Producer Price Index (PPI) - Manufacturing Second Quarter 2005

1. Background

This is the second issue of monthly Producer Price Index for the Manufacturing sector (PPI-M) covering the period October 2003 to June 2005. Work on the development of the methodology for the construction of the PPI-M started in March 2003 with technical assistance from the IMF EastAFRITAC and financial assistance, from the UK DFID. The PPI project is a joint project between the Department of Statistics (DS) of the Ministry of Finance and Economic Planning and the National Bank of Rwanda (NBR). In addition, Rwanda joined the IMF General Data Dissemination System (GDDS) in October 2003, and the development of monthly PPI for Manufacturing was included among the list of priorities and as a core economic indicator.

2. PPI- Manufacturing (PPI-M)

2.1 Definition

The PPI-M is designed to measure the monthly change in the effective selling prices received by manufacturers for their products as they leave the factory gate. *Price information is at basic prices, that is, they do not include taxes on products (e.g. VAT and excise duties) and include any subsidy.* The PPI-M will therefore reflect the price trends of a constant basket of well-specified products representing the output of the manufacturing establishments. The PPI-M will initially cover manufacturing establishments employing 10 or more workers.

The monthly PPI-M will be published in each quarter, about 8 weeks following the last data collection quarter. More details on the compilation methodology are provided in the Technical Note at Annex.

2.2 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.

Table 1a: Monthly Producer Price Indices by activity group: Second Quarter 2005 Goods Produced mainly for local sales

(Base Period: Fourth Quarter 2003 = 100)

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ISIC(Rev 3)	Activity group	Weight					% change over Previous 12			
			June.04	April.05	May.05	June.05	month	months		
1511 - 3610	PPI for Mainly Local Sold products	1000	106.4	118.1	117.9	117.3	-0.5	10.2		
1511-1600	Food Products, Beverages and Tobacco	456	107.1	114.0	113.6	113.2	-0.3	5.7		
1511-1542	Food Products	129	112.9	137.1	135.8	133.1	-2.0	17.8		
1511	Production, processing and preserving of meat and meat products	3	102.6	113.9	113.9	113.9	0.0	11.0		
1513	Processing and preserving of fruits and vegetables	8	107.3	120.9	120.9	120.9	0.0	12.7		
1520	Manufacture of dairy products	32	106.9	115.8	115.8	115.8	0.0	8.3		
1531-1533	Manufacture of grain mill and animal feeds products	27	104.1	115.4	115.5	114.6	-0.7	10.1		
1541	Manufacture of bakery products, pastry, biscuits	13	117.0	128.3	128.3	128.3	0.0	9.7		
1542	Manufacture of sugar	45	123.0	172.3	168.5	161.3	-4.3	31.1		
1552-1600	Beverages and Tobacco	327	104.8	104.8	104.8	105.3	0.5	0.5		
1552-1600	Manufacture of beer, soft drinks and tobacco	327	104.8	104.8	104.8	105.3	0.5	0.5		
1711-3610	Other than Food, Beverages and Tobacco	544	105.8	121.5	121.6	120.7	-0.8	14.0		
1711-1920	Manufacture of textiles, wearing apparel, tanning and dressing of leather	47	111.3	122.3	122.5	122.5	0.0	10.0		
2029-2221	Manufacture of paper and paper products, publishing of books, newspapers	40	108.3	119.5	119.8	119.4	-0.3	10.2		
2422-2429	Manufacture of chemical products	172	106.6	118.4	118.5	116.4	-1.8	9.2		
2511-2520	Manufacture of plastic products, tubes,retreading and rebuilding of rubber tyres	45	101.3	127.9	126.5	123.8	-2.1	22.3		
2693-2695	Manufacture of ceramic products, cement, lime and articles of concrete	126	100.6	117.9	118.5	118.5	0.0	17.9		
2811-2899	Manufacture of fabricated metal products	70	114.0	136.7	136.7	136.9	0.1	20.0		
3610	Manufacture of furniture	43	101.3	114.1	114.1	114.1	0.0	12.6		

Source: Quarterly Producer Price Survey

Table 1b: Monthly Producer Price Indices by activity group: Second Quarter 2005
Goods produced mainly for export

(Base Period : Fourth Quarter 2003 = 100)

ISIC(Rev 3)	Activity group	Weight					% change over	
			June.04	April.05	May.05	June.05	Previous month	12 months
1549 and 2421	PPI for Mainly Export Products	1000	115.1	137.9	143.2	147.3	2.8	27.9
1549	Manufacture of other food products n.e.c	978	115.4	138.8	144.2	148.4	2.9	28.6
	Production of tea Production of coffee	585 392	102.8 134.1	96.6 201.8	95.9 216.4	100.0 220.6	4.3 1.9	-2.8 64.5
	Manufacture of pesticides and other agro-chemical products	22	101.5	99.1	99.1	99.1	0.0	-2.4
2421	Production of pyrethrum	22	101.5	99.1	99.1	99.1	0.0	-2.4

Source: Quarterly Producer Price Survey

3. PPI-M (Base year: 4th Quarter 2003 =100)

3.1 PPI-M: Local sales

At the end of June 2005, the Producer Price Index for products manufactured for sale on the local market stood at 117.3, following an increase of (+1.0%) in April and a decrease of (-0.1%) and (-0.5%) in May and June respectively.

However, compared to June 2004 (106.4), the index for June 2005 was 10.2 % higher.

The 10.2% increase between June 2004 to June 2005, is mainly attributable to price increases in the following subgroups: «Food products, Beverages and Tobacco» increased by 5.7%, with the index moving from 107.1 to 113.2. Within this sub-group, prices for «Beverages and Tobacco», registered a slight increase of +0.5%, while that for «Food products» rose by 17.8%. The increase in the producer prices for food products is as follows: Sugar (+31.1%), Processing and preserving of fruits (+12.7%), Meat processing and preservation (+11,0), Grain milling and animal feeds (+10.1%), and Manufacture of bakery products (9.7%). Generally, the main reasons for the increase as reported by the respondents are: (i) power shortage and increase in the cost of energy, (ii) increase of purchase price of imported raw materials and (iii) Competitiveness.

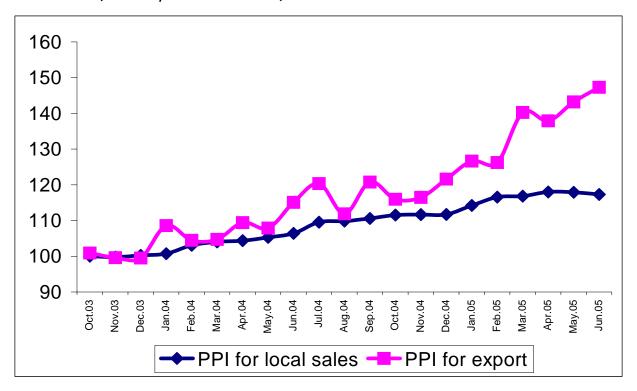
The index for the sub group « Other than Food, Beverages and Tobacco » increased by 14.0 % from 105.8 in June 2004 to 120.7 in June 2005. This rise was mostly due to the overall effect of price changes in the following groups: "Manufacture of rubber and plastic

products" (+22.3%), "Manufacture of Metal products" (+ 20.0 %), following rise in the price of iron and steel in the international market due to high demand from New Industrialized Countries of Asia, "Manufacture of ceramic products, cement, lime and articles of concrete (+17.9%), as a result of ongoing private construction and public works programs which led to high demand that exceeded supply, "Manufacture of furniture" (+12.6) and "Manufacture of paper and paper products, publishing of books and news papers" (+10.2%). Higher selling prices therefore reflected the increase in the production cost, in particular, higher prices of raw materials and energy.

3.2 PPI-M Exports

As shown in Table 1b, the PPI-M for goods mainly produced for exports stood at 137.9 in April, 143.2 in May and 147.3 in June 2005. Prices fetched for coffee exports registered increases of 3.9%, 7.2% and 2.0% in April, May and June respectively. On the other hand, export price of tea registered a decrease of 8.5% in April and 0.7% in May, due to fall of tea prices on international market. In June, tea prices recovered and the PPI recorded an increase of 4.3%. Compared to June 2004 (115.1), the index for June 2005 (147.3) was 27.9 % higher. This increase was mainly attributable to higher prices (64.5%) fetched for coffee exports.

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



4. Analysis of trends- Quarterly Change

4.1 PPI-M Local sales

The quarterly PPI-M is obtained as an arithmetic average of the monthly PPI. When comparing current quarter with the previous quarter the index moved up slightly by (+1.2%). The index for local sales stood at 105.4 in the second quarter 2004 and at 117.3 in the second quarter of 2005 which shows a year-on-year increase of 11.3%.

4.2 PPI-M Exports

Comparing current quarter with the previous quarter the index moved up by (+9.0%). The quarterly index for manufacturing exports rose from 110.8 in the second quarter of 2004 to 142.8 in the second quarter of 2005, thus compared to prices 12 months ago, prices in the second quarter 2005 were therefore 28.9% higher. This increase is a result of price rise for coffee by +25.6%.

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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.

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

WhereIc = Index for current month

W_i = Weight associated with product I

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

Poi = Price for product i for the reference period

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