



NATIONAL INSTITUTE OF  
STATISTICS OF RWANDA



NATIONAL BANK OF RWANDA

**PRODUCER PRICE INDEX FOR  
MANUFACTURING SECTOR (PPI-M)  
FIRST QUARTER 2014**

**Background**

This is the thirty seven publication of monthly Producer Price Index for the Manufacturing sector (PPI-M). Work on the development of the methodology for the construction of the PPI-M started in March 2003 with technical assistance from the IMF East AFRITAC and financial assistance from the UK DFID. The PPI project is a joint project between the National Institute of Statistics of Rwanda (NISR) and the National Bank of Rwanda (NBR).

Table 1: Monthly Producer Price Indices by activity group: **First Quarter 2014**  
**Goods for local sales** (Base Period: Fourth Quarter 2003 = 100)

Activity group	Weight	2013			2014			2013	2014
		Jan.	Feb.	Mar.	Jan.	Feb.	Mar.	1 <sup>st</sup> qrt	1 <sup>st</sup> qrt
<b>PPI for Mainly Local Sold products</b>	<b>1000</b>	<b>181.28</b>	<b>180.96</b>	<b>181.26</b>	<b>183.20</b>	<b>182.54</b>	<b>182.86</b>	<b>181.16</b>	<b>182.87</b>
% change, previous month/quarter <sup>(7)</sup>		<b>1.13</b>	<b>-0.18</b>	<b>0.17</b>	<b>-0.08</b>	<b>-0.36</b>	<b>0.18</b>	<b>1.07</b>	<b>-0.22</b>
% change, 12 months		<b>4.18</b>	<b>2.24</b>	<b>2.41</b>	<b>1.06</b>	<b>0.87</b>	<b>0.88</b>	<b>2.93</b>	<b>0.94</b>
Food Products, Beverages and Tobacco	456	185.41	184.71	185.30	189.66	188.96	188.96	185.14	189.19
% change, previous month/quarter <sup>(7)</sup>		<b>0.36</b>	<b>-0.38</b>	<b>0.32</b>	<b>0.06</b>	<b>-0.37</b>	<b>0.00</b>	<b>0.21</b>	<b>-0.10</b>
% change, 12 months		<b>3.67</b>	<b>-0.36</b>	<b>-0.05</b>	<b>2.29</b>	<b>2.30</b>	<b>1.98</b>	<b>5.19</b>	<b>2.19</b>
Food Products	129	192.89	190.44	192.49	192.89	190.44	190.44	191.94	191.25
% change, previous month/quarter <sup>(7)</sup>		<b>1.24</b>	<b>-1.27</b>	<b>1.08</b>	<b>0.21</b>	<b>-1.27</b>	<b>0.00</b>	<b>0.75</b>	<b>-0.36</b>
% change, 12 months		<b>1.27</b>	<b>-0.02</b>	<b>1.06</b>	<b>0.00</b>	<b>0.00</b>	<b>-1.07</b>	<b>0.77</b>	<b>-0.36</b>
Production, processing and preserving of meat and meat products	3	221.17	221.17	221.17	221.17	221.17	221.17	221.17	221.17
Processing and preserving of fruits and vegetables	8	219.83	219.83	219.83	219.83	219.83	219.83	219.83	219.83
Manufacture of dairy products	32	199.77	200.44	200.44	200.44	200.44	200.44	200.22	200.44
Manufacture of grain mill and animal feeds products	27	177.12	177.12	177.12	178.23	178.23	178.23	177.12	178.23
Manufacture of bakery products, pastry, biscuits	13	205.10	205.10	205.10	206.07	206.07	206.07	205.10	206.07
Manufacture of sugar	45	191.54	184.05	189.93	161.24	148.87	150.40	188.51	153.50
Beverages and Tobacco	327	182.45	182.45	182.45	188.38	188.38	188.38	182.45	188.38
% change, previous month/quarter <sup>(7)</sup>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-0.02</b>	<b>0.00</b>
% change, 12 months		<b>4.71</b>	<b>-0.51</b>	<b>-0.51</b>	<b>3.25</b>	<b>3.25</b>	<b>3.25</b>	<b>1.17</b>	<b>3.25</b>
Manufacture of beer, soft drinks and tobacco	327	182.45	182.45	182.45	188.38	188.38	188.38	182.45	188.38
Other than Food, Beverages and Tobacco	544	177.81	177.81	177.87	177.78	177.15	177.75	177.83	177.56
% change, previous month/quarter <sup>(7)</sup>		<b>1.81</b>	<b>0.00</b>	<b>0.04</b>	<b>-0.21</b>	<b>-0.35</b>	<b>0.34</b>	<b>1.83</b>	<b>-0.33</b>
% change, 12 months		<b>4.63</b>	<b>4.61</b>	<b>4.65</b>	<b>-0.02</b>	<b>-0.37</b>	<b>-0.07</b>	<b>4.63</b>	<b>-0.15</b>
Manufacture of textiles, wearing apparel, tanning and dressing of leather	47	182.58	182.58	182.58	182.58	182.58	182.58	182.58	182.58
Manufacture of paper and paper products, publishing of books, newspapers	40	147.13	147.13	147.13	147.13	147.13	147.13	147.13	147.13
Manufacture of chemical products	172	170.99	170.99	171.19	167.68	167.68	167.68	171.05	167.68
Manufacture of plastic products, tubes, retreading and rebuilding of rubber tyres	45	158.51	158.51	158.51	158.51	158.51	158.51	158.51	158.51
Manufacture of ceramic products, cement, lime and articles of concrete	126	210.31	210.31	210.31	210.38	210.38	210.38	210.31	210.38
Manufacture of fabricated metal products	70	175.55	175.55	175.55	172.27	167.41	172.05	175.55	170.57
Manufacture of furniture	43	157.98	157.98	157.98	175.81	175.81	175.81	157.98	175.81

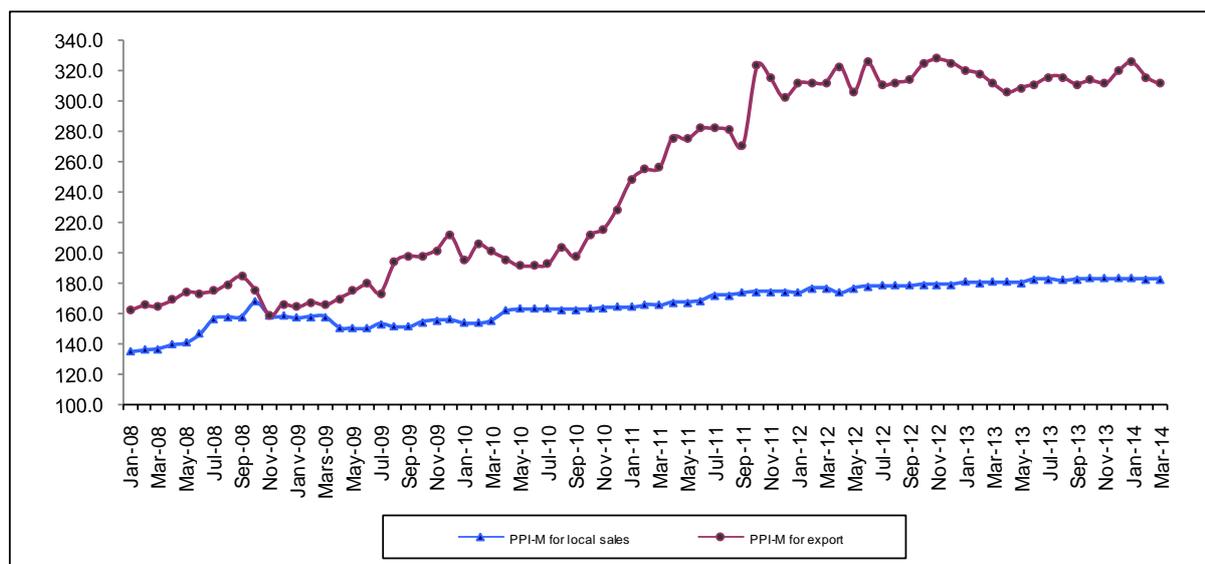
Source: Quarterly Producer Price Index Surveys

Table 2: Monthly Producer Price Indices by activity group: **First Quarter 2014**  
**Goods for export** (Base Period: Fourth Quarter 2003 = 100)

Activity Group	Weight	2013			2014			2013	2014
		Jan.	Feb.	Mar.	Jan.	Feb.	Mar.	1 <sup>st</sup> qrt	1 <sup>st</sup> qrt
<b>PPI for Mainly Export Products</b>	<b>1000</b>	<b>320.03</b>	<b>317.54</b>	<b>311.53</b>	<b>325.11</b>	<b>315.43</b>	<b>311.42</b>	<b>316.37</b>	<b>317.32</b>
% change, previous month/quarter(*)		-1.54	-0.78	-1.89	1.79	-2.98	-1.27	-2.84	0.80
% change, 12 months		2.80	1.84	-0.17	1.59	-0.66	-0.04	1.49	0.30
Manufacture of other food products n.e.c	978	319.94	317.38	311.21	322.11	312.40	307.84	316.18	314.12
% change, previous month/quarter(*)		-0.26	-0.80	-1.94	2.23	-3.01	-1.46	-1.57	1.24
% change, 12 months		4.23	3.22	1.13	0.68	-1.57	-1.08	2.86	-0.65
Production of tea	585	208.4	204.2	193.8	198.7	182.3	174.5	202.15	185.18
% change, previous month/quarter(*)		-0.67	-2.05	-5.05	5.40	-8.25	-4.27	-2.54	2.58
% change, 12 months		22.21	19.10	12.80	-4.67	-10.70	-9.97	18.02	-8.40
Production of coffee	392	486.2	486.2	486.2	506.2	506.4	506.7	486.23	506.42
% change, previous month/quarter(*)		0.00	0.00	0.00	0.47	0.05	0.05	-0.96	0.52
% change, 12 months		-4.73	-4.73	-4.73	4.10	4.15	4.21	-4.73	4.15
Manufacture of pesticides and other agro-chemical products	22	323.86	324.87	325.76	457.10	448.97	468.93	324.83	458.34
% change, previous month/quarter(*)		-36.83	0.31	0.27	-10.36	-1.78	4.44	-37.37	-10.67
% change, 12 months		-35.70	-35.50	-35.32	41.14	38.20	43.95	-35.51	41.10
Production of pyrethrum	22	323.86	324.87	325.76	457.1	449.0	468.9	324.83	458.34

Source: Quarterly Producer Price Index Surveys

Graph1: PPI for local sales and export products  
 (Fourth quarter 2003=100)



Source: Quarterly Producer Price Index Surveys

## **I. Monthly PPI-M (Base period: 4<sup>st</sup> Quarter 2003 =100)**

### ***1.1 PPI-M: Local sales (table 1)***

In March 2014, the index for products manufactured for sale on the local market stood at 182.86, which reflects an increase of 0.18 percent compared to the index of the previous month which was 182.54.

On annual basis, the index for March 2014 was 0.88 percent higher. This increase is mainly attributable to price increases of 1.98 percent in food, beverages and tobacco products.

The annual index of food, beverages and tobacco increased by 1.98 percent in March 2014; this increase is mostly attributable to the effect of price changes by 3.25 percent in beverages and tobacco.

### ***1.2 PPI-M Exports (table 2)***

As shown in the table 2, the index for goods mainly produced for exports stood at 325.11 in January, 315.43 in February and 311.42 in March 2014. Prices fetched for tea exports registered a monthly increase of 5.40 in January, and a decrease of 8.25 and 4.27 percent in February and March respectively.

On an annual basis, the index of export products registered a decrease of 0.04 percent in March 2014 compared to the index of the same month of the previous year.

## **II. Quarterly PPI-M (Base period: 4<sup>th</sup> Quarter 2003 =100)**

### ***2.1 PPI-M Local sales***

The index for the first quarter 2014 registered a decrease of 0.22 percent compared to the index of the previous quarter (fourth quarter 2013) and an increase of 0.94 percent compared to the index of the first quarter of the year 2013.

### ***2.2 PPI-M Exports***

The quarterly index for manufacturing exports registered an increase of 0.80 percent in the first quarter of the year 2014 compared to the index of the previous quarter (fourth quarter 2013) and a increase of 0.30 percent compared to the index of the same quarter of the previous year.

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# Technical Note on PPI-M

**1. Scope and composition:** For the purpose of these indices, manufacturing encompass all products produced for sale on the domestic market as well as for the exports that is divisions 15 to 36. The PPI-M will initially cover manufacturing establishments that operate with 10 or more workers.

**2. Items and weights:** These indices are fixed weight indices. The weights were obtained from the gross output value reported by manufacturers at the 2000 Census of Industrial Production conducted in 2001. Gross output is valued at basic prices, and thus excludes all taxes on products, namely excise duties and Value added tax. Each selected product is assigned a weight representing its share in the total turnover for the fourth quarter of 2003 as reported by the establishments.

**3. Price information:** The point of pricing is the establishment. The price is the selling price received by the producer for the selected product as it leaves the factory gate. In general prices are collected at *mid – point of each month*.

**4. Reference base period for PPI\_M:** The reference period for the calculation of PPI-M is the fourth quarter 2003. The base price for a particular product is an arithmetic mean of the fourth quarter monthly prices in 2003.

**5. Index formula:** The PPI is calculated according to the Laspeyres formula, which is the weighted average of price relatives.

$$I_c = \sum \frac{w_i * (P_{ci} / P_{oi})}{\sum w_i} * 100$$

Where  $I_c$  = Index for current month

$W_i$  = Weight associated with product i

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

$P_{oi}$  = Price for product i for the reference period

## 6. Uses of the PPI

The main uses of the PPI are:

- As a leading indicator of inflationary trends.
- As deflators for national accounting at constant prices.
- As “escalators” to adjust prices of inputs in long term sales contracts.

**7. Dissemination of PPI-M:** The monthly PPI-M will be published in each quarter, about 8 weeks following the quarter under review.

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