

**Quarterly Export Price Index (EPI)**  
**1<sup>st</sup> Quarter 2002**  
**(Base: 1997=100)**

## **1. Introduction**

This issue of the Economic and Social Indicators presents quarterly Export Price Indices for the first quarter of 2002 and for the years 2000 and 2001.

The Export Price Index (EPI) provides an overall measure of pure price changes (in Mauritian rupees) of domestically produced goods exported to other countries. The base and reference period for the EPI is calendar year 1997. A technical note on the construction of the EPI is annexed.

Table 1 presents quarterly indices by Standard International Trade Classification (SITC Rev 3). Percentage changes for each quarter compared to the previous one are shown in table 2 and percentage changes over corresponding quarters, in table 3.

## **2. Structure of the EPI**

The EPI covers three sections of the SITC, namely "Food and live animals", "Manufactured goods classified chiefly by raw materials" and "Miscellaneous manufactured articles". Exports of goods falling under these sections covered 84% of total exports in base year 1997. Distribution of weights for the different sections, groups of commodities and items are given in table 1. In addition to the overall index, separate sub-indices are also given for different product categories.

## **3. Quarterly Changes (1st quarter 2002)**

The EPI went up by 2.5 points (or 2.2%) from 114.1 in the fourth quarter of 2001 to 116.6 in the first quarter of 2002. Export prices of goods falling under the section "Miscellaneous manufactured articles", which carries about 63% of the total weight, increased by 3.9%, while those of "Manufactured goods classified chiefly by material" decreased by 7.6%.

Compared to the corresponding quarter of 2001, the index for the first quarter of 2002 rose by 7.8%. Prices of "Food and live animals" went up by 9.4%, those of "Miscellaneous manufactured articles" by 7.7% and those of "Manufactured goods classified chiefly by material" by 1.6%.

### **3.1 Sub-indices by section and commodity**

#### **Food and live animals**

During the first quarter of 2002, the sub-index for "Food and live animals", which carries 32% of the total weight, showed a slight decrease(0.1%), following 1% decreases in both the prices of "Meat and meat preparations" and "Fish and fish preparations". These two groups, however, account for only 13% of the weight of this section.

When compared to the first quarter of 2001, the index for this section increased by 9.4%, mainly as a result of a 9.1% increase in the export price of sugar, which constitutes 86% of this section.

#### **Manufactured goods classified chiefly by materials**

Export prices of goods in this section, which consists mainly of textile fabrics, fell by 7.6% from 120.7 in the fourth quarter of 2001 to 111.5 in the first quarter of 2002. The export prices of "Cotton fabrics" went down by 9.4% and those of "Other textile fabrics" by 4.0%.

Compared to the first quarter of 2001, the index showed an increase of 1.6%, with prices of "Other textile fabrics" going up by 5.8% while those of "Cotton fabrics" went down by 0.5%.

#### **Miscellaneous manufactured articles**

This is the most important section of the index as it carries about 63% of the total weight. It consists exclusively of articles of wearing apparel from the Export Processing Zone (EPZ).

The index for this section increased by 3.9%, going up from 118.9 in the fourth quarter of 2001 to 123.6 in the first quarter of 2002. Export prices of "Articles of apparel and clothing accessories", accounting for 97% of this section, increased by 4.1% while those of "Optical goods, watches and clocks" went down by 1.5%.

With respect to the first quarter of 2001, the index showed an increase of 7.7%, due to a rise of 7.9% in prices of "Articles of apparel and clothing accessories", and another of 1.6% in the prices of "Optical goods, watches and clocks".

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**Table 1: Quarterly Export Price Index by SITC <sup>1</sup>, 2000-2002 (base:1997=100)**

SITC Section	Description	Weight	2000	2001					2002
			Yearly Average	1st Qr	2nd Qr	3rd Qr	4th Qr	Yearly Average	1st Qr <sup>2</sup>
<b>0</b>	<b>Food and live animals</b>	<b>3,234</b>	<b>97.8</b>	<b>94.7</b>	<b>95.2</b>	<b>103.4</b>	<b>103.7</b>	<b>99.2</b>	<b>103.6</b>
	Meat and meat preparations	82	95.6	97.1	101.9	105.0	108.2	103.0	107.1
	Fish and fish preparations	325	62.1	66.2	69.6	71.8	73.9	70.4	73.1
	Sugar	2,789	102.2	97.6	97.6	106.5	106.5	102.1	106.5
	Molasses	38	88.4	119.2	119.2	139.1	139.1	129.2	139.1
<b>6</b>	<b>Manufactured goods classified chiefly by material</b>	<b>426</b>	<b>94.8</b>	<b>109.7</b>	<b>113.4</b>	<b>117.6</b>	<b>120.7</b>	<b>115.3</b>	<b>111.5</b>
	Textile yarn, fabrics, made-up articles, n.e.s & related products	426	94.8	109.7	113.4	117.6	120.7	115.3	111.5
	<i>Cotton fabrics</i>	281	92.5	109.6	114.3	117.9	120.4	115.6	109.0
	<i>Other textile fabrics</i>	145	99.3	110.0	111.6	116.9	121.2	114.9	116.3
<b>8</b>	<b>Miscellaneous manufactured articles</b>	<b>6,340</b>	<b>109.6</b>	<b>114.7</b>	<b>113.2</b>	<b>115.9</b>	<b>118.9</b>	<b>115.7</b>	<b>123.6</b>
	Articles of apparel and clothing accessories	6,159	109.1	113.9	112.4	115.0	118.1	114.8	122.9
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or crocheted</i>	1,849	109.4	113.0	110.2	116.9	120.0	115.0	120.7
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or crocheted</i>	474	124.9	133.8	137.2	133.2	135.8	135.0	146.7
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	302	121.6	125.0	122.5	123.7	125.3	124.1	118.6
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	59	132.6	141.4	144.7	148.8	152.3	146.8	162.8
	<i>Articles of apparel of textile fabrics whether or not knitted or crocheted, n.e.s</i>	3,475	105.2	110.2	108.7	110.2	113.5	110.6	120.6
	Optical goods, n.e.s; watches & clocks	181	124.9	143.2	142.0	147.2	147.7	145.0	145.5
	<b>Overall</b>	<b>10,000</b>	<b>105.1</b>	<b>108.1</b>	<b>107.4</b>	<b>111.9</b>	<b>114.1</b>	<b>110.4</b>	<b>116.6</b>

<sup>1</sup> The Standard International Trade Classification Revision 3 (SITC Rev 3)

<sup>2</sup> Provisional

**Table 2: Percentage change from previous period by SITC<sup>1</sup>, 2000-2002 (base:1997=100)**

SITC Section	Description	Weight	2000	2001					2002
			Yearly average	1st Qr	2nd Qr	3rd Qr	4th Qr	Yearly average	1st Qr <sup>2</sup>
<b>0</b>	<b>Food and live animals</b>	<b>3,234</b>	<b>-5.9</b>	<b>0.4</b>	<b>0.5</b>	<b>8.6</b>	<b>0.3</b>	<b>1.5</b>	<b>-0.1</b>
	Meat and meat preparations	82	-9.9	0.0	4.9	3.0	3.0	7.8	-1.0
	Fish and fish preparations	325	-11.5	7.8	5.1	3.2	2.9	13.4	-1.0
	Sugar	2,789	-5.8	0.0	0.0	9.1	0.0	-0.1	0.0
	Molasses	38	46.8	-5.5	0.0	16.7	0.0	46.1	0.0
<b>6</b>	<b>Manufactured goods classified chiefly by material</b>	<b>426</b>	<b>-10.3</b>	<b>10.7</b>	<b>3.4</b>	<b>3.7</b>	<b>2.6</b>	<b>21.7</b>	<b>-7.6</b>
	Textile yarn, fabrics, made-up articles, n.e.s & related products	426	-10.3	10.7	3.4	3.7	2.6	21.7	-7.6
	<i>Cotton fabrics</i>	281	-8.8	10.3	4.3	3.1	2.1	24.9	-9.4
	<i>Other textile fabrics</i>	145	-12.7	11.8	1.5	4.7	3.7	15.8	-4.0
<b>8</b>	<b>Miscellaneous manufactured articles</b>	<b>6,340</b>	<b>-3.5</b>	<b>5.1</b>	<b>-1.3</b>	<b>2.4</b>	<b>2.6</b>	<b>5.6</b>	<b>3.9</b>
	Articles of apparel and clothing accessories	6,159	-3.4	4.9	-1.3	2.3	2.7	5.3	4.1
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or</i>	1,849	-6.1	6.7	-2.5	6.1	2.6	5.1	0.6
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or</i>	474	21.4	2.6	2.5	-2.9	1.9	8.1	8.0
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	302	1.7	2.0	-2.0	1.0	1.3	2.1	-5.4
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	59	6.3	2.3	2.3	2.8	2.3	10.7	6.9
	<i>Articles of apparel of textile fabrics whether or not knitted or crocheted</i>	3,475	-5.7	4.7	-1.4	1.4	2.9	5.2	6.3
	Optical goods, n.e.s	181	-8.1	11.6	-0.8	3.6	0.4	16.2	-1.5
	<b>Overall</b>	<b>10,000</b>	<b>-4.5</b>	<b>4.0</b>	<b>-0.6</b>	<b>4.2</b>	<b>1.9</b>	<b>5.0</b>	<b>2.2</b>

<sup>1</sup> The Standard International Trade Classification Revision 3 (SITC Rev 3)

<sup>2</sup> Provisional

**Table 3: Percentage change from corresponding period by SITC<sup>1</sup>, 2000-2002 (base:1997=100)**

SITC Section	Description	Weight	2000	2001					2002
			Yearly average	1st Qr	2nd Qr	3rd Qr	4th Qr	Yearly average	1st Qr <sup>2</sup>
<b>0</b>	<b>Food and live animals</b>	<b>3,234</b>	<b>-5.9</b>	<b>-7.2</b>	<b>-4.9</b>	<b>9.1</b>	<b>9.9</b>	<b>1.5</b>	<b>9.4</b>
	Meat and meat preparations	82	-9.9	-1.9	6.8	15.3	11.4	7.8	10.3
	Fish and fish preparations	325	-11.5	9.1	18.8	6.2	20.3	13.4	10.5
	Sugar	2,789	-5.8	-9.3	-7.8	9.1	9.1	-0.1	9.1
	Molasses	38	46.8	118.3	154.2	10.3	10.3	46.1	16.7
<b>6</b>	<b>Manufactured goods classified chiefly by material</b>	<b>426</b>	<b>-10.3</b>	<b>17.2</b>	<b>22.5</b>	<b>25.2</b>	<b>21.8</b>	<b>21.7</b>	<b>1.6</b>
	Textile yarn, fabrics, made-up articles, n.e.s & related products	426	-10.3	17.2	22.5	25.2	21.8	21.7	1.6
	<i>Cotton fabrics</i>	281	-8.8	23.0	28.3	27.6	21.1	24.9	-0.5
	<i>Other textile fabrics</i>	145	-12.7	7.4	12.2	20.8	23.2	15.8	5.8
<b>8</b>	<b>Miscellaneous manufactured articles</b>	<b>6,340</b>	<b>-3.5</b>	<b>2.0</b>	<b>4.0</b>	<b>7.3</b>	<b>9.0</b>	<b>5.6</b>	<b>7.7</b>
	Articles of apparel and clothing accessories	6,159	-3.4	1.8	3.8	7.0	8.7	5.3	7.9
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or crocheted</i>	1,849	-6.1	-1.1	0.4	8.5	13.3	5.1	6.8
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or crocheted</i>	474	21.4	10.2	11.7	6.6	4.1	8.1	9.6
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	302	1.7	0.9	1.4	3.9	2.3	2.1	-5.1
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	59	6.3	9.5	10.9	12.2	10.2	10.7	15.1
	<i>Articles of apparel of textile fabrics whether or not knitted or crocheted</i>	3,475	-5.7	2.1	4.5	6.5	7.7	5.2	9.4
	Optical goods, n.e.s	181	-8.1	22.3	12.1	15.6	15.1	16.2	1.6
	<b>Overall</b>	<b>10,000</b>	<b>-4.5</b>	<b>-0.1</b>	<b>2.0</b>	<b>8.5</b>	<b>9.8</b>	<b>5.0</b>	<b>7.8</b>

<sup>1</sup> The Standard International Trade Classification Revision 3 (SITC Rev 3)

<sup>2</sup> Provisional

**Table 4: Quarterly Export Price Index by SITC, Year 1997 (base:1997=100)**

SITC <sup>1</sup> Section	Description	Weight	1997				Yearly Average
			1st Qr	2nd Qr	3rd Qr	4th Qr	
<b>0</b>	<b>Food and live animals</b>	<b>3,234</b>	<b>100.6</b>	<b>100.5</b>	<b>98.9</b>	<b>100.1</b>	<b>100.0</b>
	Meat and meat preparations	82	94.4	97.8	100.5	107.2	100.0
	Fish and fish preparations	325	88.9	90.3	105.2	115.7	100.0
	Sugar	2,789	101.3	101.3	98.7	98.7	100.0
	Molasses	38	161.6	134.1	52.2	52.2	100.0
<b>6</b>	<b>Manufactured goods classified chiefly by material</b>	<b>426</b>	<b>97.1</b>	<b>98.4</b>	<b>100.9</b>	<b>103.7</b>	<b>100.0</b>
	Textile yarn, fabrics, made-up articles, n.e.s & related products	426	97.1	98.4	100.9	103.7	100.0
	<i>Cotton fabrics</i>	281	97.1	97.3	101.8	103.7	100.0
	<i>Other textile fabrics</i>	145	97.0	100.4	99.0	103.5	100.0
<b>8</b>	<b>Miscellaneous manufactured articles</b>	<b>6,340</b>	<b>98.3</b>	<b>97.4</b>	<b>100.6</b>	<b>103.8</b>	<b>100.0</b>
	Articles of apparel and clothing accessories	6,159	98.2	97.4	100.7	103.8	100.0
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or crocheted</i>	1,849	97.7	97.2	100.8	104.4	100.0
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, not knitted or crocheted</i>	474	95.8	93.1	104.3	106.9	100.0
	<i>Men's or boys' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	302	95.4	96.8	102.3	105.6	100.0
	<i>Women's or girls' coats, jackets, suits, blazers, trousers, shorts, shirts etc, knitted or crocheted</i>	59	100.5	95.9	101.0	102.5	100.0
	<i>Articles of apparel of textile fabrics whether or not knitted or crocheted</i>	3,475	99.0	98.1	100.0	102.9	100.0
	Optical goods, n.e.s, watches and clocks	181	101.1	97.3	98.0	103.5	100.0
	<b>Overall</b>	<b>10,000</b>	<b>99.0</b>	<b>98.4</b>	<b>100.1</b>	<b>102.6</b>	<b>100.0</b>

<sup>1</sup> The Standard International Trade Classification Revision 3 (SITC Rev 3)

## Technical Note

### Export Price Index (EPI)

#### Methodology for the Construction of the EPI

##### Definition

The Export Price Index (EPI) is a measure of price change of domestically produced Mauritian products shipped to other countries, i.e it excludes re-exports. In addition to the overall index, separate sub-indices are also calculated for different product categories at more detailed level.

The first series of EPI was calculated with the year 1993 as base and reference period. The index was subsequently revised with 1997 as base year and new weights calculated on exports during that year.

##### Comparison with Unit Value Index

The Unit Value Export Index provides only a proxy measure for price changes of exported goods. It is derived from value and quantity data of products or groups of products obtained from trade returns and is thus highly dependent on the degree of homogeneity of the groups of products considered. On the other hand, the EPI measures pure price changes and is based on actual price measurements of relatively more homogeneous group of products. It requires elaborate specifications of products and takes into account all the main price determining factors such as country of destination, quality, mode of transport and mode of payment.

##### Scope and Classification

The EPI covers all domestic exports, the most important commodities being sugar and textile fabrics and articles of apparel and clothing accessories produced by the EPZ sector.

The index is based on the Nomenclature of the Standard International Trade Classification of the United Nations (SITC Rev 3). Separate sub-indices are produced for each SITC section and for more detailed groups where possible.



### **Selection of Items and Firms**

A representative sample of 43 firms has been selected from trade declarations submitted to the Customs and Excise Department in 1997. The sample was drawn from exporting firms on the basis of regularity of their trade and their volume of exports. A total of 100 items (Entry Level Items, ELI's) which represent 35 product groups are priced from the selected enterprises.

### **Weighting Scheme**

The weights are derived from the 1997 domestic exports. Weights assigned to each section and group are based on their export values in 1997. Each product or group of products selected for pricing purposes represents all products that fall within that weight group.

### **Base and Reference Period**

The base price as well as the reference period for the EPI is calendar year 1997. Bench mark data for the year 1997, based on trade returns, have been used to derive weights. The selected firms have supplied prices of selected commodities for each of the 12 months in 1997. The yearly average price of each product has then been worked out and is used as base price for that product.

### **Price Collection**

Prices are collected directly from co-operating export firms. As far as possible price quotations are reported on a free on board (F.O.B.) basis and are mostly contract prices. Each reporting firm is visited once every quarter but prices are supplied on a monthly basis and are averaged for each quarter.

### **Sugar and Molasses**

Due to their specificity, sugar and molasses have been treated differently. Sugar and molasses produced during a crop year, which normally extends between July and June of the following year, are usually exported during that same crop year. Export prices of these commodities, sugar in particular, are mostly negotiated prices. These prices can be quite volatile between quarters depending on the destination of the shipments. Therefore, in order to eliminate these price distortions between quarters, the same average yearly price for the crop year is used for the four quarters comprising that crop year. The base price of these commodities for the year 1997 is the average price for crops years 1996/97 and 1997/98.

### **Calculation of the EPI**

A modified Laspeyres formula based on the weighted average of price relatives is used to calculate the EPI: the mathematical form of the formula is shown below:

$$I_{ot} = \frac{\sum w_i \times \frac{P_{it}}{P_{io}} \times 100}{\sum w_i}$$

Where  $I_{ot}$  is the index for period t compared to base period 0

$w_i$  is the weight of the  $i^{\text{th}}$  element

$P_{io}$  is the base price of the  $i^{\text{th}}$  element

$P_{it}$  is the price of the  $i^{\text{th}}$  element in period t

$\frac{P_{it}}{P_{io}}$  is the price relative of the  $i^{\text{th}}$  element  
in period t relative to base period 0

$\Sigma$  means summation over all selected elements

### **Uses**

The primary use of the EPI is to deflate export trade statistics. It provides quarterly measures of price trends of Mauritian products sold abroad and can be used for calculating changes in the volume of exports.

It can also serve as a basis to assess the competitiveness of Mauritian products in relation to price trends of common products of other countries with which Mauritius competes for markets.