

# Quarterly National Accounts

## Third Quarter 2017

### Introduction

This issue of Economic and Social Indicators on Quarterly National Accounts (QNA) presents quarterly estimates of GDP for the first quarter of 2013 to the third quarter of 2017. Estimates have been worked out using both the production and the expenditure approach, based on latest available data. The production data covering value added at current prices and growth rates over the corresponding period of the previous year by industry group are presented in Tables 1 and 2, and the expenditure components of GDP in Tables 3 and 4. Data in these tables have not been seasonally adjusted, which partly explains the fluctuations in the series (Figure 1).

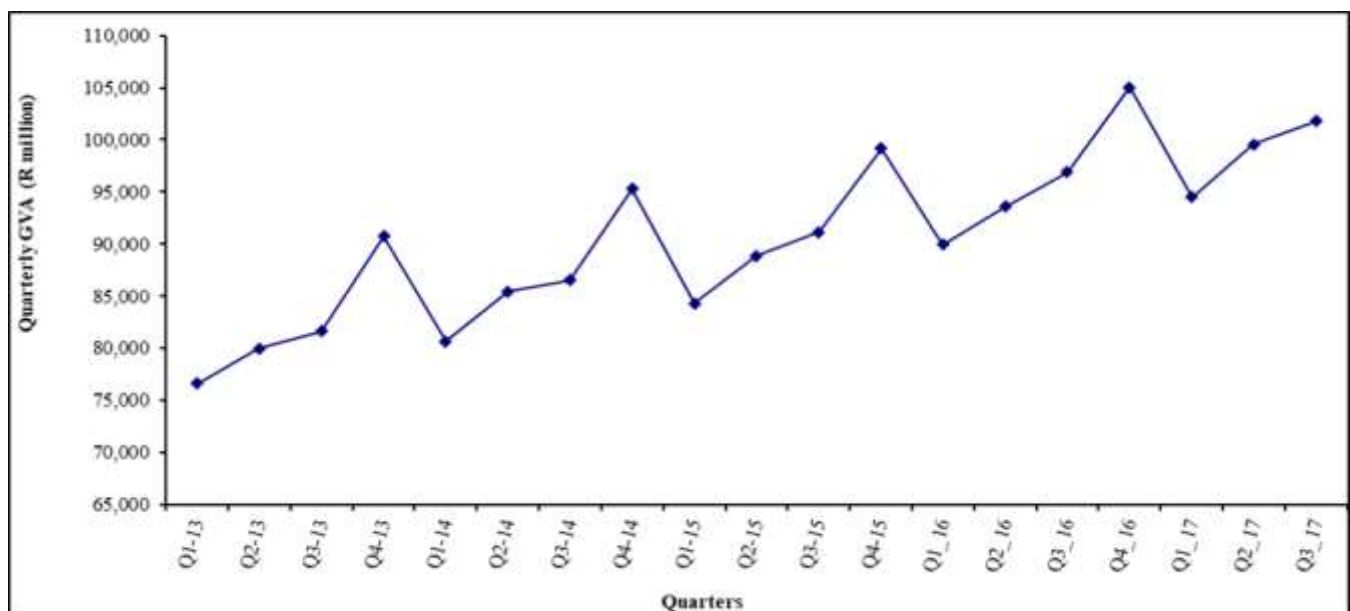
For more meaningful trend analysis, seasonally adjusted estimates of quarterly GDP from the production approach have been worked out. The derived quarter-to-quarter growth rates for first quarter 2013 to the third quarter of 2017, together with some analysis are presented in section 5 of this publication.

Definitions of terminology are given on pages 9 and 10. The data sources and methods used, including the method used for seasonal adjustment are described in the Annex.

### 2. Quarterly Gross Value Added (GVA) estimates at current prices

Figure 1 shows the quarterly Gross Value Added (GVA) estimates at basic prices for the first quarter of 2013 to the third quarter of 2017. It is observed that throughout the period, the quarterly data follow the same pattern every year. Production is relatively low in the first quarter; it increases gradually in the two subsequent quarters to peak in the last quarter before declining in the first quarter of the following year. This pattern clearly indicates seasonality in the data. Thus, in 2016, GVA at current basic prices which stood at R 89,945 million in the first quarter, increased to R 93,616 million in the second quarter, R 96,888 million in the third quarter to peak at R 105,023 million in the fourth quarter. It then declined to R 94,512 million in the first quarter of 2017, and rose to R 99,543 million and R 101,791 million in the second and third quarters respectively.

**Fig 1: Quarterly GVA estimates at current basic prices, Q<sub>1</sub> 2013 – Q<sub>3</sub> 2017**



The lower GVA figures observed during the first quarters may be due to lower economic activities resulting from temporary closures of firms during the month of January because of New Year festivities. On the other hand, the higher GVA figures during the last quarters could be explained by more activities in “Accommodation and food service activities” due to high tourist arrivals, “Manufacturing” and “Wholesale and retail trade” to meet the high demand for consumption goods for end of year festivities.

Quarterly data series normally indicate that around 23% of the annual GVA is produced in the first quarters, 25% in the second quarters, 25% in the third quarters and 27% in the fourth quarters.

Quarterly GVA at current prices for the third quarter of 2017 is estimated at R 101,791 million compared to R 99,543 million in the previous quarter and R 96,888 million in the corresponding quarter of 2016.

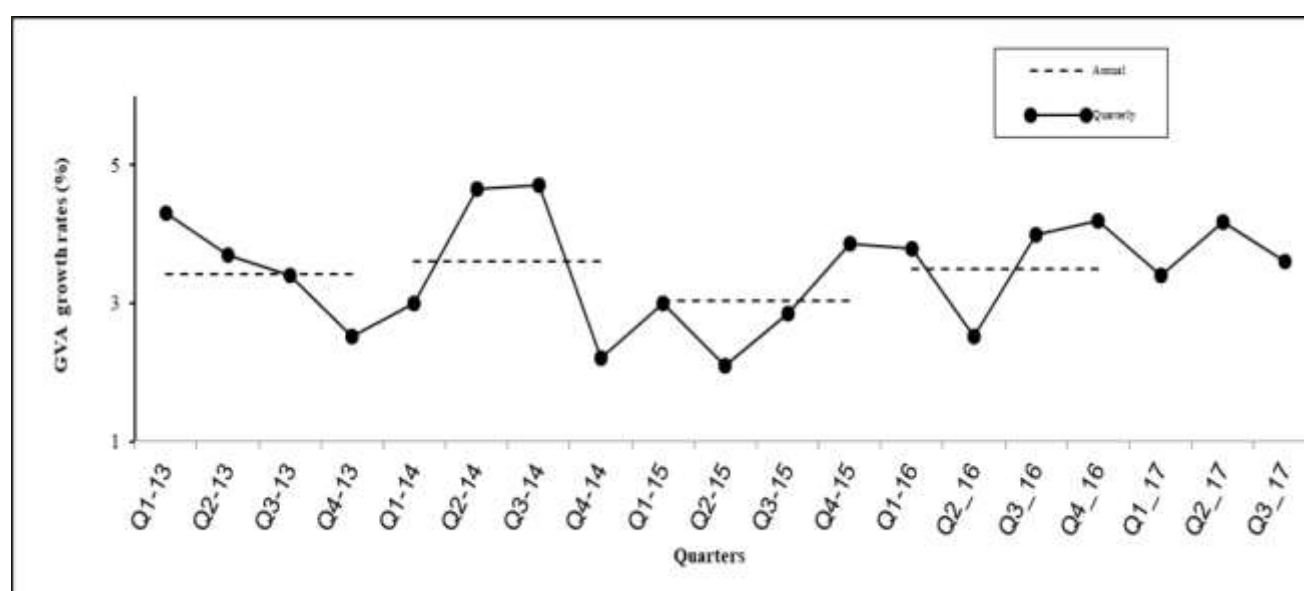
### 3. Quarterly growth rates (based on data unadjusted for seasonality) – Table 2

#### 3.1 Growth rates, Q<sub>1</sub> 2013 – Q<sub>3</sub> 2017, (year on year change)

Table 2 shows year on year quarterly growth rates by industry group for the period first quarter of 2013 to third quarter of 2017. The rates are based on value added unadjusted for seasonality and represent the percentage change in real value added (exclusive of price effects) over the same quarter of the previous year.

Figure 2 shows the year on year quarterly GVA growth rates for the first quarter of 2013 to the third quarter of 2017 and the annual rates for 2013 to 2016. After growths of 3.4% and 3.6% in 2013 and 2014, a lower growth of 3.1% was registered in 2015. In 2016, a higher growth of 3.6% was observed and that for 2017 would be 3.7%.

**Fig. 2: GVA growth rates, quarterly (percentage change over corresponding period of previous year) and annual, Q<sub>1</sub> 2013 – Q<sub>3</sub> 2017**



The quarterly growth rates show a slowdown of the economy in 2013, from 4.3% in the first quarter to 2.5% in the last quarter. Improvement is subsequently observed till the third quarter of 2014 but was followed by a lower growth of 2.3% in the fourth quarter. Steady growth was then registered in 2015 with 3.2% in the first quarter, 2.3% in the second quarter, 3.0% in the third quarter and 3.9% in

the fourth quarter. Estimates for 2016 indicate a better performance than in 2015, except for the second quarter when GVA growth rate worked out to 2.6% compared to 3.8%, 3.7% and 4.2% in the first, third and fourth quarters respectively. Latest data available for the first, second and third quarters of 2017 indicate a higher performance in the second quarter (+4.2%) compared to the first quarter (+3.4%) and third quarter (+3.6%).

### **3.2 Growth rates, (year-on-year), Q<sub>2</sub> 2017**

Based on latest available information, GVA growth for the second quarter of 2017 over the corresponding quarter of 2016 is revised upward to 4.2%, compare to 4.1% estimated in September 2017. At industry level, main changes in estimates are as follows: growth rates were revised upward in “Transportation and storage” (+5.1% instead of +3.5%), “Accommodation and food service activities” (+9.3% instead of +7.3%), “Financial and insurance activities” (+6.0% instead of +5.7%) and “Other service activities” (+3.8% instead of 3.0%) while lower growth rates were estimated in “Manufacturing” (+2.3% instead of +2.6%), “Construction” (+10.0% instead of +11.2%), “Wholesale and retail trade; repair of motor vehicles and motorcycles” (+2.9% instead of +3.1%), and “Real estate activities” (+2.5% instead of +2.8%).

### **3.3 Growth rates, (year-on-year), Q<sub>3</sub> 2017**

In this section, growth rates for the third quarter over the corresponding quarter of 2016 are compared with the rates for the second quarter over the second quarter of 2016.

GVA growth rate for the third quarter of 2017 is estimated at 3.6% compared to 4.2% for the second quarter. In the third quarter of 2017, growth was registered in all sectors as follows:

- (i) “Agriculture, forestry and fishing” registered a positive growth of 0.2% after a decline of 1.6% in the previous quarter. The growth of 0.2% resulted from a 2.5% growth in “Other agriculture” partly offset by a decline of 9.0% in “Sugarcane”.
- (ii) “Manufacturing” registered a growth of 2.5% compared to a growth of 2.3% in the previous quarter. The 2.5% growth in the third quarter resulted from positive growths of 1.9%, 1.5% and 8.0% in “Sugar”, “Food (exc sugar)” and “Other Manufacturing” respectively and a decline of 2.2% in “Textile”.
- (iii) “Electricity, gas, steam and air conditioning supply” grew by 6.4%, after a growth of 4.7% in the second quarter of 2017.
- (iv) “Water supply, sewerage, waste management and remediation activities” grew by 4.0%, after a growth of 2.5% in the previous quarter.
- (v) “Construction” expanded further by 8.5%, after a growth of 10.0% in the previous quarter.
- (vi) “Wholesale and retail trade; repair of motor vehicles and motorcycles” grew by 2.6%, lower than the growth of 2.9 % registered in the second quarter of 2017.
- (vii) “Transportation and storage” grew by 2.0% lower than the 5.1% growth registered in the previous quarter.
- (viii) “Accommodation and food service activities” registered a growth of 4.1%, after a growth of 9.3% in the previous quarter.

- (ix) “Information and communication” grew by 5.2%, lower than the growth of 5.6% observed in the second quarter of 2017.
- (x) “Financial and insurance activities” registered a growth of 5.5%, after a growth of 6.0% in the previous quarter.
- (xi) “Real estate activities” grew by 3.1% higher than the growth of 2.5% during the second quarter of 2017. Growth in real estate activities is mainly driven by changes in ‘Ownership of dwellings’ which grew by 2.8% in the third quarter of 2017 compared to 2.1% during the previous quarter.
- (xii) “Professional, scientific and technical activities” grew by 5.0%, compared to 5.3% in the previous quarter.
- (xiii) “Administrative and support service activities” registered a growth of 6.3% after a growth of 5.9% in the previous quarter.
- (xiv) “Public administration and defence; compulsory social security” grew by 0.9%, lower than the growth of the previous quarter.
- (xv) “Education” grew by 2.0% after a growth of 1.5% in the previous quarter.
- (xvi) “Human health and social work activities” grew by 4.9% after a growth of 6.3% in the second quarter of 2017.
- (xvii) “Arts, entertainment and recreation” registered a growth rate of 4.6% same as in the previous quarter.
- (xviii) “Other service activities” grew by 3.4% higher than the rate of 2.9% in the previous quarter.

### **3.4 Contribution of industry groups to GVA growth, Q<sub>3</sub> 2017**

The contribution of an industry to GVA growth depends on two factors, namely, its share in GVA and the change in its real value added. From Table A and Figure 3, it is observed that the 3.6% growth in GVA during the third quarter of 2017 was mainly due to:

- (i) “Financial and insurance activities” contributing 0.6 percentage point;
- (ii) “Manufacturing” and “Construction” each contributing 0.4 percentage point;
- (iii) “Wholesale and retail trade; repair of motor vehicles and motorcycles” contributing 0.3 percentage point.

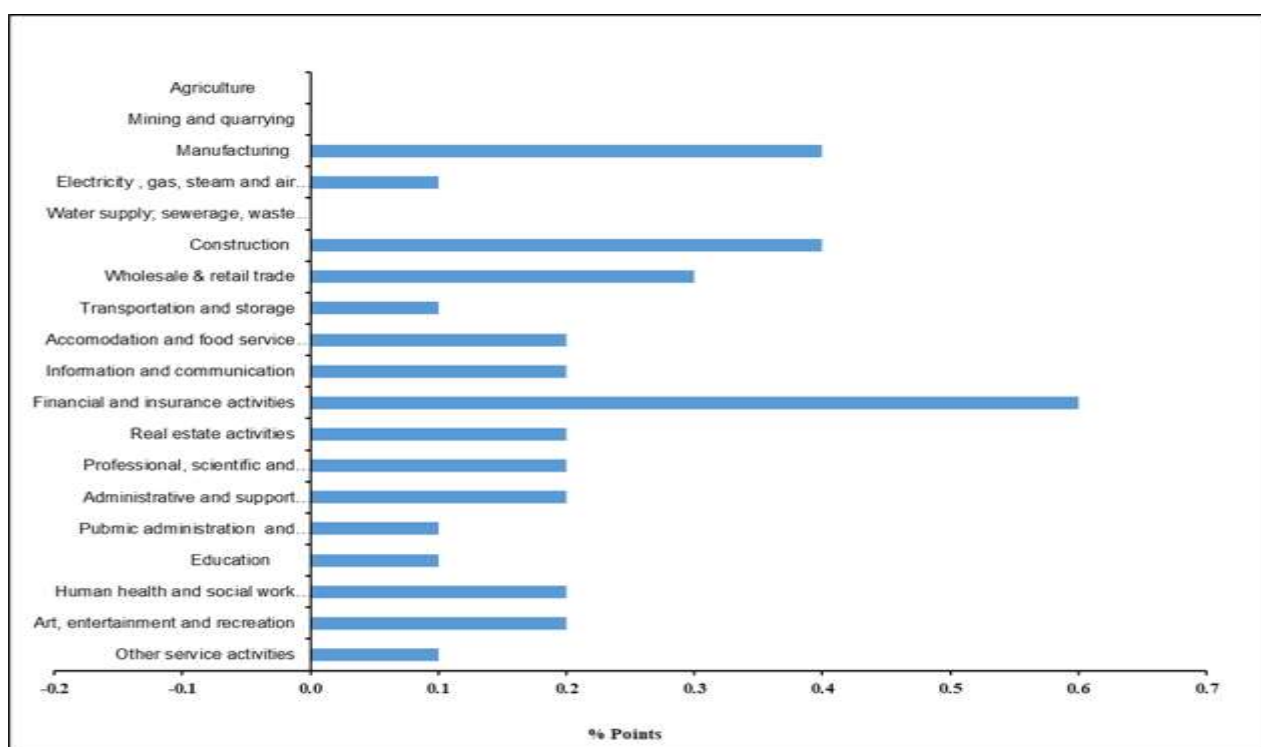
Table A: Contribution of industries to GVA growth (percentage point), Q1 2014 - Q3 2017

Industry	Contribution to GDP growth														
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
	2014	2014	2014	2014	2015	2015	2015	2015	2016	2016	2016	2016	2017	2017	2017
Agriculture, forestry and fishing	0.1	0.1	0.1	0.1	-0.3	0.0	0.1	0.0	0.2	0.1	0.1	0.1	0.1	-0.1	0.0
Mining and quarrying	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manufacturing	0.0	0.9	0.7	-0.4	0.3	-0.4	-0.1	0.3	-0.2	-0.1	0.2	0.3	0.0	0.3	0.4
Electricity , gas, steam and air conditioning supply	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.0	0.0	0.1	0.1
Water supply;sewerage, waste managementand remediation activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction	-0.3	-0.6	-0.5	-0.5	-0.4	-0.4	-0.1	-0.1	-0.3	-0.3	0.3	0.3	0.3	0.4	0.4
Wholesale & retail trade; repair of motor vehicles, motorcycles, personal and household goods	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.3	0.3
Transportation and storage	0.2	0.3	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.1
Accomodation and food service activities	0.1	0.6	0.3	0.4	0.7	0.2	0.5	0.7	0.8	0.2	0.4	0.9	0.2	0.6	0.2
Information and communication	0.3	0.3	0.3	0.2	0.4	0.4	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.2
Financial intermediation	0.7	0.7	0.6	0.6	0.5	0.6	0.6	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6
Real estate, renting and business activities	0.2	0.3	1.0	-0.2	0.1	0.1	0.1	0.6	0.4	0.2	0.2	0.2	0.2	0.1	0.2
Professional, scientific and technical activities	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.2
Administrative and support service activities	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Pubmic administration and Defence: compulsory social security	0.1	0.5	0.3	0.3	0.1	0.2	0.2	-0.1	0.2	0.0	0.2	0.2	0.1	0.1	0.1
Education	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1
Human health and social work activities	0.2	0.3	0.3	0.4	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2
Art , Entertainment and Recreation	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
Other services	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1
GDP at basic prices	2.9	4.7	4.7	2.3	3.2	2.3	3.0	3.9	3.8	2.6	3.7	4.2	3.4	4.2	3.6

Contribution of an industry to the GDP growth is calculated as the product of its share in the economy and the year on year growth rate

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

Fig 3: Contribution of industry groups to GVA growth rate, third quarter 2017



## **4. Quarterly GDP by expenditure**

### **4.1 *Quarterly expenditure components at current prices***

During the third quarter of 2017, final consumption expenditure which comprises consumption expenditure of households and general government, amounted to R 103,595 million, representing 91% of the quarterly GDP at market prices. Final consumption of households estimated at R 86,538 million, represented 76% of the quarterly GDP and that of general government, estimated at R 17,057 million, 15% of the quarterly GDP (Table 3).

Analysis of quarterly data shows seasonality in household consumption expenditure with highest consumption occurring during the fourth quarters. In 2016, it is noted that household consumption expenditure during the fourth quarter represented 28% of the yearly total compared to 23% in the first quarter, 24% in the second quarter and 25% in the third quarter.

Data prior to 2014 show that “Exports of goods” were highest during the fourth quarters. However, this seasonal pattern is not that obvious in following years. “Exports of services” which comprises mainly tourist earnings and revenue of the national airline from foreign travellers are normally highest during the first and fourth quarters.

Imports of goods are highest in the fourth quarters, mainly explained by high consumption at the end of the year. Import of services are generally highest in the fourth quarters.

There is no distinct seasonal pattern in the data for general government consumption expenditure and Gross Fixed Capital Formation (GFCF).

### **4.2 *Growth rates (year-on-year) of expenditure components, Q<sub>3</sub> 2017***

Analysis of year on year quarterly GDP by expenditure shows that total final consumption expenditure in real terms increased by 2.8% in the third quarter of 2017 when compared to the corresponding quarter of 2016 (Table 4). Final consumption expenditure of households grew by 2.9% and that of general government grew by 2.2%.

Investment (Gross fixed capital formation) grew by 6.3% after a growth of 10.5% in the second quarter of 2017. The 6.3% growth in the third quarter of 2017 was due to a growth of 8.1% in “Building and construction work” and 3.5% in “Machinery and equipment”.

The 8.1% growth in “Building and construction work” is due to growths of 38.9% in “Non-residential building”, and 9.9% in “Other construction work” partly offset by a decline of 4.9% in “Residential Building”.

The growth of 3.5% in “Machinery and equipment” is the result of growths of 29.4% in “Passenger car” and 7.7% in “Other machinery and equipment” partly offset by a decline of 27.9% in “Other transport equipment”.

Exports of goods and services contracted by 1.1% following the zero growth of the second quarter of 2017. The decline of 1.1% is due to a negative growth of 3.6% in exports of goods, partly offset by a growth of 0.9% in exports of services.

Imports of goods and services expanded by a further 1.9% after a growth of 7.3% in the previous quarter. The growth of 1.9% is due to growths of 2.3% and 0.5% in imports of goods and imports of services respectively.

## 5. Seasonally adjusted quarterly GVA

Table B and Figure 4 show the year-on-year quarterly GVA growth rates based on unadjusted data and the quarter-to-quarter growth rates based on seasonally adjusted data for first quarter of 2011 to third quarter of 2017.

As indicated earlier, while the year-on-year growth rates can be used to analyse trends, the quarter to quarter growth rates provide a more meaningful trend analysis with the advantage of being able to detect trend changes much earlier. For example, the year-on-year growth rates show a turning point in the fourth quarter of 2013; however the quarter-to-quarter seasonally adjusted data show a turning point as early as the first quarter of 2013.

Seasonally adjusted data show that the quarter to quarter GVA growth rate was 1.5% in the third quarter of 2017 after growths of 0.2% and 1.0% in the first and second quarters respectively.

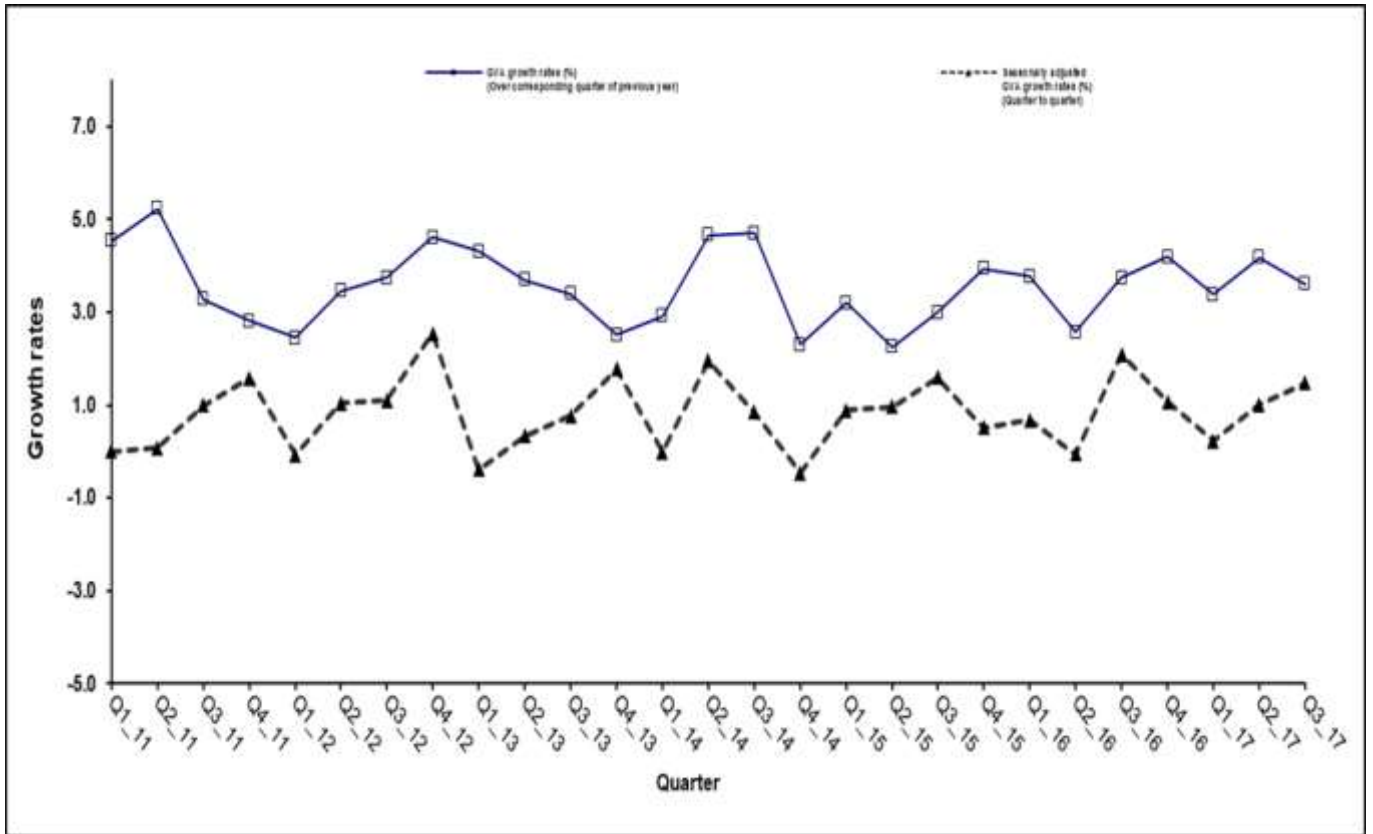
Users may consult the website of Statistics Mauritius (<http://statsmauritius.govmu.org>) for seasonally adjusted growth rates by industry group.

**Table B: Quarterly GVA growth rates <sup>1</sup>, Q1 2011 – Q3 2017**

Quarter	GVA growth rates (%) (Over corresponding quarter of previous year)	Seasonally adjusted GVA growth rates (%) (Quarter to quarter)	Quarter	GVA growth rates (%) (Over corresponding quarter of previous year)	Seasonally adjusted GVA growth rates (%) (Quarter to quarter)
Q1_11	4.5	0.0	Q3_14	4.7	0.8
Q2_11	5.2	0.1	Q4_14	2.3	-0.5
Q3_11	3.3	1.0	Q1_15	3.2	0.9
Q4_11	2.8	1.6	Q2_15	2.3	1.0
Q1_12	2.5	-0.1	Q3_15	3.0	1.6
Q2_12	3.5	1.0	Q4_15	3.9	0.5
Q3_12	3.7	1.1	Q1_16	3.8	0.7
Q4_12	4.6	2.5	Q2_16	2.6	-0.1
Q1_13	4.3	-0.4	Q3-16	3.7	2.1
Q2_13	3.7	0.3	Q4_16	4.2	1.1
Q3_13	3.4	0.8	Q1_17	3.4	0.2
Q4_13	2.5	1.8	Q2_17	4.2	1.0
Q1_14	2.9	0.0	Q3_17	3.6	1.5
Q2_14	4.7	2.0			

1/ Growth rates for first quarter 2011 to second quarter 2017 have been revised and that of the third quarter of 2017 is a first estimate

Figure 4: GVA growth rates (over corresponding quarter of previous year and quarter to quarter), Q1 2011 – Q3 2017.





## **Definition of terminology used**

### **1. Gross Domestic Product (GDP)**

GDP is the aggregate money value of all goods and services produced within a country out of economic activity during a specified period before provision for the consumption of fixed capital.

### **2. Gross Value Added (GVA) at basic prices**

Gross Value Added 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.

The basic price is the amount receivable by the producer exclusive of taxes on products and inclusive of subsidies on products. The equivalent for imported products is the c.i.f. value, i.e. the value at the border of the importing country.

The purchasers' price is the amount payable by the purchaser exclusive of deductible taxes on products (e.g. deductible value added tax).

### **3. GDP at market prices**

GDP at market prices is equal to the Gross Value Added at basic prices plus taxes (net of subsidies) on products.

### **4. Final Consumption expenditure**

Final Consumption expenditure refers to the expenditure made on goods and services by households and government.

### **5. Gross Fixed Capital Formation (GFCF)**

GFCF is the net additions to the physical assets of the country in a year. These consist mainly of investment in buildings, plants, machinery and transport equipment, all valued at market prices.

### **6. Exports and Imports of goods and services**

Exports and imports of goods are measured on an f.o.b. basis. Insurance and freight, which represent the difference between the c.i.f. and f.o.b. values of imports of goods, are recorded as import of services.

Exports and imports of goods are compiled according to the General Trade System, using the national boundary as the statistical frontier. All goods entering the country are recorded in imports and goods leaving the country in exports.

### **7. Export Oriented Enterprises (EOE)**

Export Oriented Enterprises comprise enterprises formerly operating with an export certificate and those export manufacturing enterprises holding a registration certificate issued by the Board of Investment.

## **8. Change in inventories**

Change in inventories includes the value of the physical change in inventories of raw materials, work in progress, and finished goods held by producers.

## **9. Financial intermediation services indirectly measured (FISIM)**

FISIM is the value of services not explicitly charged by financial institutions (banks and similar institutions) and is imputed in respect of all loans and deposits irrespective of source of funds. As recommended by the 2008 SNA, it is allocated to users as follows: intermediate consumption of businesses, final consumption of households and government, and a component of exports of services.

*Note: Figures in some tables may not add up to the total published due to rounding off.*

**Statistics Mauritius  
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**Table 1 - Gross value added by industry group at current basic prices, Q<sub>1</sub> 2013 - Q<sub>3</sub> 2017**

(R million)

	Year (Cumulated 4 quarters)		2013				2014			
	2013	2014	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Agriculture, forestry and fishing</b>	<b>12,570</b>	<b>12,778</b>	<b>2,668</b>	<b>2,674</b>	<b>3,195</b>	<b>4,033</b>	<b>2,906</b>	<b>2,748</b>	<b>3,256</b>	<b>3,868</b>
Sugarcane	3,544	3,162	609	674	858	1,404	540	598	764	1,260
Other	9,026	9,616	2,059	2,000	2,337	2,629	2,366	2,150	2,492	2,608
<b>Mining and quarrying</b>	<b>990</b>	<b>1,000</b>	<b>202</b>	<b>240</b>	<b>245</b>	<b>303</b>	<b>180</b>	<b>227</b>	<b>244</b>	<b>348</b>
<b>Manufacturing</b>	<b>51,788</b>	<b>53,274</b>	<b>10,034</b>	<b>12,272</b>	<b>13,541</b>	<b>15,940</b>	<b>9,942</b>	<b>12,770</b>	<b>13,598</b>	<b>16,963</b>
Sugar	810	641	142	224	223	221	113	177	177	175
Food (exc sugar)	18,253	18,663	3,478	4,144	4,953	5,677	3,516	4,240	4,794	6,113
Textile	15,517	16,118	2,942	3,928	4,151	4,497	2,825	4,232	4,205	4,856
Other	17,207	17,852	3,472	3,976	4,214	5,545	3,488	4,122	4,423	5,819
<b>Electricity , gas, steam and air conditioning supply</b>	<b>4,722</b>	<b>5,511</b>	<b>1,255</b>	<b>1,193</b>	<b>1,137</b>	<b>1,136</b>	<b>1,414</b>	<b>1,432</b>	<b>1,324</b>	<b>1,341</b>
<b>Water supply; sewerage, waste management and remediation activities</b>	<b>1,294</b>	<b>1,340</b>	<b>338</b>	<b>325</b>	<b>349</b>	<b>283</b>	<b>356</b>	<b>329</b>	<b>363</b>	<b>293</b>
<b>Construction</b>	<b>17,923</b>	<b>16,631</b>	<b>4,356</b>	<b>4,539</b>	<b>4,553</b>	<b>4,475</b>	<b>4,184</b>	<b>4,158</b>	<b>4,178</b>	<b>4,111</b>
<b>Wholesale &amp; retail trade; repair of motor vehicles and motorcycles</b>	<b>38,965</b>	<b>41,579</b>	<b>8,220</b>	<b>9,469</b>	<b>9,422</b>	<b>11,855</b>	<b>8,869</b>	<b>10,194</b>	<b>10,159</b>	<b>12,357</b>
of which wholesale and retail trade	36,545	38,977	7,781	8,819	8,871	11,075	8,390	9,494	9,564	11,528
<b>Transportation and storage</b>	<b>19,779</b>	<b>21,160</b>	<b>5,000</b>	<b>4,603</b>	<b>5,008</b>	<b>5,167</b>	<b>5,281</b>	<b>4,983</b>	<b>5,387</b>	<b>5,509</b>
<b>Accommodation and food service activities</b>	<b>19,827</b>	<b>21,702</b>	<b>6,051</b>	<b>4,410</b>	<b>3,618</b>	<b>5,748</b>	<b>6,238</b>	<b>5,202</b>	<b>4,163</b>	<b>6,099</b>
<b>Information and communication</b>	<b>14,398</b>	<b>14,948</b>	<b>3,472</b>	<b>3,494</b>	<b>3,641</b>	<b>3,790</b>	<b>3,643</b>	<b>3,633</b>	<b>3,791</b>	<b>3,882</b>
<b>Financial and insurance activities</b>	<b>38,336</b>	<b>41,322</b>	<b>9,039</b>	<b>9,524</b>	<b>9,607</b>	<b>10,166</b>	<b>9,791</b>	<b>10,232</b>	<b>10,285</b>	<b>11,014</b>
Monetary intermediation	21,755	23,309	5,469	5,776	5,155	5,355	5,898	6,154	5,486	5,771
Financial leasing and other credit granting	2,316	2,500	526	504	612	674	569	541	660	730
Insurance, reinsurance and pension funding	10,199	11,071	2,122	2,345	2,763	2,970	2,314	2,562	2,970	3,224
Other	4,066	4,442	922	900	1,077	1,167	1,009	975	1,169	1,288
<b>Real estate activities</b>	<b>20,042</b>	<b>21,165</b>	<b>4,997</b>	<b>4,895</b>	<b>4,793</b>	<b>5,356</b>	<b>5,236</b>	<b>5,149</b>	<b>5,582</b>	<b>5,198</b>
of which Owner occupied dwellings	16,796	17,572	4,204	4,077	3,985	4,530	4,345	4,241	4,687	4,300
<b>Professional, scientific and technical activities</b>	<b>14,624</b>	<b>15,923</b>	<b>3,526</b>	<b>3,661</b>	<b>3,653</b>	<b>3,784</b>	<b>3,872</b>	<b>4,005</b>	<b>3,982</b>	<b>4,065</b>
<b>Administrative and support service activities</b>	<b>8,754</b>	<b>9,752</b>	<b>2,106</b>	<b>2,189</b>	<b>2,187</b>	<b>2,272</b>	<b>2,385</b>	<b>2,448</b>	<b>2,442</b>	<b>2,477</b>
<b>Public administration and defence: compulsory social security</b>	<b>20,196</b>	<b>21,543</b>	<b>4,590</b>	<b>5,084</b>	<b>5,213</b>	<b>5,310</b>	<b>4,718</b>	<b>5,611</b>	<b>5,478</b>	<b>5,737</b>
<b>Education</b>	<b>15,725</b>	<b>16,562</b>	<b>3,831</b>	<b>4,014</b>	<b>4,026</b>	<b>3,853</b>	<b>4,062</b>	<b>4,209</b>	<b>4,179</b>	<b>4,113</b>
<b>Human health and social work activities</b>	<b>13,123</b>	<b>14,431</b>	<b>3,271</b>	<b>3,288</b>	<b>3,335</b>	<b>3,229</b>	<b>3,521</b>	<b>3,630</b>	<b>3,651</b>	<b>3,630</b>
<b>Art , entertainment and recreation</b>	<b>10,766</b>	<b>11,854</b>	<b>2,507</b>	<b>2,792</b>	<b>2,787</b>	<b>2,680</b>	<b>2,809</b>	<b>3,084</b>	<b>3,069</b>	<b>2,891</b>
<b>Other service activities</b>	<b>5,189</b>	<b>5,537</b>	<b>1,173</b>	<b>1,327</b>	<b>1,328</b>	<b>1,361</b>	<b>1,274</b>	<b>1,421</b>	<b>1,418</b>	<b>1,423</b>
<b>Gross Value Added (GVA) at basic prices</b>	<b>329,009</b>	<b>348,012</b>	<b>76,637</b>	<b>79,995</b>	<b>81,636</b>	<b>90,742</b>	<b>80,681</b>	<b>85,465</b>	<b>86,547</b>	<b>95,319</b>
<b>Taxes on products (net of subsidies)</b>	<b>43,388</b>	<b>44,051</b>	<b>9,591</b>	<b>10,546</b>	<b>10,969</b>	<b>12,282</b>	<b>9,834</b>	<b>11,338</b>	<b>10,608</b>	<b>12,271</b>
<b>Gross Domestic Product at market prices</b>	<b>372,397</b>	<b>392,062</b>	<b>86,228</b>	<b>90,540</b>	<b>92,605</b>	<b>103,024</b>	<b>90,515</b>	<b>96,802</b>	<b>97,155</b>	<b>107,590</b>
<b>Export Oriented Enterprises</b>	<b>20,328</b>	<b>20,704</b>	<b>4,053</b>	<b>5,193</b>	<b>5,527</b>	<b>5,554</b>	<b>4,041</b>	<b>5,429</b>	<b>5,502</b>	<b>5,731</b>

Table 1 - (cont'd) Gross value added by industry group at current basic prices, Q<sub>1</sub> 2013- Q<sub>3</sub> 2017

(R million)

	Year		2015 <sup>1</sup>				2016 <sup>1</sup>				2017		
	(Cumulated 4 quarters)		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 <sup>1</sup>	Q2 <sup>1</sup>	Q3 <sup>2</sup>
	2015	2016											
<b>Agriculture, forestry and fishing</b>	<b>12,928</b>	<b>13,706</b>	<b>2,788</b>	<b>2,669</b>	<b>3,350</b>	<b>4,121</b>	<b>2,923</b>	<b>2,905</b>	<b>3,600</b>	<b>4,278</b>	<b>2,993</b>	<b>3,227</b>	<b>3,824</b>
Sugarcane	3,144	3,170	534	588	762	1,260	547	605	769	1,249	447	492	634
Other	9,784	10,536	2,254	2,081	2,588	2,861	2,376	2,300	2,831	3,029	2,546	2,735	3,190
<b>Mining and quarrying</b>	<b>893</b>	<b>908</b>	<b>173</b>	<b>233</b>	<b>241</b>	<b>246</b>	<b>177</b>	<b>237</b>	<b>239</b>	<b>255</b>	<b>191</b>	<b>245</b>	<b>247</b>
<b>Manufacturing</b>	<b>53,436</b>	<b>53,630</b>	<b>9,972</b>	<b>12,835</b>	<b>14,110</b>	<b>16,519</b>	<b>10,300</b>	<b>12,696</b>	<b>14,287</b>	<b>16,347</b>	<b>10,084</b>	<b>12,985</b>	<b>14,521</b>
Sugar	583	775	102	161	161	159	136	214	213	211	127	200	199
Food (exc sugar)	18,554	18,890	3,500	4,088	4,948	6,018	3,623	4,054	5,103	6,109	3,359	4,103	5,312
Textile	16,700	15,826	2,867	4,397	4,533	4,903	3,013	3,892	4,549	4,372	2,882	4,015	4,353
Other	17,599	18,140	3,503	4,189	4,468	5,439	3,529	4,535	4,421	5,654	3,716	4,667	4,656
<b>Electricity , gas, steam and air conditioning supply</b>	<b>7,083</b>	<b>8,427</b>	<b>1,856</b>	<b>1,742</b>	<b>1,669</b>	<b>1,816</b>	<b>2,220</b>	<b>2,005</b>	<b>2,003</b>	<b>2,199</b>	<b>2,313</b>	<b>2,240</b>	<b>2,242</b>
<b>Water supply; sewerage, waste management and remediation</b>	<b>1,442</b>	<b>1,490</b>	<b>372</b>	<b>394</b>	<b>338</b>	<b>338</b>	<b>386</b>	<b>402</b>	<b>357</b>	<b>345</b>	<b>389</b>	<b>420</b>	<b>381</b>
<b>Construction</b>	<b>16,018</b>	<b>16,027</b>	<b>3,948</b>	<b>3,921</b>	<b>4,077</b>	<b>4,072</b>	<b>3,675</b>	<b>3,630</b>	<b>4,396</b>	<b>4,327</b>	<b>3,954</b>	<b>4,018</b>	<b>4,804</b>
<b>Wholesale &amp; retail trade; repair of motor vehicles and motorcycles</b>	<b>43,738</b>	<b>45,914</b>	<b>9,421</b>	<b>10,849</b>	<b>10,820</b>	<b>12,648</b>	<b>9,894</b>	<b>11,414</b>	<b>11,319</b>	<b>13,288</b>	<b>10,583</b>	<b>12,191</b>	<b>12,039</b>
of which wholesale and retail trade	40,968	43,005	8,914	10,114	10,187	11,753	9,361	10,642	10,652	12,351	10,010	11,361	11,311
<b>Transportation and storage</b>	<b>22,612</b>	<b>24,332</b>	<b>5,605</b>	<b>5,401</b>	<b>5,758</b>	<b>5,848</b>	<b>6,040</b>	<b>5,827</b>	<b>6,207</b>	<b>6,257</b>	<b>6,363</b>	<b>6,176</b>	<b>6,487</b>
<b>Accommodation and food service activities</b>	<b>23,520</b>	<b>26,727</b>	<b>6,511</b>	<b>4,986</b>	<b>4,862</b>	<b>7,161</b>	<b>7,454</b>	<b>5,746</b>	<b>5,483</b>	<b>8,043</b>	<b>8,020</b>	<b>6,382</b>	<b>5,860</b>
<b>Information and communication</b>	<b>15,841</b>	<b>16,387</b>	<b>3,934</b>	<b>3,965</b>	<b>3,894</b>	<b>4,048</b>	<b>4,066</b>	<b>4,116</b>	<b>3,949</b>	<b>4,256</b>	<b>4,218</b>	<b>4,275</b>	<b>4,076</b>
<b>Financial and insurance activities</b>	<b>43,599</b>	<b>46,614</b>	<b>10,527</b>	<b>10,781</b>	<b>10,800</b>	<b>11,490</b>	<b>11,280</b>	<b>11,565</b>	<b>11,544</b>	<b>12,225</b>	<b>11,969</b>	<b>12,289</b>	<b>11,752</b>
Monetary intermediation	24,528	26,489	6,377	6,485	5,735	5,930	6,920	7,031	6,204	6,334	7,348	7,640	6,757
Financial leasing and other credit granting	2,545	2,604	607	552	663	722	619	571	680	734	636	603	734
Insurance, reinsurance and pension funding	11,734	12,461	2,461	2,691	3,143	3,440	2,597	2,859	3,323	3,682	2,771	2,866	2,851
Other	4,792	5,060	1,081	1,054	1,260	1,398	1,144	1,104	1,337	1,475	1,214	1,180	1,409
<b>Real estate activities</b>	<b>21,923</b>	<b>22,813</b>	<b>5,324</b>	<b>5,249</b>	<b>5,660</b>	<b>5,690</b>	<b>5,667</b>	<b>5,454</b>	<b>5,858</b>	<b>5,835</b>	<b>5,896</b>	<b>5,657</b>	<b>6,107</b>
of which Owner occupied dwellings	18,026	18,663	4,355	4,265	4,690	4,716	4,628	4,410	4,826	4,798	4,761	4,520	4,978
<b>Professional, scientific and technical activities</b>	<b>16,776</b>	<b>17,917</b>	<b>4,089</b>	<b>4,212</b>	<b>4,190</b>	<b>4,285</b>	<b>4,368</b>	<b>4,510</b>	<b>4,479</b>	<b>4,560</b>	<b>4,748</b>	<b>4,915</b>	<b>4,889</b>
<b>Administrative and support service activities</b>	<b>10,391</b>	<b>11,118</b>	<b>2,547</b>	<b>2,603</b>	<b>2,595</b>	<b>2,647</b>	<b>2,720</b>	<b>2,786</b>	<b>2,789</b>	<b>2,822</b>	<b>2,992</b>	<b>3,063</b>	<b>3,077</b>
<b>Public administration and defence: compulsory social security</b>	<b>22,419</b>	<b>24,878</b>	<b>4,924</b>	<b>6,002</b>	<b>5,800</b>	<b>5,693</b>	<b>5,512</b>	<b>6,486</b>	<b>6,495</b>	<b>6,385</b>	<b>5,714</b>	<b>6,704</b>	<b>6,651</b>
<b>Education</b>	<b>17,635</b>	<b>18,943</b>	<b>4,342</b>	<b>4,558</b>	<b>4,454</b>	<b>4,282</b>	<b>4,678</b>	<b>4,848</b>	<b>4,803</b>	<b>4,614</b>	<b>4,874</b>	<b>4,999</b>	<b>4,982</b>
<b>Human health and social work activities</b>	<b>15,199</b>	<b>16,501</b>	<b>3,732</b>	<b>3,810</b>	<b>3,893</b>	<b>3,764</b>	<b>4,058</b>	<b>4,109</b>	<b>4,163</b>	<b>4,171</b>	<b>4,347</b>	<b>4,519</b>	<b>4,506</b>
<b>Art , entertainment and recreation</b>	<b>12,369</b>	<b>13,161</b>	<b>2,939</b>	<b>3,207</b>	<b>3,196</b>	<b>3,027</b>	<b>3,142</b>	<b>3,365</b>	<b>3,391</b>	<b>3,263</b>	<b>3,390</b>	<b>3,620</b>	<b>3,703</b>
<b>Other service activities</b>	<b>5,725</b>	<b>5,979</b>	<b>1,321</b>	<b>1,461</b>	<b>1,461</b>	<b>1,482</b>	<b>1,386</b>	<b>1,514</b>	<b>1,524</b>	<b>1,554</b>	<b>1,476</b>	<b>1,617</b>	<b>1,646</b>
<b>Gross Value Added (GVA) at basic prices</b>	<b>363,547</b>	<b>385,471</b>	<b>84,323</b>	<b>88,880</b>	<b>91,166</b>	<b>99,177</b>	<b>89,945</b>	<b>93,616</b>	<b>96,888</b>	<b>105,023</b>	<b>94,512</b>	<b>99,543</b>	<b>101,791</b>
<b>Taxes on products (net of subsidies)</b>	<b>46,346</b>	<b>48,879</b>	<b>11,300</b>	<b>11,317</b>	<b>10,982</b>	<b>12,747</b>	<b>11,615</b>	<b>12,676</b>	<b>11,007</b>	<b>13,582</b>	<b>12,796</b>	<b>13,984</b>	<b>11,724</b>
<b>Gross Domestic Product at market prices</b>	<b>409,893</b>	<b>434,350</b>	<b>95,623</b>	<b>100,197</b>	<b>102,148</b>	<b>111,924</b>	<b>101,559</b>	<b>106,291</b>	<b>107,894</b>	<b>118,605</b>	<b>107,308</b>	<b>113,527</b>	<b>113,515</b>
<b>Export Oriented Enterprises</b>	<b>20,968</b>	<b>20,163</b>	<b>4,011</b>	<b>5,574</b>	<b>5,800</b>	<b>5,583</b>	<b>4,270</b>	<b>4,962</b>	<b>5,653</b>	<b>5,278</b>	<b>4,080</b>	<b>5,042</b>	<b>5,636</b>

1/ revised estimates 2/ first estimates

Table 2 - Gross Value Added-sectoral growth rates (% over corresponding period of previous year), Q<sub>1</sub> 2013 - Q<sub>3</sub> 2017

	Annual growth rate		2013				2014			
	2013	2014	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Agriculture, forestry and fishing</b>	+0.5	+5.0	-3.9	+0.2	+4.5	-0.2	+5.0	+4.4	+3.4	+2.8
Sugarcane	-2.2	-3.5	-1.9	-1.5	-2.5	-2.4	-4.5	-4.4	-3.9	-2.4
Other	+1.8	+6.5	-6.7	+0.3	+8.4	+1.8	+9.0	+8.6	+5.7	+4.4
<b>Mining and quarrying</b>	-4.6	-2.5	-2.4	-6.6	-0.7	-8.0	-9.5	-2.0	-3.0	+3.2
<b>Manufacturing</b>	+4.7	+1.8	+6.4	+5.2	+3.7	+4.1	+0.3	+5.4	+3.9	-2.0
Sugar	+0.4	+0.8	+0.4	+0.4	+0.4	+0.4	+0.8	+0.8	+0.8	+0.8
Food (exc sugar)	-0.3	+2.4	-1.5	-1.4	+3.3	-1.4	-1.2	+3.4	+3.7	+2.6
Textile	2.6	4.2	+6.2	+8.0	-2.5	+0.8	-2.0	+8.2	+6.5	+2.6
Other	12.7	1.0	+16.7	+11.4	+9.7	+13.8	+4.0	+7.8	+0.8	-12.0
<b>Electricity , gas, steam and air conditioning supply</b>	+4.4	+4.0	+6.5	+2.5	+3.7	+4.5	+3.7	+6.5	+2.3	+3.4
<b>Water supply; sewerage, waste management and remediation activities</b>	+2.5	+2.9	+3.0	+1.1	+1.9	+4.0	+5.1	+0.4	+4.0	+2.4
<b>Construction</b>	-8.2	-8.5	-0.7	-1.8	-10.2	-18.0	-6.0	-9.7	-9.3	-9.1
<b>Wholesale &amp; retail trade; repair of motor vehicles and motorcycles</b>	+2.8	+3.0	+3.4	+2.8	+2.4	+2.5	+2.8	+2.8	+3.0	+3.2
of which wholesale and retail trade	+2.6	+2.9	+3.4	+2.7	+2.2	+2.4	+2.7	+2.8	+2.9	+3.1
<b>Transportation and storage</b>	+2.4	+2.8	+3.2	-0.6	+2.0	+4.5	+2.8	+3.6	+3.3	+1.9
<b>Accommodation and food service activities</b>	+2.9	+6.1	+2.0	+1.9	+4.1	+3.8	+1.0	+11.7	+7.5	+6.0
<b>Information and communication</b>	+7.1	+6.4	+7.4	+8.2	+7.3	+5.6	+6.9	+6.0	+7.0	+5.8
<b>Financial and insurance activities</b>	+5.5	+5.5	+5.3	+5.4	+5.9	+5.4	+6.1	+5.7	+4.8	+5.4
Monetary intermediation	+5.6	+5.5	+5.5	+5.4	+6.0	+5.6	+6.0	+5.6	+4.6	+5.7
Financial leasing and other credit granting	+6.5	+6.5	+6.2	+6.4	+6.5	+6.8	+6.5	+6.7	+6.3	+6.5
Insurance, reinsurance and pension funding	+4.9	+5.0	+4.5	+4.9	+5.7	+4.4	+5.6	+5.8	+4.1	+5.0
Other	+5.5	+5.9	+5.2	+5.7	+5.5	+5.6	+5.9	+5.5	+6.2	+6.0
<b>Real estate activities</b>	+6.0	+5.2	+10.5	+8.7	+5.7	+0.5	+3.3	+4.6	+16.9	-3.1
of which Owner occupied dwellings	+5.9	+4.9	+10.8	+8.8	+5.5	-0.2	+2.9	+4.3	+18.1	-4.3
<b>Professional, scientific and technical activities</b>	+6.9	+5.5	+7.0	+6.9	+7.0	+6.7	+5.5	+5.6	+5.6	+5.4
<b>Administrative and support service activities</b>	+8.1	+7.9	+7.9	+7.8	+7.9	+8.7	+7.8	+8.0	+8.0	+7.8
<b>Public administration and defence: compulsory social security</b>	+0.9	+5.4	-2.0	+0.1	+2.7	+2.6	+1.1	+9.8	+3.9	+6.2
<b>Education</b>	+1.6	+2.6	+3.6	+0.8	+0.9	+1.1	+2.9	+1.9	+2.0	+3.7
<b>Human health and social work activities</b>	+5.4	+6.7	+7.5	+3.8	+4.3	+6.2	+5.8	+6.7	+6.4	+8.0
<b>Art , entertainment and recreation</b>	+7.7	+6.8	+7.5	+7.6	+7.6	+8.0	+7.0	+6.8	+6.8	+6.8
<b>Other service activities</b>	+4.3	+3.4	+3.1	+3.9	+4.6	+5.5	+3.3	+3.4	+3.4	+3.5
<b>Gross Value Added (GVA) at basic prices</b>	+3.4	+3.6	+4.3	+3.7	+3.4	+2.5	+2.9	+4.7	+4.7	+2.3
<b>Taxes on products (net of subsidies)</b>	+3.0	+4.8	-0.3	+4.2	+3.0	+4.8	+4.1	+6.5	+4.2	+4.3
<b>Gross Domestic Product at market prices</b>	+3.4	+3.7	+0.9	+2.8	+4.2	+5.2	+3.6	+4.9	+4.5	+2.3
<b>Export Oriented Enterprises</b>	-3.0	+2.5	-2.2	-0.7	-6.5	-2.1	+0.9	+5.6	+3.4	-0.4

Table 2 - (cont'd) Gross Value Added-sectoral growth rates (% over corresponding period of previous year), Q<sub>1</sub> 2013 - Q<sub>3</sub> 2017

	Annual growth rate		2015 <sup>1</sup>				2016 <sup>1</sup>				2017		
	2015	2016	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 <sup>1</sup>	Q2 <sup>1</sup>	Q3 <sup>2</sup>
<b>Agriculture, forestry and fishing</b>	+0.3	+3.7	-7.0	+1.6	+3.2	+0.8	+5.7	+4.4	+3.5	+2.5	+2.3	-1.6	+0.2
Sugarcane	-3.8	+5.5	-3.8	-4.6	-3.5	-3.7	+3.9	+5.5	+5.6	+6.0	-9.4	-9.5	-9.0
Other	+1.6	+3.2	-7.7	+1.8	+3.9	+4.5	+6.3	+4.2	+3.2	+0.6	+6.1	+1.4	+2.5
<b>Mining and quarrying</b>	-3.4	+1.0	-0.7	-2.9	-5.6	-3.5	-2.0	+3.3	+0.9	+1.4	+2.7	+1.9	+0.8
<b>Manufacturing</b>	+0.1	+0.3	+2.6	-2.6	-0.7	+1.5	-1.3	-0.9	+1.1	+1.5	+0.1	+2.3	+2.5
Sugar	-5.1	+7.0	-5.1	-5.1	-5.1	-5.1	+7.0	+7.0	+7.0	+7.0	+1.9	+1.9	+1.9
Food (exc sugar)	+3.0	+1.4	+7.2	+2.3	+0.6	+3.1	+1.0	+2.3	+1.1	+1.3	-2.6	+0.5	+1.5
Textile	-2.8	-5.8	-2.0	-7.2	-0.1	-2.0	-3.5	-14.0	+0.8	-6.4	-0.5	+5.8	-2.2
Other	-0.2	+4.8	+2.0	-3.2	-2.6	+3.1	-2.6	+6.0	+1.9	+11.0	+3.3	+0.8	+8.0
<b>Electricity , gas, steam and air conditioning supply</b>	+3.8	+4.2	+4.2	+2.1	+1.7	+6.9	+7.0	+4.0	+3.1	+2.3	-1.9	+4.7	+6.4
<b>Water supply; sewerage, waste management and remediation activities</b>	+3.0	+2.0	+3.4	+4.2	+1.9	+2.6	+1.2	+2.0	+3.7	+1.2	-1.8	+2.5	+4.0
<b>Construction</b>	-4.9	+0.0	-7.5	-7.5	-2.7	-1.8	-7.0	-7.3	+7.8	+6.1	+7.0	+10.0	+8.5
<b>Wholesale &amp; retail trade; repair of motor vehicles and motorcycles</b>	+2.8	+3.0	+2.8	+2.5	+3.1	+2.9	+3.1	+3.1	+2.9	+3.0	+3.6	+2.9	+2.6
of which wholesale and retail trade	+2.7	+3.0	+2.8	+2.5	+3.0	+2.6	+3.1	+3.0	+2.8	+3.0	+3.5	+2.8	+2.4
<b>Transportation and storage</b>	+3.4	+3.9	+2.8	+3.8	+2.9	+4.1	+3.7	+4.3	+4.1	+3.7	+4.2	+5.1	+2.0
<b>Accommodation and food service activities</b>	+8.7	+9.2	+9.7	+3.1	+10.1	+10.8	+10.8	+4.5	+7.4	+12.3	+2.8	+9.3	+4.1
<b>Information and communication</b>	+7.0	+5.9	+8.2	+8.7	+5.0	+6.2	+6.4	+5.6	+4.8	+6.8	+5.6	+5.6	+5.2
<b>Financial and insurance activities</b>	+5.3	+5.7	+4.6	+5.0	+5.5	+5.7	+5.8	+5.7	+5.6	+5.6	+5.2	+6.0	+5.5
Monetary intermediation	+5.4	+6.0	+4.2	+5.3	+5.9	+5.7	+6.2	+5.7	+6.0	+5.9	+5.4	+6.4	+5.7
Financial leasing and other credit granting <sup>o</sup>	+6.3	+6.5	+6.5	+6.3	+6.6	+5.8	+6.4	+6.6	+6.7	+6.3	+6.0	+6.5	+6.9
Insurance, reinsurance and pension funding	+4.6	+5.2	+4.6	+4.0	+4.5	+5.2	+5.3	+5.5	+4.7	+5.3	+4.8	+5.2	+5.0
Other	+5.8	+5.0	+6.5	+5.2	+5.5	+6.0	+5.0	+5.3	+4.9	+4.6	+4.8	+5.0	+4.9
<b>Real estate activities</b>	+4.2	+4.0	+2.3	+2.4	+1.7	+9.8	+6.2	+3.9	+3.4	+2.8	+3.0	+2.5	+3.1
of which Owner occupied dwellings	+4.0	+3.9	+1.8	+2.0	+1.2	+10.2	+6.3	+3.7	+3.2	+2.6	+2.6	+2.1	+2.8
<b>Professional, scientific and technical activities</b>	+5.1	+5.7	+4.8	+5.0	+5.2	+5.3	+5.7	+5.6	+5.8	+5.7	+5.7	+5.3	+5.0
<b>Administrative and support service activities</b>	+6.7	+5.9	+6.6	+6.8	+6.6	+6.8	+5.5	+5.8	+6.6	+5.6	+5.9	+5.9	+6.3
<b>Public administration and defence: compulsory social security</b>	+1.3	+2.7	+1.6	+3.0	+3.0	-2.4	+3.8	+0.3	+3.6	+3.4	+1.8	+1.8	+0.9
<b>Education</b>	+3.1	+0.8	+3.4	+4.1	+2.8	+2.0	+1.1	+0.4	+1.2	+0.5	+2.4	+1.5	+2.0
<b>Human health and social work activities</b>	+3.7	+2.4	+3.8	+3.5	+4.4	+3.0	+2.4	+2.0	+1.6	+3.7	+4.0	+6.3	+4.9
<b>Art , entertainment and recreation</b>	+4.8	+4.7	+4.7	+4.6	+4.8	+5.1	+4.8	+4.8	+4.9	+4.5	+4.5	+4.6	+4.6
<b>Other service activities</b>	+3.0	+3.1	+2.8	+2.8	+2.8	+3.6	+2.9	+2.9	+3.2	+3.2	+3.3	+2.9	+3.4
<b>Gross Value Added (GVA) at basic prices</b>	+3.1	+3.6	+3.2	+2.3	+3.0	+3.9	+3.8	+2.6	+3.7	+4.2	+3.4	+4.2	+3.6
<b>Taxes on products (net of subsidies)</b>	+6.9	+5.7	+12.1	+1.8	+7.0	+7.1	+5.4	+12.9	+1.6	+3.4	+4.1	+6.7	+4.2
<b>Gross Domestic Product at market prices</b>	+3.6	+3.8	+4.1	+2.2	+3.5	+4.3	+4.0	+3.8	+3.5	+4.1	+3.5	+4.5	+3.7
<b>Export Oriented Enterprises</b>	-3.1	-5.1	-3.7	-5.6	-0.9	-2.5	-1.9	-11.8	-0.3	-5.6	-4.2	+2.9	+1.8

1/ revised estimates 2/ first estimates

**Table 3 - Quarterly expenditure on Gross Domestic Product at current market prices, Q<sub>1</sub> 2013 - Q<sub>3</sub> 2017**

(R million)

	Year (Cumulated 4 quarters)		2013				2014			
	2013	2014	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Final consumption expenditure</b>	<b>330,895</b>	<b>350,457</b>	<b>77,035</b>	<b>79,017</b>	<b>82,814</b>	<b>92,029</b>	<b>80,899</b>	<b>84,439</b>	<b>87,508</b>	<b>97,611</b>
Households	276,507	292,343	63,975	65,634	69,265	77,632	67,240	69,871	73,232	82,000
General Government	54,388	58,114	13,060	13,383	13,549	14,397	13,659	14,568	14,276	15,611
<b>Gross fixed capital formation</b>	<b>77,618</b>	<b>73,989</b>	<b>17,717</b>	<b>18,481</b>	<b>19,998</b>	<b>21,421</b>	<b>17,419</b>	<b>17,857</b>	<b>17,925</b>	<b>20,790</b>
<b>A. Building &amp; construction work</b>	<b>50,111</b>	<b>47,016</b>	<b>12,121</b>	<b>12,627</b>	<b>12,722</b>	<b>12,642</b>	<b>11,760</b>	<b>11,667</b>	<b>11,788</b>	<b>11,803</b>
Residential building	23,286	21,532	5,721	5,868	5,787	5,910	5,523	4,782	5,597	5,630
Non residential building	15,925	12,877	3,853	4,211	4,261	3,600	2,917	3,499	3,230	3,231
Other construction work	10,900	12,607	2,546	2,548	2,674	3,132	3,319	3,386	2,960	2,942
<b>B. Machinery &amp; equipment</b>	<b>27,507</b>	<b>26,973</b>	<b>5,596</b>	<b>5,855</b>	<b>7,277</b>	<b>8,779</b>	<b>5,659</b>	<b>6,190</b>	<b>6,137</b>	<b>8,987</b>
Passenger car	3,714	3,630	857	796	833	1,229	819	915	897	999
Other transport equipment	5,247	4,658	629	559	1,534	2,525	575	675	672	2,736
<i>Other transport equipment (excluding aircraft &amp; marine vessel)</i>	2,617	2,645	599	559	534	925	575	675	672	723
Other machinery and equipment	18,545	18,685	4,110	4,500	4,910	5,025	4,265	4,600	4,568	5,252
<b>Change in inventories</b>	<b>4,429</b>	<b>3,152</b>	<b>1,293</b>	<b>184</b>	<b>2,841</b>	<b>111</b>	<b>363</b>	<b>915</b>	<b>978</b>	<b>895</b>
<b>Exports of goods and services</b>	<b>180,305</b>	<b>200,198</b>	<b>44,908</b>	<b>43,786</b>	<b>42,586</b>	<b>49,026</b>	<b>45,257</b>	<b>51,150</b>	<b>51,016</b>	<b>52,776</b>
Goods (f.o.b)	88,048	94,776	20,307	21,668	22,408	23,665	20,476	24,447	25,254	24,599
Services	92,257	105,422	24,601	22,118	20,178	25,361	24,781	26,703	25,762	28,177
<b>Less Imports of goods and services</b>	<b>229,219</b>	<b>243,980</b>	<b>52,520</b>	<b>52,826</b>	<b>58,512</b>	<b>65,360</b>	<b>52,356</b>	<b>58,643</b>	<b>64,299</b>	<b>68,683</b>
Goods (f.o.b)	157,673	164,170	35,917	36,717	40,014	45,025	34,054	40,001	43,667	46,448
Services	71,546	79,810	16,603	16,109	18,498	20,335	18,302	18,642	20,632	22,235
Statistical Discrepancies	8,369	8,245	-2,204	1,898	2,878	5,797	-1,067	1,084	4,027	4,200
<b>Gross Domestic Product at market prices</b>	<b>372,397</b>	<b>392,062</b>	<b>86,228</b>	<b>90,540</b>	<b>92,605</b>	<b>103,024</b>	<b>90,515</b>	<b>96,802</b>	<b>97,155</b>	<b>107,590</b>

Table 3 (cont'd) - Quarterly expenditure on Gross Domestic Product at current market prices, Q<sub>1</sub> 2013- Q<sub>3</sub> 2017

(Rs Million)

	Year (Cumulated 4 quarters)		2015 <sup>1</sup>				2016 <sup>1</sup>				2017		
	2015	2016	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 <sup>1</sup>	Q2 <sup>2</sup>	Q3 <sup>1</sup>
<b>Final consumption expenditure</b>	<b>367,417</b>	<b>386,679</b>	<b>85,171</b>	<b>89,270</b>	<b>93,078</b>	<b>99,898</b>	<b>89,483</b>	<b>93,862</b>	<b>97,174</b>	<b>106,161</b>	<b>94,468</b>	<b>99,814</b>	<b>103,595</b>
Households	306,206	319,809	70,717	73,493	77,790	84,206	73,741	76,363	80,689	89,017	77,867	81,437	86,538
General Government	61,211	66,870	14,454	15,777	15,287	15,693	15,742	17,499	16,485	17,145	16,601	18,376	17,057
<b>Gross fixed capital formation</b>	<b>71,155</b>	<b>74,990</b>	<b>17,518</b>	<b>17,769</b>	<b>17,724</b>	<b>18,144</b>	<b>18,477</b>	<b>17,667</b>	<b>19,769</b>	<b>19,077</b>	<b>18,548</b>	<b>19,560</b>	<b>21,314</b>
<b>A. Building &amp; construction work</b>	<b>45,717</b>	<b>46,408</b>	<b>11,146</b>	<b>11,350</b>	<b>11,542</b>	<b>11,680</b>	<b>10,745</b>	<b>10,621</b>	<b>12,602</b>	<b>12,440</b>	<b>11,492</b>	<b>11,598</b>	<b>13,707</b>
Residential building	21,925	24,859	5,450	5,415	5,613	5,447	5,857	5,600	6,939	6,463	5,847	5,713	6,642
Non residential building	10,726	9,872	2,683	2,740	2,703	2,599	2,124	2,191	2,742	2,815	2,641	2,750	3,834
Other construction work	13,067	11,677	3,013	3,195	3,225	3,634	2,764	2,830	2,921	3,162	3,003	3,134	3,231
<b>B. Machinery &amp; equipment</b>	<b>25,438</b>	<b>28,582</b>	<b>6,372</b>	<b>6,420</b>	<b>6,182</b>	<b>6,464</b>	<b>7,732</b>	<b>7,046</b>	<b>7,167</b>	<b>6,637</b>	<b>7,056</b>	<b>7,963</b>	<b>7,607</b>
Passenger car	3,780	4,326	889	999	961	932	1,030	1,063	1,023	1,210	889	999	1,350
Other transport equipment	2,216	4,531	633	546	472	565	1,137	1,043	1,494	857	704	1,458	1,105
Other transport equipment (excluding aircraft & marine vessel)	2,216	3,033	633	546	472	565	668	906	869	590	704	808	755
Other machinery and equipment	19,442	19,725	4,850	4,875	4,750	4,967	5,565	4,940	4,650	4,570	5,463	5,506	5,152
<b>Change in inventories</b>	<b>2,999</b>	<b>2,837</b>	<b>486</b>	<b>1,683</b>	<b>260</b>	<b>571</b>	<b>1,440</b>	<b>475</b>	<b>981</b>	<b>-59</b>	<b>767</b>	<b>213</b>	<b>-568</b>
<b>Exports of goods and services</b>	<b>200,008</b>	<b>193,230</b>	<b>49,280</b>	<b>50,537</b>	<b>48,717</b>	<b>51,474</b>	<b>49,363</b>	<b>45,677</b>	<b>46,328</b>	<b>51,862</b>	<b>47,777</b>	<b>47,004</b>	<b>47,712</b>
Goods (f.o.b)	93,290	83,851	22,410	24,825	23,706	22,349	20,948	21,205	20,792	20,906	19,687	20,348	21,111
Services	106,718	109,379	26,870	25,712	25,011	29,125	28,415	24,472	25,536	30,956	28,090	26,656	26,601
<b>Less Imports of goods and services</b>	<b>241,189</b>	<b>234,087</b>	<b>57,218</b>	<b>60,329</b>	<b>60,530</b>	<b>63,112</b>	<b>53,839</b>	<b>56,302</b>	<b>60,263</b>	<b>63,683</b>	<b>59,087</b>	<b>61,811</b>	<b>62,047</b>
Goods (f.o.b)	158,688	156,633	36,694	40,546	39,550	41,898	35,317	38,074	39,604	43,638	39,188	42,058	41,134
Services	82,501	77,454	20,524	19,783	20,980	21,214	18,522	18,228	20,659	20,045	19,899	19,753	20,913
Statistical discrepancies	9,502	10,701	387	1,267	2,899	4,949	-3,365	4,913	3,907	5,246	4,835	8,748	3,509
<b>Gross Domestic Product at market prices</b>	<b>409,893</b>	<b>434,350</b>	<b>95,623</b>	<b>100,197</b>	<b>102,148</b>	<b>111,924</b>	<b>101,559</b>	<b>106,291</b>	<b>107,894</b>	<b>118,605</b>	<b>107,308</b>	<b>113,527</b>	<b>113,515</b>

1/ revised estimates 2/ first estimates



**Table 4 - Expenditure on GDP at market prices- Growth rates (% over corresponding period of previous year), Q<sub>1</sub> 2013 - Q<sub>3</sub> 2017**

	Annual growth rate		2013				2014			
	2013	2014	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Final consumption eacpenditure</b>	<b>+2.5</b>	<b>+2.9</b>	<b>+3.0</b>	<b>+2.5</b>	<b>+2.4</b>	<b>+2.0</b>	<b>+1.6</b>	<b>+3.5</b>	<b>+3.1</b>	<b>+3.4</b>
Households	+2.6	+2.6	+2.7	+2.6	+3.0	+2.1	+1.6	+2.9	+3.1	+2.9
General Government	+1.8	+4.6	+4.3	+1.8	-0.3	+1.5	+1.8	+6.6	+3.1	+6.5
<b>Gross fixed capital formation</b>	<b>-3.3</b>	<b>-5.9</b>	<b>-10.7</b>	<b>-4.3</b>	<b>-0.6</b>	<b>+1.9</b>	<b>-3.3</b>	<b>-4.5</b>	<b>-11.4</b>	<b>-4.2</b>
<b>A. Building &amp; construction work</b>	<b>-10.2</b>	<b>-7.4</b>	<b>-4.1</b>	<b>-4.1</b>	<b>-11.4</b>	<b>-19.1</b>	<b>-5.1</b>	<b>-8.9</b>	<b>-8.4</b>	<b>-7.1</b>
Residential building	+3.0	-8.8	+22.7	+12.0	-3.0	-12.5	-5.5	-19.7	-4.4	-5.2
Non residential building	-17.5	-20.2	-19.1	-6.6	-10.6	-31.9	-25.9	-18.1	-25.1	-10.7
Other construction work	-21.4	+14.1	-20.9	-25.6	-26.5	-12.6	+27.6	+31.0	+9.4	-6.6
<b>B. Machinery &amp; equipment</b>	<b>+11.7</b>	<b>-3.2</b>	<b>-21.6</b>	<b>-4.4</b>	<b>+25.8</b>	<b>+59.7</b>	<b>+0.1</b>	<b>+4.6</b>	<b>-16.5</b>	<b>+0.3</b>
Passenger car	-5.0	-4.2	-1.0	-18.4	-16.7	+13.6	-6.1	+14.1	+6.4	-20.6
Other transport equipment	+80.3	-13.0	-27.2	-17.8	+122.0	+281.4	-11.1	+17.4	-57.3	+6.0
<i>Other transport equipment (excluding aircraft &amp; marine vessel)</i>	<i>-10.1</i>	<i>-0.9</i>	<i>-31.0</i>	<i>-18.3</i>	<i>-23.0</i>	<i>+39.4</i>	<i>-5.7</i>	<i>+18.7</i>	<i>+23.8</i>	<i>-23.2</i>
Other machinery and equipment	+3.9	-0.2	-23.9	+0.4	+20.1	+33.2	+2.7	+1.2	-7.9	+3.5
<b>Exports of goods and services</b>	<b>-5.8</b>	<b>+10.9</b>	<b>-7.5</b>	<b>-10.9</b>	<b>-4.0</b>	<b>-0.6</b>	<b>+0.7</b>	<b>+17.0</b>	<b>+20.0</b>	<b>+6.9</b>
Goods (f.o.b)	+4.6	+12.1	+4.2	-0.4	+5.9	+8.5	+3.4	+18.4	+18.8	+7.7
Services	-13.6	+9.8	-15.0	-18.8	-12.6	-7.7	-1.4	+15.7	+21.3	+6.2
<b>Less Imports of goods and services</b>	<b>-0.4</b>	<b>+8.5</b>	<b>-4.4</b>	<b>-9.3</b>	<b>+4.9</b>	<b>+6.8</b>	<b>+0.7</b>	<b>+8.8</b>	<b>+8.9</b>	<b>+14.3</b>
Goods (f.o.b)	+4.7	+8.0	-1.7	-2.9	+11.0	+12.2	-1.7	+8.4	+9.4	+14.4
Services	-11.0	+9.6	-10.1	-21.9	-7.2	-4.7	+6.1	+10.0	+7.5	+14.2

**Table 4 (cont'd) - Expenditure on GDP at market prices - Growth rates (% over corresponding period of previous year), Q<sub>1</sub> 2013-Q<sub>3</sub> 2017**

	Annual growth rate		2015 <sup>1</sup>				2016 <sup>1</sup>				2017		
	2015	2016	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 <sup>1</sup>	Q2 <sup>1</sup>	Q3 <sup>2</sup>
<b>Final consumption expenditure</b>	<b>+3.0</b>	<b>+2.9</b>	<b>+2.7</b>	<b>+3.4</b>	<b>+3.5</b>	<b>+2.3</b>	<b>+2.5</b>	<b>+3.2</b>	<b>+2.6</b>	<b>+3.2</b>	<b>+3.5</b>	<b>+2.9</b>	<b>+2.8</b>
Households	+2.9	+3.0	+2.5	+2.9	+3.2	+3.0	+2.6	+2.8	+2.9	+3.4	+3.4	+3.0	+2.9
General Government	+3.1	+2.4	+3.8	+5.7	+4.8	-1.6	+2.0	+4.7	+1.0	+1.9	+4.1	+2.8	+2.2
<b>Gross fixed capital formation</b>	<b>-5.4</b>	<b>+3.7</b>	<b>-0.8</b>	<b>-2.1</b>	<b>-2.9</b>	<b>-14.4</b>	<b>+3.5</b>	<b>-2.3</b>	<b>+9.8</b>	<b>+3.8</b>	<b>+0.5</b>	<b>+10.5</b>	<b>+6.3</b>
<b>A. Building &amp; construction work</b>	<b>-4.1</b>	<b>+1.5</b>	<b>-6.2</b>	<b>-4.0</b>	<b>-3.7</b>	<b>-2.5</b>	<b>-3.8</b>	<b>-6.3</b>	<b>+9.3</b>	<b>+6.4</b>	<b>+6.4</b>	<b>+8.4</b>	<b>+8.1</b>
Residential building	+0.4	+13.3	-2.4	+11.8	-1.3	-4.7	+7.3	+3.5	+23.7	+18.6	-0.7	+1.3	-4.9
Non residential building	-17.8	-8.0	-9.0	-22.7	-17.7	-20.7	-21.0	-20.0	+1.5	+8.2	+23.7	+24.7	+38.9
Other construction work	+2.2	-10.7	-10.2	-6.9	+7.2	+21.7	-8.5	-11.3	-9.3	-13.1	+8.1	+10.0	<b>+9.9</b>
<b>B. Machinery &amp; equipment</b>	<b>-7.8</b>	<b>+7.7</b>	<b>+10.1</b>	<b>+1.4</b>	<b>-1.5</b>	<b>-30.3</b>	<b>+16.1</b>	<b>+4.7</b>	<b>+10.7</b>	<b>-1.0</b>	<b>-8.1</b>	<b>+13.4</b>	<b>+3.4</b>
Passenger car	+1.1	+11.1	+5.9	+6.4	+4.3	-9.6	+12.3	+2.9	+2.9	+26.4	+9.1	+15.7	+29.4
Other transport equipment	-53.8	+98.5	+7.2	-21.3	-31.7	-80.0	+75.0	+86.2	+208.7	+48.0	-39.6	+35.9	-28.0
<i>Other transport equipment (excluding aircraft &amp; marine vessel)</i>	-18.7	+32.9	+6.6	-21.7	-32.1	-24.4	+2.9	+61.7	+79.7	+1.9	+2.1	-13.6	-15.8
Other machinery and equipment	+2.0	-3.4	+11.3	+3.7	+1.7	-7.5	+9.1	-3.7	-7.0	-12.6	-4.6	+8.3	+7.7
<b>Exports of goods and services</b>	<b>-0.7</b>	<b>-5.0</b>	<b>+12.9</b>	<b>-2.6</b>	<b>-5.8</b>	<b>-5.7</b>	<b>-4.0</b>	<b>-9.5</b>	<b>-5.8</b>	<b>-0.8</b>	<b>-1.9</b>	<b>+0.0</b>	<b>-1.1</b>
Goods (f.o.b)	-2.7	-11.2	+15.1	-0.5	-8.4	-13.3	-11.1	-14.4	-12.5	-6.4	-2.0	-4.4	-3.6
Services	+1.1	+0.6	+11.1	-4.6	-3.0	+1.4	+2.0	-4.7	+0.8	+3.7	-1.8	+4.0	+0.9
<b>Less Imports of goods and services</b>	<b>+6.2</b>	<b>-0.2</b>	<b>+16.5</b>	<b>+10.2</b>	<b>+4.8</b>	<b>-2.7</b>	<b>+6.4</b>	<b>-2.0</b>	<b>+1.6</b>	<b>-3.3</b>	<b>-6.4</b>	<b>+7.3</b>	<b>+1.9</b>
Goods (f.o.b)	+8.4	+4.0	+18.8	+12.9	+5.8	-0.1	+12.7	+1.2	+3.8	-0.7	-7.0	+6.3	+2.3
Services	<b>+1.6</b>	<b>-8.2</b>	+11.6	+3.6	+2.5	-8.9	-7.9	-10.6	-4.1	-10.3	-4.5	+10.6	+0.8

## ANNEX

### Concepts, data sources and methods for compiling quarterly GDP estimates

#### 1. Concepts and definitions

The quarterly estimates have been compiled according to guidelines provided in the IMF manual entitled “Quarterly National Accounts Manual – Concepts, Data sources and Compilation”, which is itself based on the System of National Accounts (SNA) of the United Nations and are therefore consistent with annual estimates of the National Accounts.

#### 2. Sources of data

The objective of the Quarterly National Accounts (QNA) is to provide the best indication of quarterly movements. Indicators for QNA have therefore been chosen according to their ability to capture the movements in the performance of the various sectors.

The main sources of data for compiling QNA estimates include quarterly production accounts of various organisations, quarterly surveys on income and expenditure among enterprises considered as drivers in specific sectors, quarterly quantity produced, quarterly expenditure of Government from the Accountant General Department, quarterly data from administrative sources such as building permits from local government, foreign trade data from the Customs Department, turnover data from the VAT systems, tourism receipts from the Bank of Mauritius, as well as some indirect indicators such as employment.

#### 3. Methods used

When data on both output and input are available, the quarterly value added estimates are computed as the difference between the output and the intermediate consumption (inputs consumed in the process). When the quarterly output only is readily available or is compiled on the basis of quarterly data on quantity produced, the value added is computed using the production structure of the industry obtained at the latest Census of Economic Activities or from the latest annual production accounts available. When indicators on quarterly volume produced and price only are available, these are applied to the last quarterly value added figures to have the estimates for the quarter under review.

Constant price estimates exclude price effects of prices and therefore provide real growths. The constant price estimates are computed using the double deflation method for sectors where information on both inputs and outputs is available. In practice such data are difficult to obtain, hence ‘proxy indicators’ of volume changes are used if available, otherwise value series are deflated by an appropriate price index.

As recommended in the Quarterly National Accounts Manual, the Annual Overlap Technique has been used to derive constant quarterly estimates, instead of the traditional fixed-base year constant price estimates. This technique entails compiling estimates for each quarter at the weighted annual average prices of the previous year. The volume data of QNA are then chain-linked to obtain the constant price series.

#### 4. Seasonal adjustment of quarterly GDP

Value added by sector and total GDP have been seasonally adjusted and are published on the web site of the office. The methodology adopted in the seasonal adjustment exercise is briefly given below. Seasonally adjusted time series has historically been a common practice in analyzing business cycles. Currently this is widely used by a majority of statistical offices, central banks and policy analysts to describe and understand the most recent economic developments.

#### **4.1 Procedures for seasonal adjustment of quarterly GDP**

QNA data are subject to seasonal variations which are recurrent within a year pattern. For example, activities of “Wholesale and retail trade” are usually lowest in the first quarters, but highest in the fourth quarters in line with the high demand for consumption goods at the end of the year; activities of “Hotels and restaurants” are highest in the first and last quarters in line with high tourist arrivals during these quarters. For meaningful comparison of quarter to quarter growth, particularly for identifying turning points, the seasonal component must be removed from the data.

The procedures for carrying out the seasonal adjustment exercise are as follows:

- (i) The software, Demetra, developed by Eurostat and which includes the X-12 program has been used.
- (ii) Forward adjustment, instead of concurrent adjustment, has been used for quarterly series up to the most recently completed year, that is seasonal factors for the four quarters ahead are estimated using the X-12 procedure. When a new data point becomes available, the seasonally adjusted value of the new data point is obtained by dividing it by the appropriate forward factor if model is multiplicative or subtracting from it the appropriate forward factor if the underlying model is additive.
- (iii) The seasonal adjustment exercise has been reworked using data estimated up to third quarter of 2016. In the light of the new seasonal factors, the seasonally adjusted growth rates have been revised.
- (iv) Direct adjustment of the aggregate GDP has been used to obtain seasonally adjusted GDP.
- (v) Adjustments have been made so that the sums of quarterly seasonally adjusted data are equal to the original yearly totals.

It should be noted that different seasonal adjustment methods, no matter how carefully they have been implemented, do not always yield identical results if applied to the same time series. In addition, even if the same seasonal adjustment method is applied, there may be substantial revisions, particular towards the end of the time series, when new data are included in the calculation and taking account of possible shifts in the seasonal movements. Consequently, seasonally adjusted data remain provisional for longer than unadjusted figures, which are also subject to revisions.

#### **5. Data sources, methods and indicators used for the estimation of quarterly GDP**

The table below gives the data sources and methods used for the estimation of quarterly GDP estimates at current and constant prices by both the production and expenditure approaches.

### Production approach

Industry group	Data sources	Methods	Indicator - constant price estimates
<b>A. Agriculture, Forestry and Fishing</b>			
Sugar Cane	<ul style="list-style-type: none"> <li>- Annual production and price of sugar.</li> <li>- Survey of sugar factories for the quarterly cost structure.</li> </ul>	<ul style="list-style-type: none"> <li>- Final estimates: Based on the final annual production accounts. Annual gross output and intermediate consumption are allocated to quarters according to cost structure of cane growing furnished by surveyed sugar factories. The value added is thereafter derived.</li> <li>- Preliminary estimates: value added for the year based on expected production and price of sugar is quarterlised using the latest value added structure.</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using PPI-A for output and a weighted price index based on relevant components of the CPI for inputs</li> <li>- Preliminary quarterly changes are based on the annual price deflator.</li> </ul>
Tea	<ul style="list-style-type: none"> <li>- Quarterly production and prices of tea from Tea Board.</li> <li>- Benchmark ratios from Agricultural Cost of Production Survey (ACOPS 2005)</li> </ul>	<ul style="list-style-type: none"> <li>- Output based on quarterly production and prices.</li> <li>- Value added derived using the production structure obtained at the ACOPS 2005.</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using relevant component of the Producer Price Index.</li> <li>- Agriculture (PPI-A) for output and a weighted price index based on retail prices of relevant inputs for IC.</li> </ul>
Food crops	<ul style="list-style-type: none"> <li>- Monthly quantities of food crops from Agricultural Research and Extension Unit (AREU).</li> <li>- Retail prices through the monthly consumer price surveys.</li> <li>- Benchmark ratios from Agricultural Cost of Production Survey (ACOPS 2005)</li> </ul>	<ul style="list-style-type: none"> <li>- Output is based on quarterly quantities of food crops produced and producers' price obtained from retail prices adjusted for transport and trade margins.</li> <li>- Value added derived using the production structure obtained at the ACOPS 2005.</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using relevant component of Producer Price Index - Agriculture (PPI-A) for output and a weighted price index based on retail prices of relevant inputs for IC.</li> </ul>
Flowers	<ul style="list-style-type: none"> <li>- Quarterly exports of flowers from Trade Statistics. An estimate is worked out for locally sold flowers, based on number of weddings, deaths, religious ceremonies, etc.</li> </ul>	<ul style="list-style-type: none"> <li>- Output is based on quarterly quantities produced and on producers' price obtained from retail prices adjusted for transport and trade margins</li> <li>- Value added derived using the production structure obtained at the ACOPS 2005</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using relevant component of Producer Price Index - Agriculture (PPI-A) for output and a weighted price index based on retail prices of relevant inputs for IC.</li> </ul>

Industry group	Data sources	Methods	Indicator - constant price estimates
Fruits	<ul style="list-style-type: none"> <li>- Monthly production of some fruits from FAREI.</li> <li>- Quarterly production of other fruits based on CA 2014, supplemented with data from other sources.</li> <li>- Benchmark ratios from Agricultural Cost of Production Survey (ACOPS 2005)</li> </ul>	<ul style="list-style-type: none"> <li>- Value added based on quarterly quantities produced and on producers' price obtained from retail prices adjusted for transport and trade margins.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation using component of PPI-A</li> </ul>
Livestock, Poultry and Related Products	<ul style="list-style-type: none"> <li>- Quarterly production of poultry from survey among main breeders.</li> <li>- Monthly quantity of livestock slaughtered from the Mauritius Meat Authority (MMA) adjusted for illegal slaughtering.</li> <li>- Retail prices.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added based on quarterly quantities produced and on producers' price derived from retail prices adjusted for transport and trade margins.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation using component of PPI-A.</li> </ul>
Government Services	<ul style="list-style-type: none"> <li>- Expenditure of Budgetary Central Government from the Accountant General Department.</li> <li>- Expenditure for Rodrigues from Rodrigues Regional Assembly.</li> <li>- Expenditure for EBUs and Local Government is estimated.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added is estimated at cost, that is, it is equal to compensation of employees and consumption of fixed capital.</li> </ul>	<ul style="list-style-type: none"> <li>- Compensation of Employees is deflated using the annual wage rate index based on salary compensation.</li> <li>- Consumption of Fixed Capital is deflated using the quarterly Construction Price Index (for Construction items) Vehicle Price Index (for vehicles) and a combination of PPI and IPI (for machinery and equipment excluding vehicles).</li> </ul>
Fishing	<ul style="list-style-type: none"> <li>- Quarterly quantities of fish caught from the Albion Fisheries Research Centre (AFRC) Retail prices.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added based on quarterly quantities of fish caught and producers' price derived from retail prices adjusted for trade margins.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation by quarterly changes in the estimated producers' price based on retail prices.</li> </ul>

Industry group	Data sources	Methods	Indicator - constant price estimates
<b>B. Mining &amp; Quarrying</b>			
Mining & Quarrying	<ul style="list-style-type: none"> <li>- Quarterly quantities of salt produced and sand extracted, and their prices through surveys of establishments.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added derived using data collected from quarterly surveys</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation using appropriate component of CPI.</li> </ul>
	<ul style="list-style-type: none"> <li>- Quarterly data from the VAT systems from the Mauritius Revenue Authority (MRA).</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly data obtained from the VAT systems.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation using component of PPI-M.</li> </ul>
<b>C. Manufacturing</b>			
Sugar Milling	<ul style="list-style-type: none"> <li>- Annual production and price of sugar.</li> <li>- Final annual production accounts.</li> <li>- Survey of sugar factories to have the quarterly cost structure.</li> </ul>	<ul style="list-style-type: none"> <li>- Final estimates: Based on the final annual production accounts; Annual gross output and intermediate consumption are allocated to quarters according to cost structure of sugar milling activities furnished by surveyed sugar factories. The value added is thereafter derived.</li> <li>- Preliminary estimates: value added for the year based on expected production and price of sugar. The estimate is quarterlised using the latest value added structure.</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using PPI-A for output and a weighted price index based on relevant components of the CPI for inputs.</li> <li>- Preliminary quarterly changes are based on the annual price deflator</li> </ul>
Export Oriented Enterprises (EOE)	<ul style="list-style-type: none"> <li>- Quarterly exports from Trade statistics.</li> <li>- Quarterly survey of establishments</li> <li>- Level of stock from quarterly stock surveys</li> <li>- Quarterly turnover from VAT systems.</li> </ul>	<ul style="list-style-type: none"> <li>- Quarterly value added based on quarterly gross output compiled from these sources and last annual technical ratio.</li> </ul>	<ul style="list-style-type: none"> <li>- Volume index by industry from Quarterly Index of Industrial Production (QIIP).</li> </ul>
Non – EOE	<ul style="list-style-type: none"> <li>- Quarterly exports from Trade Statistics</li> <li>- Quarterly turnover from the VAT systems,</li> <li>- Production of excisable goods from Customs and Excise Department</li> <li>- Quarterly survey of establishments</li> <li>- Level of stock from quarterly stock surveys</li> </ul>	<ul style="list-style-type: none"> <li>- Quarterly value added estimates based on quarterly gross output compiled from these sources and latest annual technical ratio.</li> </ul>	<ul style="list-style-type: none"> <li>- Volume index by industry from Quarterly Index of Industrial Production (QIIP)</li> </ul>
<b>D. Electricity, Gas, Steam and air conditioning supply</b>			
Electricity, gas and steam	<ul style="list-style-type: none"> <li>- Quarterly production accounts from Central Electricity Board (CEB)</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly accounts.</li> </ul>	<ul style="list-style-type: none"> <li>- Volume based on quarterly quantity of electricity sold (All sales by CEB).</li> </ul>
	<ul style="list-style-type: none"> <li>- Quarterly production data of the Independent Power Producers</li> </ul>	<ul style="list-style-type: none"> <li>- Value added derived from the value of electricity purchased by CEB and quarterly technical ratio of the previous year.</li> </ul>	

Industry group	Data sources	Methods	Indicator - constant price estimates
<b>E. Water Supply; sewerage, waste management and remediation activities</b>			
Water supply	- Quarterly production accounts from Central Water Authority (CWA)	- Value added compiled from quarterly accounts of CWA	Volume based on quarterly quantity of water sold.
Sewerage and waste management activities	- Quarterly data from the VAT Department	- Value added based on quarterly turnover obtained from the VAT systems.	- Deflation by appropriate component of consumer price index.
<b>F. Construction</b>			
Construction	<ul style="list-style-type: none"> <li>- Monthly building permits from Municipalities and District Councils</li> <li>- Quarterly capital expenditure estimates of General Government from Accountant General Department</li> <li>- Maintenance expenditure by Government based on quarterly output of the Ministry of Public Infrastructure from Accountant General Department</li> <li>- Maintenance expenditure by households from latest Household Budget Survey</li> </ul>	- Quarterly output based on these sources and quarterly value added derived using the production structure obtained at the 2013 CEA.	- Deflation by quarterly Construction Price Index.
<b>- G. Wholesale &amp; Retail Trade, Repair of Motor Vehicles, Motorcycles</b>			
Wholesale & Retail Trade	<ul style="list-style-type: none"> <li>- Quarterly imports from Trade statistics</li> <li>- Local production from Agriculture statistics and Industrial statistics</li> </ul>	<ul style="list-style-type: none"> <li>- For imported goods, gross output based on trade margins computed from quarterly imports.</li> <li>- For local production, gross output based on trends of production of food crops and production of the non-EOE sector (local consumption).</li> <li>- Value added derived using the production structure obtained at the 2013 CEA.</li> </ul>	<ul style="list-style-type: none"> <li>- Change in volume of imports derived by deflating imports by sector by relevant IPI components.</li> <li>- Local component – Deflation by overall CPI</li> </ul>
Repair of motor vehicles and motor cycles	<ul style="list-style-type: none"> <li>- Imports of spare parts.</li> <li>- Quarterly VAT data</li> <li>- Road transport statistics (number of vehicles registered and number of accidents)</li> </ul>	- Quarterly estimates based on imports of spare parts, changes in number of vehicles registered and number of accidents.	- Deflation by overall CPI.



Industry group	Data sources	Methods	Indicator - constant price estimates
<b>H. Transport and Storage</b>			
Land Transport			
Bus	<ul style="list-style-type: none"> <li>- Quarterly production accounts of bus companies and bus fleet from National Transport Authority (NTA)</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly accounts</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using bus fare for output and relevant CPI components for inputs.</li> </ul>
Taxi	<ul style="list-style-type: none"> <li>- Quarterly licences of taxi cars from NTA</li> <li>- Taxi fares from monthly consumer price surveys.</li> </ul>	<ul style="list-style-type: none"> <li>- Output based on the quarterly number of licences delivered and taxi fare.</li> <li>- Value added derived using the production structure obtained at the 2013 CEA.</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using relevant CPI components for output and inputs.</li> </ul>
Lorries	<ul style="list-style-type: none"> <li>- Quarterly licences of lorries from the National Transport Authority</li> <li>- Lorry charges based on CEA.</li> </ul>	<ul style="list-style-type: none"> <li>- Output based on the quarterly licences of lorries.</li> <li>- Value added derived using the structure obtained at the 2013 CEA.</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using relevant CPI components for output and inputs.</li> </ul>
Water transport	<ul style="list-style-type: none"> <li>- Quarterly number of passengers from Mauritius Shipping Corporation.</li> </ul>	<ul style="list-style-type: none"> <li>- The number of passengers and fares charged as per CPI are used to estimate quarterly output.</li> <li>- Value added is derived using the production structure obtained at the 2013 CEA.</li> </ul>	<ul style="list-style-type: none"> <li>- Volume based on number of passengers.</li> </ul>
Air transport	<ul style="list-style-type: none"> <li>- Quarterly receipts and expenditure from Air Mauritius Ltd.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly accounts</li> </ul>	<ul style="list-style-type: none"> <li>- Double deflation using airfare index for output and relevant CPI components for inputs.</li> </ul>
Services allied to transport	<ul style="list-style-type: none"> <li>- Quarterly receipts and expenditure from Mauritius Ports Authority (MPA) and Cargo Handling Corporation (CHC).</li> <li>- Quarterly indicators such as tourist arrivals and number of Mauritian travelling abroad.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly accounts where available.</li> <li>- For other related activities, annual estimates are quarterlised using the quarterly indicators.</li> </ul>	<ul style="list-style-type: none"> <li>- Goods: Volume based on tonnage of goods loaded and unloaded.</li> <li>- Passengers: Volume based on quarterly indicators.</li> </ul>
Storage	<ul style="list-style-type: none"> <li>- Quarterly data from the VAT Department.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from the quarterly data obtained from the VAT Department</li> </ul>	<ul style="list-style-type: none"> <li>- Changes in quarterly export of sugar and relevant components deflated by overall CPI</li> </ul>

Industry group	Data sources	Methods	Indicator - constant price estimates
<b>I. Accommodation and food service activities</b>			
Accommodation and food services activities	<ul style="list-style-type: none"> <li>- Quarterly tourist arrivals from Tourism statistics</li> <li>- Quarterly tourist earnings from Bank of Mauritius</li> <li>- Expenditure on food and accommodation by tourists from Survey of tourist expenditure</li> </ul>	<ul style="list-style-type: none"> <li>- Gross output based on quarterly estimates of expenditure on food and accommodation derived from quarterly tourist earnings and pattern of expenditure of tourists.</li> <li>- Value added is estimated using the production structure obtained from latest available annual production accounts.</li> </ul>	<ul style="list-style-type: none"> <li>- Volume based on number of tourist arrivals for 'Accommodation'.</li> <li>- Food service activities deflated by CPI component measuring price of meals in bars and restaurants.</li> </ul>
<b>J. Information and communication</b>			
Telecommunication services	<ul style="list-style-type: none"> <li>- Quarterly data from the VAT systems from the Mauritius Revenue Authority (MRA).</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly turnover obtained from the VAT systems.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation by changes in the price of telephone calls.</li> </ul>
Activities related to information and communication	<ul style="list-style-type: none"> <li>- Quarterly data from the VAT systems from the Mauritius Revenue Authority (MRA).</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly turnover obtained from the VAT systems.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation by overall consumer price index.</li> </ul>
<b>K. Financial and insurance activities</b>			

Financial and insurance activities	<ul style="list-style-type: none"> <li>- Quarterly surveys of banks, insurance companies and other financial institutions</li> </ul>	<ul style="list-style-type: none"> <li>- Value added compiled from quarterly accounts.</li> </ul>	<ul style="list-style-type: none"> <li>- Banks (Segment A): Deflation using a weighted average "FISIM rate" and changes in local CPI component measuring financial services</li> <li>- Banks (Segment B): Deflation using a weighted average "FISIM rate" and inflation rate for developing and emerging countries</li> <li>- Insurance sector: Volume based on changes in the number of vehicles and number of life policies.</li> <li>- Financial leasing and other credit granting institutions: Price indicator in line with deflator of commercial banks</li> <li>- Other financial institutions: Deflation using changes in exchange rates and local inflation rate</li> </ul>
<b>L. Real Estate activities</b>			
Ownership of dwellings	<ul style="list-style-type: none"> <li>- Number of housing units (HU) from Housing Census</li> <li>- Interest on housing loans from the Bank of Mauritius.</li> </ul>	<ul style="list-style-type: none"> <li>- Value added is compiled annually according to the User Cost Method based on:               <ul style="list-style-type: none"> <li>- an operating surplus calculated on interest rate on housing loans,</li> <li>- taxes paid on dwellings and consumption of fixed capital (depreciation of the building).</li> </ul> </li> <li>The annual figure is then quarterlised.</li> </ul>	<ul style="list-style-type: none"> <li>- Estimate at constant price based on change in volume of residential building permits.</li> </ul>
Real estate activities	<ul style="list-style-type: none"> <li>- Number of building permits of non-residential buildings</li> <li>- Quarterly data from the VAT Department</li> </ul>	<p>This sector includes agencies involved in the sale of property and an imputed rent of owner occupied non-residential buildings</p>	<ul style="list-style-type: none"> <li>- Deflation by Consumer Price Index.</li> </ul>

Industry group	Data sources	Methods	Indicator - constant price estimates
<b>M. Professional, scientific and technical activities</b>			
Professional, scientific and technical activities	<ul style="list-style-type: none"> <li>- Quarterly data from the VAT Department</li> <li>- Trends in related sectors</li> <li>- Indirect indicators such as cases lodged in court.</li> </ul>	This sector covers the units which offer their services to different activities both onshore and offshore including own account professional workers such as lawyers, accountants, notaries , surveyors etc.	Deflation by Consumer Price Index.
<b>N. Administrative and support service activities</b>			
Administrative and support service activities	<ul style="list-style-type: none"> <li>- Quarterly data from the VAT Department</li> <li>- Trends in related sectors</li> <li>- Indirect indicators such as tourist arrivals</li> </ul>	This sector covers units engaged in rental and leasing activities, cleaning activities, travel agencies, call centers and other business support activities	Deflation by Consumer Price Index.
<b>O. Public Administration &amp; Defense; Compulsory Social Security</b>			
Public Administration and Defence, Compulsory Social Security	<ul style="list-style-type: none"> <li>- Expenditure of Budgetary Central Government from the Accountant General Department.</li> <li>- Expenditure for Rodrigues from Rodrigues Regional Assembly.</li> <li>- Expenditure for EBUs and Local Government is estimated.</li> </ul>	<ul style="list-style-type: none"> <li>- Estimates are made at cost, that is, Gross output = Value added (VA) + purchase of goods and services (IC)</li> </ul> <p>Value added = Compensation of employees + consumption of fixed capital</p>	<ul style="list-style-type: none"> <li>- Compensation of Employees is deflated using the annual wage rate index based on salary compensation.</li> <li>- Consumption of Fixed Capital is deflated using the quarterly Construction Price Index (for Construction items), Vehicle Price Index (for vehicles) and a combination of PPI and IPI (for machinery and equipment excluding vehicles).</li> <li>- Goods and services are deflated using quarterly Consumer Price Index.</li> </ul>

Industry group	Data sources	Methods	Indicator - constant price estimates
<b>P. Education services</b>			
Education Services	<ul style="list-style-type: none"> <li>- Expenditures related to education (preprimary, primary, secondary and tertiary sectors) incurred by the different levels of the General Government (mainly BCG and EBUs) are used to estimate value added, intermediate consumption and gross output of education in the public sector.</li> <li>- Annual data on enrolment from the Ministry of Education</li> <li>- Enrolment from private schools and Mauritius Institute of Training and Development (MITD)</li> <li>- Percentage change in fees charged for private tuition estimated from the sub-index for "Education" obtained from the CPI Unit</li> </ul>	<ul style="list-style-type: none"> <li>- Estimate are made at cost, that is,</li> <li>- Gross output = Value added (VA) + purchase of goods and services (IC)</li> <li>- Value added = Compensation of employees + consumption of fixed capital</li> <li>- Private schools and MITD: annual output is divided by 4.</li> <li>- Private tuition fees: output based on ten months only (February to November and quarterlised accordingly).</li> </ul>	<ul style="list-style-type: none"> <li>- Compensation of Employees is deflated using the annual wage rate index based on salary compensation.</li> <li>- Consumption of Fixed Capital is deflated using the quarterly Construction Price Index (for Construction items), Vehicle Price Index (for vehicles) and a combination of PPI and IPI (for machinery and equipment excluding vehicles).</li> <li>- Goods and services are deflated by using quarterly CPI.</li> <li>- Volume based on enrolment statistics.</li> <li>- Deflation by CPI component</li> </ul>
<b>Q. Human health and social work activities</b>			
Health and Social Work activities	<ul style="list-style-type: none"> <li>- Expenditure related to Health and Social Work incurred by the different levels of the General Government (mainly BCG and EBUs) are used to estimate value added, intermediate consumption and gross output of Health and Social Work in the public sector.</li> </ul>	<ul style="list-style-type: none"> <li>- Estimate are made at cost, that is,</li> <li>- Gross output = Value added (VA) + purchase of goods and services (IC)</li> <li>- Value added = Compensation of employees + consumption of fixed capital</li> </ul>	<ul style="list-style-type: none"> <li>- Compensation of Employees is deflated using the annual wage rate index based on salary compensation.</li> <li>- Consumption of Fixed Capital is deflated using the quarterly Construction Price Index (for Construction items), Vehicle Price Index (for vehicles) and a combination of PPI and IPI (for machinery and equipment excluding vehicles).</li> <li>- Goods and services are deflated using quarterly Consumer Price Index.</li> </ul>

Industry group	Data sources	Methods	Indicator - constant price estimates
	<ul style="list-style-type: none"> <li>- Annual production accounts of clinics.</li> <li>- Quarterly data on admissions in clinics and hospitals from the Ministry of Health.</li> <li>- No. of private medical practitioners from the Ministry of Health.</li> <li>- Fees charged from monthly consumer price surveys.</li> </ul>	Annual value added for private health services is computed using available production accounts of clinics and supplemented with indicators on private practitioners. The estimates are quarterlised using quarterly data on admissions to clinics and hospitals.	<ul style="list-style-type: none"> <li>- Deflation by CPI component.</li> </ul>
<b>R. Art, entertainment and recreation</b>			
Art, entertainment and recreation activities	<ul style="list-style-type: none"> <li>- Quarterly data from the VAT Department</li> <li>- Quarterly data on government revenue from gambling and betting taxes.</li> </ul>	Includes gambling, sports, amusement and recreational activities <ul style="list-style-type: none"> <li>- Quarterly gross output derived from VAT systems.</li> <li>- Value added estimated using technical coefficients obtained from latest available annual final production accounts.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation by Consumer Price Index</li> </ul>
<b>S. Other service activities</b>			
Other service activities	<ul style="list-style-type: none"> <li>- Quarterly turnover from the VAT department</li> <li>- Demographic statistics such as births, deaths and marriages.</li> <li>- Tourist arrivals</li> </ul>	<ul style="list-style-type: none"> <li>- Includes activities of membership organizations, units engaged in repair of computers and household goods and other personal service activities</li> <li>- Quarterly gross output derived from the VAT returns.</li> <li>- Value added estimated using technical coefficients obtained from latest available annual final production accounts.</li> <li>- For companies not registered at the VAT: annual estimates are quarterlised using indirect indicators such as quarterly number of births, deaths, marriages, and tourist arrivals.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation by Consumer Price Index.</li> </ul>
<b>T. Activities of households as employers, etc</b>			
Private households with employed persons	<ul style="list-style-type: none"> <li>- Number of employees based on number of household with domestic employees as collected in Household Budget Survey (HBS).</li> <li>- Wage Rate from monthly consumer price surveys.</li> </ul>	<ul style="list-style-type: none"> <li>- Annual estimate, based on the number of persons employed and average wage, is divided by 4.</li> </ul>	<ul style="list-style-type: none"> <li>- Deflation by wage increase due to salary compensation of every year.</li> </ul>

**Data sources, methods and indicators used for the estimation of quarterly GDP**  
**Expenditure approach**

<b>Item</b>	<b>Sources &amp; Methodology</b>	<b>Indicator – constant price estimates</b>
Final Consumption Expenditure - Household (HH)	Annual estimates are quarterlised using Continuous Multi-Purpose Household Survey (CMPHS) and HBS structure adjusted for conceptual difference with national accounts.	- Deflation by Consumer Price Index.
Final Consumption Expenditure – General Government	<p>Final Consumption Expenditure for the General Government is equal to the value of services produced plus value of goods and services purchased from private producers for free distribution to households plus output of the Central Bank.</p> <p>Quarterly data for Budgetary Central Government is available from the Accountant General Department.</p> <p>Quarterly data for Rodrigues is available from the RRA's finance department.</p> <p>Quarterly data for Extra Budgetary Units and Local Government are estimated.</p> <p>Quarterly data from the Central Bank</p>	<p>- Compensation of Employees is deflated using the annual wage rate index based on salary compensation.</p> <p>Consumption of Fixed Capital is deflated using the quarterly Construction Price Index (for Construction items), Vehicle Price Index (for vehicles) and a combination of PPI and IPI (for machinery and equipment excluding vehicles)</p> <p>Goods and services is deflated using quarterly Consumer Price Index.</p>

**Gross Fixed Capital Formation (GFCF)**

**Building and Construction**

Residential Building	Quarterly investment in residential buildings based on quarterly data on floor area from building permits (with a lag of 1 quarter) and quarterly Construction Price Index, together with quarterly data from National Housing Development Company (NHDC) and other sources, and an estimate for projects for which no permit has been issued. The cost per unit of floor area has been revised in 2009 based on the last revision in the Construction Price Index.	- Deflation by quarterly construction price index.
Non-Residential Building and Other Construction Work	Quarterly investment in non-residential buildings and other construction work based on quarterly building permits for non-residential buildings (lag by one quarter) and quarterly Construction Price Index, work in progress of large projects and quarterly data on Government capital expenditure available from the Accountant General Department and MOFED (PSIP).	

Item	Sources & Methodology	Indicator – constant price estimates
<b>Machinery and Equipment</b>		
Aircraft	Based on information provided by Air Mauritius Ltd and the Accountant General Department	Exchange rate of the currency in which asset is purchased.
Marine Vessel	Based on information provided by Mauritius Ports Authority (MPA)	
Transport Equipment	Based on information on registered vehicles provided by National Transport Authority (NTA) classified as final consumption expenditure or investment according to purchasers. For transport equipment for which no registration is necessary, imports statistics are used.	A vehicle price index based on seven types of vehicles.
Other Machinery and Equipment.	<p>Estimates are mostly based on quarterly Trade Statistics given that most of the machinery and equipment are imported. The imported machinery and equipment goods are brought to purchasers' prices by adding all duties and taxes, landing cost, transport cost and margins. Duties and taxes are available from Customs Department, landing cost from Mauritius Ports Authority while rates of transport and margin are based on the results of the 2013 CEA. Annual installation cost obtained through surveys is quarterlised according to the quarterly trend of concerned machinery.</p> <p>Local production of machinery is estimated from outputs of companies producing capital goods.</p>	A weighted deflator based on separate deflators for “locally produced goods” and “imported goods”. For the “locally produced goods” PPI components are used whilst for “imported goods” IPI components for “Machinery and equipment” excluding transport equipment are used to construct the deflators.
Exports and Imports of Goods and Services	<p>Data available from the Quarterly Balance of Payments (BOP) of the Bank of Mauritius (BOM) adjusted for import and export of FISIM. For import and export of goods, import and export price indices are used as deflators. For export of services, each component is deflated with concerned output deflators.</p> <p>For import of services, a combined index is compiled based on exchange rate and inflation of trading countries.</p>	- Deflation using respective quarterly price indices.
Allocation of FISIM by sector	The quarterly figure of FISIM calculated from data available on deposits, loans and prevailing rates is distributed by sector following recommendation in the System of National Accounts (SNA).	Deflated by an overall FISIM deflator.