgium	660	575	603	503	643
France	4,075	3,917	3,912	2,985	3,452
Germany	452	408	384	361	380
Italy	797	993	927	938	939
Netherlands	1,146	332	201	37	49
Spain	4,024	4,701	3,713	2,838	2,901
Sweden	26	9	4	7	3
Switzerland	675	560	469	322	356
United Kingdom	344	353	338	363	296
Other	465	638	1,036	1,092	782
Asia	9,086	10,232	10,397	10,252	9,306
China	3,765	4,836	5,066	5,132	4,410
Hong Kong (S.A.R) ³	384	401	419	434	351
India	1,647	1,891	1,796	1,813	1,798
Indonesia	995	885	740	805	667
Japan	109	125	220	132	79
Korea, Republic of	200	208	171	160	79
Malaysia	260	203	224	209	173
Pakistan	264	246	355	250	105
Singapore	128	124	161	123	98
Thailand	809	732	629	673	634
Other	525	581	616	521	912
Africa	2,615	3,974	3,747	5,112	5,285
Burkina Faso	18	5	12	40	62
Malagasy, Republic of	125	268	512	511	236
Mali	7	5	59	4	36
Seychelles	418	1,429	1,064	1,766	2,510
South Africa, Republic of	414	512	492	439	363
Zambia	247	138	101	-	-
Other	1,386	1,617	1,507	2,352	1,883
America	1,298	1,310	1,480	1,337	599
Brazil	105	87	55	32	36
U.S.A	368	327	245	191	138
Canada	-	-	1,142	1,060	409
Other	825	896	38	54	16
Oceania	1,002	1,338	1,385	1,165	690
Australia	396	819	1,030	750	304
Other	606	519	355	415	386

¹ Revised ² Provisional ³ Special Administrative Region of China

Table 5.15 - Geographical distribution of EOE establishments ¹ and employment - December 2015

District / Locality	Industrial Group				Total Employment
	Food	Textile	Other	Total	
Port Louis	7	15	25	47	2,396
<i>of which:</i>					
Plaine Lauzun	1	6	3	10	888
Port Louis city	5	5	12	22	732
Pamplemousses	8	20	22	50	8,184
<i>of which:</i>					
Terre Rouge & Riche Terre	3	4	11	18	5,552
Tombeau Bay		5	1	6	677
Triolet		3	1	4	698
Rivière du Rempart	1	16	17	34	6,908
<i>of which:</i>					
St. Antoine & Goodlands		6	12	18	2,928
Rivière du Rempart & Ile d'Ambre		5	1	6	3,454
Flacq		14	2	16	1,735
<i>of which:</i>					
Central Flacq		3		3	878
Bel Air		1		1	90
Grand Port		5	7	12	870
<i>of which:</i>					
Rose Belle & New Grove			2	2	304
Mahebourg		1	2	3	64
Savanne	1	7	2	10	4,571
<i>of which:</i>					
Surinam		1		1	846
Rivière des Anguilles			1	1	202
Plaine Wilhems	3	51	33	87	20,725
<i>of which:</i>					
Coromandel		12	8	20	2,322
Beau Bassin & Rose Hill		7		7	3,940
Vacoas & Phoenix	1	13	4	18	7,915
Quatre Bornes		8	5	13	1,523
Curepipe, Floreal & Forest Side	2	11	10	23	4,009
Moka		10	12	22	3,117
<i>of which:</i>					
Pailles		3	7	10	490
St. Pierre & Moka		3	3	6	570
Black River	2	4	10	16	5,095
<i>of which:</i>					
Medine & Bambous			1	1	37
All Districts	22	142	130	294	53,601

¹ The number of establishments is greater than the number of enterprises as an enterprise can have one or more establishments.

Table 5.16 - Geographical distribution of EOE establishments¹ and employment - December 2016

District / Locality	Industrial Group				Total Employment
	Food	Textile	Other	Total	
Port Louis	7	15	24	46	2,309
<i>of which:</i>					
Plaine Lauzun	1	6	3	10	861
Port Louis city	5	5	12	22	754
Pamplemousses	8	20	22	50	8,057
<i>of which:</i>					
Terre Rouge & Riche Terre	3	4	11	18	5,526
Tombeau Bay	-	5	1	6	693
Triplet	-	3	1	4	681
Rivière du Rempart	1	16	17	34	6,652
<i>of which:</i>					
St. Antoine & Goodlands	-	6	11	17	2,769
Rivière du Rempart & Ile d'Ambre	-	5	2	7	3,416
Flacq	-	14	2	16	1,815
<i>of which:</i>					
Central Flacq	-	3	-	3	913
Bel Air	-	1	-	1	87
Grand Port	-	5	7	12	838
<i>of which:</i>					
Rose Belle & New Grove	-	-	2	2	266
Mahebourg	-	1	2	3	75
Savanne	1	7	2	10	4,826
<i>of which:</i>					
Surinam	-	1	-	1	802
Rivière des Anguilles	-	-	1	1	243
Plaine Wilhems	3	49	32	84	19,481
<i>of which:</i>					
Coromandel	-	10	8	18	2,010
Beau Bassin & Rose Hill	-	6	-	6	3,491
Vacoas & Phoenix	1	14	4	19	8,360
Quatre Bornes	-	8	5	13	1,428
Curepipe, Floreal & Forest Side	2	11	10	23	3,407
Moka	-	10	12	22	2,918
<i>of which:</i>					
Pailles	-	3	7	10	504
St. Pierre & Moka	-	3	3	6	563
Black River	2	4	10	16	5,415
<i>of which:</i>					
Medine & Bambous	-	-	1	1	37
All Districts	22	140	128	290	52,311

¹ The number of establishments is greater than the number of enterprises as an enterprise can have one or more establishments.

Table 5.17 - Distribution of EOE enterprises¹ and employment by employment size - December 2015

Employment size	No. of enterprises			No. of persons employed		
	Number	%	Cum. %	Number	%	Cum. %
Under 10	55	19	19	232	-	-
10 - 50	112	39	59	2,767	5	6
51 - 100	43	15	74	3,115	6	11
101 - 300	43	15	89	7,504	14	25
301 - 500	10	4	93	4,071	8	33
501 - 1000	10	4	96	6,105	11	44
1001 and above	11	4	100	29,807	56	100
All Sizes	284	100		53,601	100	

¹ An enterprise may have several establishments. Data given in this table refer to all enterprises operating in the EOE sector irrespective of size and product.

Source : Quarterly survey of Employment in the EOE Sector.

Table 5.18 - Distribution of EOE enterprises¹ and employment by employment size - December 2016

Employment size	No. of enterprises			No. of persons employed		
	Number	%	Cum. %	Number	%	Cum. %
Under 10	60	22	22	243	-	-
10 - 50	107	38	60	2,740	5	5
51 - 100	42	15	75	2,972	6	11
101 - 300	42	15	90	7,416	14	25
301 - 500	11	4	94	4,720	9	34
501 - 1000	6	2	96	3,416	7	41
1001 and above	12	4	100	30,804	59	100
All Sizes	280	100		52,311	100	

¹ An enterprise may have several establishments. Data given in this table refer to all enterprises operating in the EOE sector irrespective of size and product.

Source : Quarterly survey of Employment in the EOE Sector.

SECTION 6

NON EOE

SECTOR

(Excluding Sugar Milling)

Table 6.1 - Main aggregates of the Non-EOE sector, 2012 - 2016

Main aggregates	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ²
Establishments - March ³ (Number)	389	384	383	377	365
Employment - March ³ (Number)	21,311	21,433	21,243	20,750	20,124
Value added basic prices (R Million)	27,741	30,649	31,929	31,885	32,692
Annual real growth rate (%)	+2.8	+10.2	+1.3	+2.2	+3.8
Share of value added of Non-EOE in the economy (%)	9.9	10.4	9.2	8.9	7.5
Share of value added of Non-EOE in the manufacturing sector (%)	64.0	65.8	59.9	59.9	61.0

¹ Revised ² Provisional

³ Source: Survey of Employment and Earnings and refer to large establishments (employing 10 or more persons)

Table 6.2 - Production account of Non-EOE Sector (excluding Sugar) by industry group , 2014

R Million							
NSIC	Industry group	Gross output at basic prices	Intermediate consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
	(a) Large establishments	53981.1	32031.9	21,949.2	6,187.2	138.0	15,624.0
10	Food products (excl. sugar)	21605.4	15498.7	6,106.7	1,445.5	38.4	4,622.8
11-12	Beverages and tobacco products	12362.7	4967.9	7,394.8	1,075.8	46.5	6,272.5
13	Textiles	399.0	192.0	207.1	119.3	1.3	86.5
14	Wearing apparel	723.7	365.1	358.6	262.3	2.3	94.1
15	Leather and related products	74.7	32.1	42.6	24.3	0.3	18.1
16-17	Wood and of products of wood and cork,etc. / Paper and paper products	834.9	534.1	300.8	135.4	1.9	163.5
18	Printing and reproduction of recorded media	1,545.6	910.1	635.5	316.1	4.0	315.4
19-20	Coke and refined petroleum products/ Chemicals and chemical products	4,655.9	2,861.9	1,794.0	668.3	11.3	1,114.4
21-22	Basic pharmaceutical and pharmaceutical preparations / Rubber and plastic products	1,745.8	1,068.1	677.7	275.4	4.3	398.1
23	Other non-metallic mineral products	3,394.9	2,125.4	1,269.5	716.0	8.0	545.5
239	<i>Of which : Non-metallic mineral products n.e.c</i>	<i>3,320.2</i>	<i>2,086.1</i>	<i>1,234.1</i>	<i>699.4</i>	<i>7.8</i>	<i>526.9</i>
24	Basic metals	739.3	496.6	242.8	102.8	1.5	138.4
25	Fabricated metal products, exc. machinery and equipment	1,847.4	1,013.3	834.0	358.3	5.2	470.5
26-27	Computer, electronic and optical products & electrical equipment	274.9	149.9	125.0	48.0	0.8	76.2
28	Machinery and equipment n.e.c	558.2	138.2	419.9	127.2	2.6	290.1
29-30	Motor vehicles, trailers and semi-trailers and other transport equipment	1,704.3	706.2	998.1	241.5	6.3	750.3
31	Furniture	1,062.2	686.8	375.4	190.2	2.4	182.8
32	Other	309.2	210.1	99.1	47.2	0.6	51.3
33	Repair and installation of machinery and equipment	143.1	75.6	67.5	33.6	0.4	33.6
	(b) Other than large establishments	18,783.2	8,803.2	9,980.0	2,747.0	41.4	7,171.0
10 - 33	Total Non - EOE (excluding Sugar)	72,764.3	40,835.1	31,929.2	8,934.2	179.4	22,795.0

Table 6.3 - Production account of Non-EOE Sector (excluding Sugar) by industry group , 2015

							R Million
NSIC	Industry group	Gross output at basic prices	Intermediate consumption	Value added at basic prices	Compensation of employees	Taxes on production	Gross operating surplus
	(a) Large establishments	53,131.9	31,677.2	21,454.6	6,194.1	119.0	15,141.5
10	Food products (excl. sugar)	22,274.7	16,083.9	6,190.8	1,574.7	34.3	4,581.8
11-12	Beverages and tobacco products	12,213.5	5,095.5	7,118.0	977.0	39.5	6,101.6
13	Textiles	414.8	190.2	224.6	113.7	1.2	109.6
14	Wearing apparel	728.8	335.1	393.7	274.1	2.2	117.5
15	Leather and related products	70.4	27.4	42.9	25.5	0.2	17.2
16-17	Wood and of products of wood and cork,etc. / Paper and paper products	793.9	523.9	269.9	119.1	1.5	149.3
18	Printing and reproduction of recorded media	1,411.0	752.6	658.4	357.4	3.7	297.3
19-20	Coke and refined petroleum products/ Chemicals and chemical products	4,555.1	2,732.2	1,822.8	679.6	10.1	1,133.1
21-22	Basic pharmaceutical and pharmaceutical preparations / Rubber and plastic products	1,540.4	998.2	542.2	226.4	3.0	312.8
23	Other non-metallic mineral products	3,044.4	1,875.3	1,169.2	666.2	6.5	496.5
239	<i>Of which : Non-metallic mineral products n.e.c</i>	<i>2,978.1</i>	<i>1,839.7</i>	<i>1,138.4</i>	<i>653.0</i>	<i>6.3</i>	<i>479.0</i>
24	Basic metals	681.0	451.6	229.4	97.7	1.3	130.4
25	Fabricated metal products, exc. machinery and equipment	1,569.4	888.1	681.3	334.8	3.8	342.7
26-27	Computer, electronic and optical products & electrical equipment	292.7	157.4	135.3	52.9	0.8	81.6
28	Machinery and equipment n.e.c	668.7	53.5	615.2	190.2	3.4	421.6
29-30	Motor vehicles, trailers and semi-trailers and other transport equipment	1,624.8	753.9	870.9	242.4	4.8	623.7
31	Furniture	824.9	487.2	337.7	184.7	1.9	151.1
32	Other	290.2	203.7	86.5	43.6	0.5	42.4
33	Repair and installation of machinery and equipment	133.2	67.4	65.8	34.2	0.4	31.2
	(b) Other than large establishments	19,740.5	9,310.5	10,430.0	2,782.9	57.4	7,589.7
10 - 33	Total Non - EOE (excluding Sugar)	72,872.3	40,987.7	31,884.6	8,977.0	176.4	22,731.2

SECTION 7
PRODUCTION DATA
OF
SELECTED
COMMODITIES

LOCAL PRODUCTION OF SELECTED COMMODITIES**DATA SOURCE**

Commodity	Source
1. Sugar and molasses	The Mauritius Chamber of Agriculture
2. Tea	National Agricultural Products Regulatory Office (NAPRO)
3. Poultry, animal feeds, iron bars, fertilizer, salt	Annual Survey of Receipts and Expenditure
4. Electricity	Central Electricity Board
5. Alcohol, denatured spirits, beer and stout, wine, and vinegar	Customs & Excise Department
6. Fish	Ministry of Ocean Economy, Marine Resources, Fisheries, Shipping and Outer Island

Table 7.1 - Local production of selected commodities, 2012 - 2015

	Unit	2012	2013	2014 ¹	2015 ²
Sugar	Tonnes	409,200	404,713	400,173	366,070
Molasses	"	125,131	126,601	138,441	132,244
Tea	"	1,577	1,563	1,504	1,295
Salt	"	3,800	3,800	3,800	1,800
Poultry meat	"	47,200	46,700	47,500	46,400
Animal feeds	"	195,000	191,000	177,000	185,000
Fertilizer	"	27,000	28,000	28,000	21,200
Fish	"	57,517	60,716	57,187	53,949
<i>Frozen</i>	"	1,718	2,035	1,746	1,286
<i>Salted, dried or smoked</i>	"	560	551	513	841
<i>Canned</i>	"	55,239	58,130	54,928	51,822
Iron bars & steel tubes	"	32,200	26,700	27,000	27,000
Denatured spirits ³ :	H_Litres	8,989	10,269	3,577	4,225
<i>Power alcohol</i>	"	1,496	1,792	709	479
<i>Alcohol for heating and lighting</i>	"	7,493	8,477	2,868	3,746
Beer and stout	"	345,881	336,242	339,176	353,141
Wine	"	43,561	46,437	46,678	45,087
Vinegar ³	"	1,541	1,654	1,007	1,088
Electricity generated	GWh	2,797	2,885	2,937	2,996

¹ Revised ² Provisional³ Source: Customs and Excise Department

Table 7.2 - Generation of electricity¹ by CEB and IPP, 2012 - 2015

Power station	2012	2013	2014	2015
Central Electricity Board	1,145.7	1,176.2	1,175.3	1,257.8
Hydro	74.1	94.8	90.8	121.9
Wind	3.6	3.6	3.2	2.7
Thermal	1,068.0	1,077.8	1,081.2	1,133.2
Independent Power Producers	1,651.5	1,709.1	1,761.7	1,737.8
Photovoltaic / Wind	0.9	2.7	24.6	25.9
Thermal	1,650.6	1,706.4	1,737.1	1,711.9
Total	2,797.1	2,885.3	2,936.9	2,995.6

¹ includes generation from photovoltaic and wind of SSDG and MSDG
Source: Central Electricity Board

Table 7.3 - Sales of Electricity by type of tariff, 2012 - 2015

	Domestic		Commercial		Industrial		Others		Total	
	Sales (GWh)	No . of Consumers								
2012	753.0	381,096	818.7	38,539	687.4	6,763	35.3	507	2,294.4	426,905
2013	780.8	388,910	852.0	39,199	715.2	6,703	36.1	550	2,384.1	435,362
2014	806.3	396,335	894.1	40,089	715.2	6,593	36.6	610	2,452.2	443,627
2015	831.0	404,463	915.8	41,124	720.1	6,381	38.5	637	2,505.4	452,605

Source: Central Electricity Board

SECTION 8

PRODUCER PRICE INDEX -

MANUFACTURING

(PPI-M)

Producer Price Index – Manufacturing (PPI-M)
Methodology for the computation of the PPI-M

1. Definition

The Producer Price Index (PPI-M) measures changes in the effective prices received by producers in the manufacturing sector for that part of their output, which is sold on the domestic market. It reflects the price trends of a fixed basket of goods representative of the output of Non Export Oriented Enterprises (Non EOE).

The concepts and definitions of the PPI-M largely follow the guidelines provided in the “IMF Producer Price Index Manual Theory and Practice”.

2. Scope

The PPI-M covers both large and small manufacturing establishments falling within divisions 10 to 33 of the National Standard Industrial Classification Rev.2 (NSIC Rev.2), which is an adapted version of the International Standard Industrial Classification (ISIC) Rev.4. The establishments are classified under 24 divisions, 71 groups, 137 classes and 240 sub-classes.

The following divisions have been excluded for reasons given in brackets:

- (a) Division 12: Manufacture of tobacco products (no longer manufactured in Mauritius)
- (b) Division 19: Manufacture of coke and refined petroleum products (weight in the overall index is not significant)
- (c) Division 21: Manufacture of basic pharmaceutical products and pharmaceutical preparations (weight in the overall index is not significant and change of products is too dynamic)
- (d) Division 26: Manufacture of computers, electronic and optical products (weight in the overall index is not significant and change of products is too dynamic)
- (e) Division 33: Repair and installation of machinery and equipment (weight in the overall index is not significant and change of products is too dynamic)

The activities covered by the index represent around 97% of the gross output generated by the Non-EOE manufacturing sector during year 2013.

3. Frame

A list of all large establishments (engaging 10 or more persons) falling under the scope of the PPI-M was obtained from the 2013 Census of Economic Activities (CEA 2013). For small establishments (engaging less than 10 persons), the list of respondents at the CEA 2013 was used.

4. Selection of establishments (producers)

A sample of 126 large establishments was selected from the list of large manufacturing establishments. Those establishments were the most important ones in terms of Gross Output (GO) in their respective 5-digit sub-class.

Small establishments selected for price collection were those engaged in the manufacture of wearing apparel, fabricated metal products and furniture as these activities were the most important ones performed by small manufacturing establishments.

Output of the selected establishments represented around 60% of the total GO generated by all establishments falling within the scope of the PPI-M.

5. Selection of products to be priced

Some 400 products have been selected for pricing. These are the most important ones in terms of contribution to the gross output or turnover of the selected establishments.

6. Price collection

Prices collected refer to the prices received by producers for the sale of their products on the local market. The prices exclude all taxes on products, namely excise duty and value added tax (VAT).

As from July 2013, prices are collected on a monthly basis and provisional monthly indices are compiled. The overall PPI-M on a monthly basis is published according to SDDS requirements.

For revised monthly and quarterly indices at division level and in some specific cases at even lower level, the selected establishments are visited on a quarterly basis and prices of the selected products are collected for each month of the reference quarter.

7. Updating of weights

Statistics Mauritius first published a Producers Price Index limited to the “Manufacturing of food products, beverages and tobacco” in March 1994 with 1993 as base period (1993 = 100). The index was revised in June 2002 to cover all relevant industry groups of the former Non-EPZ manufacturing sector, based on the results of the 1997 Census of Economic Activities. The base period was 1998. The base year was subsequently revised to 2003 and 2007, based on the results of the 2002 and 2007 rounds of the Census of Economic Activities.

The current basket of goods has been updated based on the results of the 2013 Census of Economic Activities and the index is computed with year 2013 as base period.

The weights for the current PPI-M have been calculated from the gross output figures derived from the 2013 Census of Economic Activities. Gross output is valued at basic prices, and thus excludes all taxes on products, namely excise duties and value added tax.

The weight of a product group represents the share of its gross output out of the total output of the manufacturing sector.

8. Index calculation

The PPI-M is computed according to the Laspeyres Formula.

The formula used is given below

$$I_c = \frac{\sum W_i * \left(\frac{P_{ci}}{P_{oi}}\right)}{\sum W_i} * 100$$

Where I_c = Index for current month

W_i = Weight associated with product i

P_{ci} = Price of product i for the current month

P_{oi} = Price for product i for the base period (2013)

The PPI-M is calculated at the 5-digit sub-class level of the NSIC Rev.2 by the above formula. The lowest level indices are determined as a geometric average of the price relatives of the basic observations. Indices at the division level (2-digit code) are then derived as a weighted average of the indices of the products falling within each division. Finally, the overall index is obtained as a weighted average of the division indices.

9. Uses of PPI

- (a) The PPI is a leading indicator of the future status of inflation. Movement of PPI is usually indicative of a similar change of part of the Consumer Price Index (CPI). PPI can also be used in the economic analysis of inflation transmission process.
- (b) It provides specific price deflators for the computation of national accounts at constant prices in order to measure real growth
- (c) It is helpful in the formulation of contract agreement. It can be used as an escalation clause to protect buyers and sellers against inflation or deflation.
- (d) PPI is also used in econometric models, in forecasting and in inventory accounting.

10. Missing prices

In case of temporarily missing prices for products, the change in the prices are assumed to be following the same trend as the average price in the 5-digit sub-class or of a higher level.

11. Treatment of product permanently disappeared

Products may disappear permanently for various reasons. The products may disappear from the market because new products have been introduced or the establishments from which the price has been collected have stopped selling the product. When a product disappears permanently, a replacement product of a similar nature will be included in the index.

12. Treatment of quality change

The index is a measure of only “PURE” price changes and should as far as possible measure the price changes of the same products. Hence, the products must not be affected by quality change. If the change is due to quality, an estimate of the proportion of the change attributed to the quality element is made and adjustment done accordingly.

13. Reliability of the PPI-M

The statistical accuracy of the PPI-M depends heavily on the quality of information provided by the selected establishments (respondents). This office places great emphasis on the need for reporting effective selling prices, i.e. prices after discounts and other price deductions rather than the list or catalogue prices.

Standard editing procedures are used to validate the accuracy and reliability of the data. Collected prices are validated during the field work and inconsistencies discussed with the respondents and corrected.

Further computer checks are made at office level when compiling the indices. Comparison is also made with the CPI and with the import/export price indices. Systematic analyzes of the source data are made in the context of weight and base year revisions that occur every five years.

Table 8.1 - Quarterly & yearly indices of the Manufacturing sector by industry group, 1st Quarter 2015 - 4th Quarter 2016

Base period: Year 2013=100

NSIC	Industry group	Weight	2015					2016				
			1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year Average	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year Average
10-33	Total manufacturing	1000	101.7	102.0	102.9	103.5	102.5	101.7	102.0	102.9	104.1	102.7
10/11	Food products and beverages	552	100.6	101.1	102.0	102.8	101.6	100.7	100.3	101.3	103.6	101.5
13	Textiles	6	102.6	103.0	103.2	103.2	103.0	102.6	103.2	103.2	103.2	103.0
14	Wearing apparel	34	118.1	118.2	118.6	118.8	118.4	118.1	118.8	118.8	118.9	118.7
15	Leather and related products	3	100.6	100.6	100.6	100.6	100.6	100.6	103.1	108.1	108.1	105.0
16/17	Wood and products of wood & cork; articles of straw and plaiting materials/ Paper and paper products	16	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.8	101.5	98.5
18	Printing and reproduction of recorded media	28	98.3	96.0	99.1	105.2	99.6	98.3	100.5	94.4	92.0	96.3
20	Chemicals and chemical products	69	100.8	101.4	103.7	104.5	102.6	100.8	105.2	105.7	106.3	104.5
22	Rubber and plastic products	31	102.6	104.3	105.8	105.8	104.6	102.6	105.6	109.2	109.2	106.7
23	Other non-metallic mineral products	52	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8	102.8
24	Basic metals	11	93.9	94.1	93.8	93.1	93.7	93.9	88.6	86.4	86.1	88.8
25	Fabricated metal products	76	106.0	105.9	105.8	106.0	105.9	106.0	106.0	105.9	105.8	105.9
27	Electrical equipment	2	96.0	98.2	98.2	98.2	97.6	96.0	98.2	98.2	98.2	97.6
28	Machinery and equipment, n.e.c	9	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
29	Motor vehicles, trailers and semi-trailers	5	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
30	Other transport equipment	16	93.2	95.7	103.6	98.1	97.7	93.2	101.4	117.2	109.1	105.2
31	Furniture	65	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.7	108.7	107.7
32	Other products	25	95.5	93.7	93.7	93.7	94.2	93.7	94.6	94.9	95.5	94.7

Table 8.2 - Quarterly & yearly indices for the Manufacturing of Food Products & Beverages by industry group, 1st Quarter 2015 - 4th Quarter 2016

Base period: Year 2013 = 100

NSIC	Industry group	Weight	2015					2016				
			1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year Average	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year Average
10-11	Total food products & beverages	552	100.6	101.1	102.0	102.8	101.6	100.7	100.3	101.3	103.6	101.5
101-108	Food products	375	98.4	99.0	99.9	101.1	99.6	98.5	97.4	98.6	99.6	98.5
1010	Processing and preserving of meat	97	99.1	99.6	99.7	101.7	100.0	99.6	99.8	102.2	104.2	101.4
1020	Processing and preserving of fish, crustaceans &	3	102.6	105.0	110.0	110.0	106.9	102.6	110.0	110.0	110.0	108.1
1030	Processing and preserving of fruits and vegetables	10	103.1	105.6	107.7	107.8	106.1	103.1	107.8	108.9	109.5	107.3
1040	Vegetable and animal oils and fats	30	87.8	87.8	87.8	87.8	87.8	87.8	85.4	86.6	86.6	86.6
1050	Dairy products	16	107.6	106.9	106.9	106.9	107.1	106.9	106.9	105.3	106.4	106.4
1061	Grain mill products	54	94.7	97.6	97.8	99.5	97.4	94.7	78.3	78.8	79.5	82.8
1071	Bakery products	73	104.9	105.1	108.1	109.5	106.9	104.9	109.8	111.7	111.9	109.6
10711/ 10712	<i>Bread/Pastries and cakes</i>	69	105.0	105.2	108.1	109.5	106.9	104.9	109.8	111.5	111.7	109.5
10713/ 10730	<i>Biscuits and other dry bakery products</i>	4	104.7	105.6	105.6	105.6	105.4	104.7	106.5	112.8	116.1	110.0
1074	Macaroni, noodles, couscous and similar farinaceous	11	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.5	100.5	100.4
1075	Prepared meals and dishes	2	106.8	106.8	106.8	106.8	106.8	106.8	114.9	114.9	114.9	112.8
1079	Other food products n.e.c	34	100.5	101.5	103.3	104.3	102.4	100.5	105.4	106.6	109.6	105.5
10791	<i>Tea</i>	5	71.4	71.4	71.4	73.7	71.9	71.4	76.1	76.1	80.8	76.1
10793/ 10799	<i>Spices, sauces, condiments and other food products n.e.c</i>	29	105.8	107.0	109.2	110.0	108.0	105.8	110.8	112.2	114.9	110.9
1080	Animal feed	45	91.0	90.3	90.3	90.3	90.5	91.0	89.3	89.3	89.3	89.7
110	Beverages	179	105.3	105.3	106.2	106.3	105.8	105.3	106.3	106.9	111.9	107.6
1101	Distilled potable alcoholic beverages	65	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	115.4	109.2
1102	Wines	13	111.9	111.9	120.3	120.3	116.1	111.9	120.3	120.4	125.3	119.5
1103	Malt liquors and malt including non alcoholic beer	74	103.5	103.5	104.2	104.5	103.9	103.5	104.5	105.9	107.8	105.4
1104	Soft drinks, mineral waters and other bottled waters	27	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	108.1	104.1

Table 8.3 - Quarterly & yearly indices for the Manufacture of Chemicals and Chemical Products & Rubber and Plastic products, by industry group, 1st Quarter 2015 - 4th Quarter 2016

Base period: Year 2013=100

NSIC	Industry group	Weight	2015					2016				
			1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year Average	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Year Average
20	Chemicals and chemical products	69	100.8	101.4	103.7	104.5	102.6	100.8	105.2	105.7	106.3	104.5
2011	Basic chemicals	9	100.0	100.0	101.8	101.8	100.9	100.0	104.4	104.4	104.4	103.3
2012	Manufacture of fertilizers and nitrogen compounds	8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
2022	Paints, varnishes and similar coatings, printing ink and mastics	26	102.3	102.3	106.4	108.4	104.9	102.3	108.4	108.4	110.0	107.3
2023	Soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations	26	101.9	103.5	104.9	105.0	103.8	101.9	105.9	107.1	107.1	105.5
22	Rubber and plastic products	31	102.6	104.3	105.8	105.8	104.6	102.6	105.6	109.2	109.2	106.7
2211	Rubber tyres and tubes, retreading and rebuilding of rubber tyres	5	101.0	101.0	100.0	100.0	100.5	101.0	100.0	104.9	104.9	102.7
2220	Plastic products	26	102.9	104.9	106.9	106.9	105.4	102.9	106.7	110.0	110.0	107.4

**Figure 8 : Quarterly Producer Price Index,
Manufacturing Sector (PPI - M), 2015 - 2016
(Base Year 2013 = 100)**

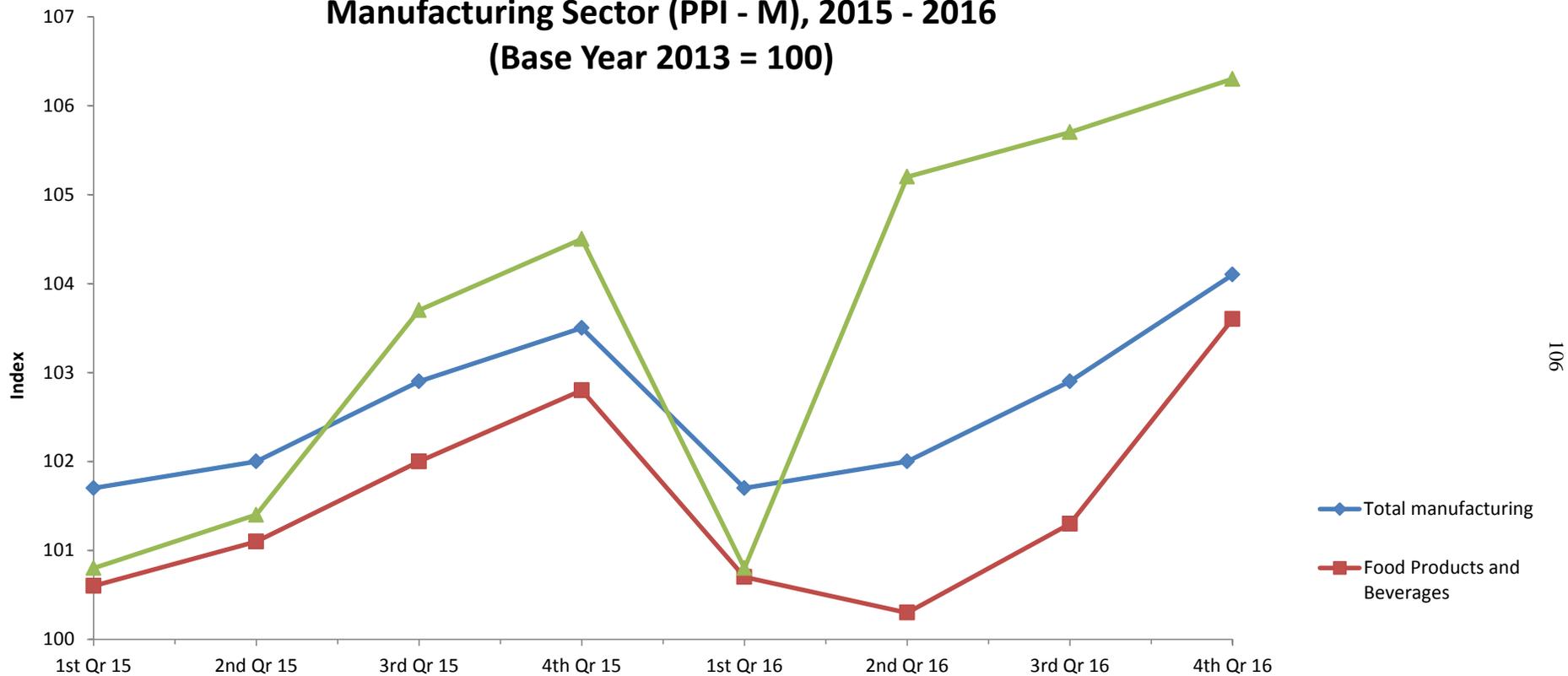


Table 8.4 - Comparative monthly and quarterly indices of the Manufacturing Sector, January 2008 - December 2016

Base period: Year 2013=100

Month	2008	2009	2010	2011	2012	2013	2014	2015	2016
January	82.6	85.7	83.2	89.1	94.6	98.6	100.1	101.6	101.6
February	83.3	83.3	83.3	91.9	94.3	99.9	100.1	101.5	101.5
March	84.0	83.4	83.4	91.5	93.9	100.0	100.3	102.0	102.0
Average 1st Quarter	83.3	84.1	83.3	90.8	94.3	99.5	100.2	101.7	101.7
April	84.7	82.7	84.1	91.5	94.4	100.0	100.4	101.9	101.9
May	84.9	82.0	84.8	91.7	94.5	99.9	100.4	101.9	102.1
June	84.6	81.8	85.3	92.3	94.9	99.8	100.6	102.1	102.2
Average 2nd Quarter	84.7	82.2	84.7	91.8	94.6	99.9	100.5	102.0	102.0
July	85.1	82.3	85.3	92.6	95.4	100.1	100.6	102.3	102.8
August	86.7	82.3	85.4	92.9	95.5	100.1	100.3	103.1	102.8
September	87.9	82.2	85.2	93.0	95.6	100.0	100.3	103.3	103.0
Average 3rd Quarter	86.6	82.3	85.3	92.8	95.5	100.1	100.4	102.9	102.9
October	88.8	82.6	85.4	94.1	96.9	100.1	100.4	103.4	103.7
November	88.8	82.7	86.6	94.6	97.8	100.9	100.3	103.5	104.3
December	88.6	82.7	87.1	94.9	97.8	100.5	100.0	103.5	104.3
Average 4th Quarter	88.7	82.7	86.4	94.6	97.5	100.5	100.2	103.5	104.1
Yearly average	85.8	82.8	84.9	92.5	95.5	100.0	100.3	102.5	102.7
Annual change (%)	15.0	-3.5	2.5	8.9	3.2	4.7	0.3	2.2	0.2

Table 8.5 - Comparative monthly and quarterly indices for the Manufacture of Food products and beverages , January 2008 - December 2016

Base period: Year 2013=100

Month	2008	2009	2010	2011	2012	2013	2014	2015	2016
January	83.1	86.2	81.5	85.5	93.5	97.4	100.5	100.5	100.6
February	84.0	82.6	81.7	90.0	92.4	99.7	100.0	100.3	100.4
March	85.1	82.7	81.9	89.2	92.4	99.9	100.0	101.0	101.1
Average 1st Quarter	84.1	83.9	81.7	88.2	92.8	99.0	100.2	100.6	100.7
April	85.9	82.8	82.0	89.4	93.1	100.0	100.0	101.0	100.1
May	86.2	81.8	82.5	89.4	93.3	100.1	100.1	100.9	100.2
June	85.9	81.4	82.7	89.5	93.8	100.1	100.4	101.2	100.5
Average 2nd Quarter	86.0	82.0	82.4	89.4	93.4	100.0	100.2	101.1	100.3
July	85.9	81.9	82.7	89.8	94.4	100.2	100.4	101.3	100.9
August	87.4	81.9	82.9	90.1	94.5	100.2	100.1	102.0	101.3
September	88.8	81.6	82.8	90.5	94.4	100.0	100.4	102.6	101.7
Average 3rd Quarter	87.4	81.8	82.8	90.2	94.4	100.2	100.3	102.0	101.3
October	90.0	81.4	82.5	92.4	95.5	99.8	100.4	102.7	102.9
November	90.7	81.3	84.1	92.9	96.9	101.5	100.5	102.9	103.9
December	90.6	81.2	84.9	93.3	96.8	101.1	99.9	102.8	103.9
Average 4th Quarter	90.4	81.3	83.9	92.9	96.4	100.8	100.3	102.8	103.6
Yearly average	87.0	82.2	82.7	90.2	94.3	100.0	100.2	101.6	101.5
Annual change (%)	19.7	-5.5	0.6	9.1	4.5	6.1	0.2	1.4	-0.1