



REPUBLIC OF RWANDA



PRODUCER PRICE INDEX (PPI)

FIRST QUARTER 2018

MAY 2018

National Institute of Statistics of Rwanda

1. SUMMARY

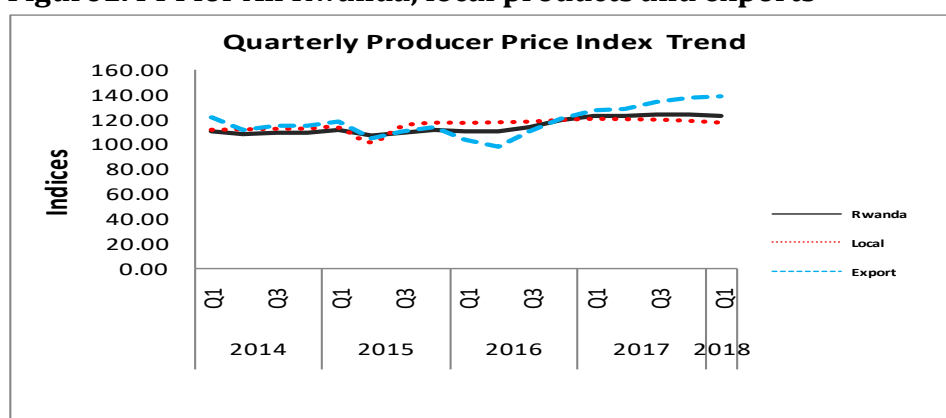
- The annual change in PPI for all Rwanda, first quarter 2018, is 0.27 percent
- The annual change in PPI for local products, first quarter 2018, is -2.43 percent
- The annual change in PPI for exports, first quarter 2018, is 8.45 percent
- The quarterly change in PPI for all Rwanda, first quarter 2018, is -0.58 percent
- The quarterly change in PPI for local products, first quarter 2018, is -1.17 percent
- The quarterly change in PPI for exports, first quarter 2018, is 1.00 percent

Table1. PPI quarterly and annual changes for All Rwanda, local products and exports (in percentages)

	Quarterly change (Q1.18-Q4.17)	Annual change (Q1.18-Q1.17)
PPI for All Rwanda	-0.58	0.27
PPI for local products	-1.17	-2.43
PPI for export products	1.00	8.45

Source: NISR

Figure1. PPI for All Rwanda, local products and exports



Source: NISR

2. INTRODUCTION

The Producer Price Index (PPI) measures the average change over time in prices received by domestic producers for the production of their goods and services.

The Producer Price Index for Rwanda is published on a quarterly basis; but it highlights monthly Producer Price Index for each of the three months of the quarter under review, the quarterly Producer Price Index and the annual Producer Price Index.

It presents price changes for all combined products, products for local sales and that for exports. It covers a sample of 114 establishments and 402 products spread countrywide, both in Kigali City and in rural areas.

The Producer Price Index survey is conducted jointly with the National Bank of Rwanda. It now covers mining, manufacturing and energy; but NISR intends to include hotels and communication services in the future.

3. PPI FOR ALL RWANDA

The table below presents the percentage changes on monthly, quarterly and annual basis.

Table2. Monthly, quarterly and annual changes for PPI for All Rwanda

	2018			
	January	February	March	Q1
Monthly change	0.08	0.20	-0.20	
Quartely change				-0.58
Annual change	0.64	-0.09	0.27	0.27

Source: NISR

As the table 2 shows, on a monthly basis, the index increased by 0.08, 0.20 respectively in January, February, and decreased by 0.20 in March 2018.

On a quarterly basis, the index for the first quarter 2018 decreased by 0.58 percent.

On an annual basis, the index for the first quarter 2018 increased by 0.27 percent.

Main contributors to change

On a monthly basis,

In January 2018 (0.08%):

- Mining and quarrying contributed positively by 0.47 percentage points.
- Manufacturing contributed negatively by 0.39 percentage points.

In February 2018 (0.20%):

- Mining and quarrying contributed positively by 4.15 percentage points
- Manufacturing contributed negatively by 3.96 percentage points.

In March 2018 (-0.20%)

- Manufacturing contributed negatively by 0.22 percentage points.
- Mining and quarrying contributed positively by 0.02 percentage points.

On a quarterly basis, the main contributors to the index change of the first quarter 2018 (-0.58%) are:

- Manufacturing contributed negatively by 2.02 percentage points.
- Mining and quarrying contributed positively by 1.44 percentage points.

On an annual basis, the main contributors to the index change of the first quarter 2018 (0.27%) are:

- Mining and quarrying contributed positively by 1.91 percentage points.
- Manufacturing contributed negatively by 1.63 percentage points

4. PPI FOR GOODS PRODUCED FOR LOCAL SALES

The table below presents the percentage changes on monthly, quarterly and annual basis.

Table3. Monthly, quarterly and annual changes for PPI for local sales

	2018			Q1
	January	February	March	
Monthly change	-0.33	-0.20	-0.46	
Quartely change				-1.17
Annual change	-1.05	-2.58	-3.63	-2.43

Source: NISR

As the table 3 shows, on a monthly basis, the index decreased by 0.33, 0.20, and 0.46 in January, February and March 2018 respectively.

On a quarterly basis, the index for the first quarter 2018 decreased by 1.17 percent.

On an annual basis, the index for the first quarter 2018 decreased by 2.43 percent.

Main contributors to change

On a monthly basis, the main contributors to the index change are:

In January 2018 (-0.33%):

- Manufacturing contributed negatively by 0.33 percentage point.

In February 2018(-0.20%):

- Manufacturing contributed negatively to 0.20 percentage point.

In March 2018 (-0.46%):

- Manufacturing contributed negatively to 0.46 percentage point.

On a quarterly basis, the main contributor to the index change (-1.17%) is:

- Manufacturing which contributed negatively by 1.17 percentage points.

On an annual basis, the main contributor to the index change (-2.43%) is:

- Manufacturing contributed negatively by 2.43 percentage points

5. PPI FOR EXPORTS

The table below presents the index and the percentage changes on monthly, quarterly and annual basis.

Table4. Monthly, quarterly and annual changes for PPI for exports

	2018			Q1
	January	February	March	
Monthly change	1.36	0.93	0.43	
Quartely change				1.00
Annual change	5.97	7.50	12.01	8.45

Source: NISR

The table 4 shows that on a monthly basis the index increased by 1.36 and 0.93, and 0.43 in January, February and March respectively.

On a quarterly basis, the index for the first quarter 2018 increased by 1.00 percent.

On an annual basis, the index for the first quarter 2018 increased by 8.45 percent.

Main contributors to change

On a monthly basis,

In January 2018 (1.36%):

- Non-ferrous metal ores contributed positively by 2.02 percentage points.
- Tea products contributed negatively by 0.74 percentage points.

In February 2018 (0.93%):

- Non-ferrous metal ores contributed positively by 2.96 percentage points
- Tea products contributed positively by 0.65 percentage points.
- Coffee products contributed negatively by 2.75 percentage points.

In March 2018 (0.43%):

- Coffee products contributed positively by 0.83 percentage points.
- Non-ferrous metal ores contributed negatively by 0.24 percentage points
- Tea products contributed negatively by 0.23 percentage points.

On a quarterly basis, the main contributors to the index change of the first quarter 2018 (1.00%) are:

- Non-ferrous metal ores contributed positively by 2.31 percentage points.
- Tea products contributed negatively by 0.76 percentage points.
- Coffee products contributed negatively by 0.66 percentage points.

On an annual basis, the main contributors to the index change of first quarter 2018 (8.45%) are:

- Non-ferrous metal ores contributed positively by 6.46 percentage points.
- Tea products contributed positively by 2.40 percentage points

6. TECHNICAL NOTE ON PPI

The Producer Price Index (PPI) measures the average change over time in the prices received by domestic producers of goods and services—goods and services which are output of production or enter in the production process.

NISR publishes PPI data for Mining, Manufacturing and Energy, and it will continue to be published quarterly, about 8 weeks following the quarter under review.

Over time the PPI will gradually be expanded to include other production sectors such as transportation, telecommunications, agriculture, and services. Expansion of PPI coverage depends upon the availability of data that could be used to derive weights.

The establishments are classified according to ISIC rev. 4; and the classification is determined by their main output.

The weights used in the PPI for Rwanda refer to the value of output (turnover without taxes) of establishments as reported in the 2011 Manpower survey collecting data for the year 2010, which constitutes the reference base period for the PPI calculation (March 2010).

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 each quarter from the selected establishment by considering the mid-point of each month of the quarter under review.

The formula used in the PPI calculation is the geometric modified Laspeyres.

LVL	Annex 1: PPI, All Rwanda			Weights	Index (December 2010=100)					Monthly Contribution			Quarterly Contribution	Annual Contribution	
					Dec-17	Jan-18	Feb-18	Mar-18	Q1 2017	Q4 2017	Q1 2018	Jan-18	Feb-18	Mar-18	Q1 2018
1	R	Rwanda	1000	123.06	123.16	123.40	123.15	122.90	123.96	123.24	0.08	0.20	-0.20	-0.58	0.27
2	R	RB Mining and quarrying	96	120.04	135.00	141.38	141.84	120.77	122.34	139.41	0.47	4.15	0.02	1.44	1.91
4	RB	RB07 Mining of metal ores	96	120.04	135.00	141.38	141.84	120.77	122.34	139.41	0.47	4.15	0.02	1.44	1.91
2	R	RC Manufacturing	714	126.58	124.84	124.08	123.55	126.40	127.51	124.15	-0.39	-3.96	-0.22	-2.02	-1.63
4	RC	RC10 Manufacture of food products	376	130.85	127.14	125.22	124.30	132.01	132.52	125.55	-0.43	-6.41	-0.21	-2.37	-3.95
4	RC	RC11 Manufacture of beverages	174	127.45	127.45	127.45	127.45	125.14	127.45	127.45	0.00	0.00	0.00	0.00	0.69
4	RC	RC18 Printing and reproduction of recorded media	19	112.07	112.47	112.47	112.47	116.98	112.07	112.47	0.00	0.00	0.00	0.01	-0.16
4	RC	RC20 Manufacture of chemicals and chemical products	29	119.74	123.19	124.81	124.27	116.14	118.25	124.09	0.03	0.42	-0.01	0.17	0.42
4	RC	RC22 Manufacture of rubber and plastics products	11	171.72	173.04	173.04	173.04	177.48	172.16	173.04	0.00	0.00	0.00	0.01	-0.06
4	RC	RC23 Manufacture of other non-metallic mineral products	31	110.00	110.00	110.00	110.00	110.00	110.00	110.00	0.00	0.00	0.00	0.00	0.00
4	RC	RC25 Manufacture of fabricated metal products, except machinery and equipment	29	115.13	115.13	122.21	122.21	108.99	115.13	119.85	0.00	2.02	0.00	0.14	0.63
2	R	RD Electricity, gas, steam and air conditioning supply	58	119.74	119.74	119.74	119.74	119.74	119.74	119.74	0.00	0.00	0.00	0.00	0.00
2	R	RE Water supply; sewerage, waste management and remediation activities	129	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
2	R	RJ Information and communication	3	191.87	191.87	191.87	191.87	191.87	191.87	191.87	0.00	0.00	0.00	0.00	0.00

Source: NISR

LVL Annex 2: PPI, Local products			Weights	Index (December 2010=100)							Monthly Contribution			Quarterly Contribution	Annual Contribution
Index				Dec-17	Jan-18	Feb-18	Mar-18	Q1 2017	Q4 2017	Q1 2018	Jan-18	Feb-18	Mar-18	Q1 2018	Q1 2018
AGG	ID	ISIC rev. 4 Description													
1	R	Rwanda	1000	117.97	117.58	117.34	116.81	120.16	118.62	117.24	-0.33	-0.20	-0.46	-1.17	-2.43
2	R	RC Manufacturing	749	120.59	120.08	119.78	119.09	123.42	121.41	119.65	-0.33	-0.20	-0.46	-1.17	-2.43
		Manufacture of food products													
4	RC	RC10	305	122.37	121.04	119.44	117.70	131.82	124.49	119.39	-0.38	-0.49	-0.46	-1.48	-4.51
4	RC	RC11	231	127.45	127.45	127.45	127.45	125.14	127.45	127.45	0.00	0.00	0.00	0.00	0.67
4	RC	RC13	6	82.38	82.38	82.38	82.38	73.62	82.38	82.38	0.00	0.00	0.00	0.00	0.12
		Printing and reproduction of recorded media													
4	RC	RC18	25	112.07	112.47	112.47	112.47	116.98	112.07	112.47	0.01	0.00	0.00	0.01	-0.15
		Manufacture of chemicals and chemical products													
4	RC	RC20	35	120.11	120.35	120.35	120.35	114.25	117.72	120.35	0.01	0.00	0.00	0.09	0.29
		Manufacture of rubber and plastics products													
4	RC	RC22	15	93.62	93.62	93.62	93.62	97.92	93.57	93.62	0.00	0.00	0.00	0.00	-0.10
		Manufacture of fabricated metal products, except machinery and equipment													
4	RC	RC25	39	115.13	115.13	122.21	122.21	108.99	115.13	119.85	0.00	0.29	0.00	0.19	0.61
		Electricity, gas, steam and air conditioning supply													
2	R	RD	76	119.74	119.74	119.74	119.74	119.74	119.74	119.74	0.00	0.00	0.00	0.00	0.00
		Water supply; sewerage, waste management and remediation activities													
2	R	RE	171	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00
		Information and communication													
2	R	RJ	4	191.87	191.87	191.87	191.87	191.87	191.87	191.87	0.00	0.00	0.00	0.00	0.00

Source: NISR

Annex 3: PPI, Export products			Weights	Index (December 2010=100)							Monthly Contribution			Quarterly Contribution	Annual Contribution
LVL AGG	Index ID	ISIC rev. 4 Description		Dec-17	Jan-18	Feb-18	Mar-18	Q1 2017	Q4 2017	Q1 2018	Jan-18	Feb-18	Mar-18	Q1 2018	Q1 2018
1	R	Exports	1000	135.89	137.73	139.01	139.60	127.97	137.40	138.78	1.36	0.93	0.43	1.00	8.45
		Mining of other non-ferrous													
6	RB072	RB0729 metal ores	393	120.04	135.00	141.38	141.84	120.77	122.34	139.41	2.02	2.96	-0.24	2.31	6.46
8	RC1079	RC107980 Manufacture of coffee products	268	112.73	112.24	105.04	103.28	109.11	113.45	106.85					
											-0.05	-2.75	0.83	-0.66	-0.59
8	RC1079	RC107990 Manufacture of tea products	328	163.13	154.18	156.10	156.70	145.67	164.70	155.66	-0.74	0.65	-0.23	-0.76	2.40
6	RC202	RC2029 Manufacture of other chemical products n.e.c.	10	117.62	154.51	160.56	154.89	134.15	124.73	156.66	0.13	0.06	0.06	0.11	0.18

Source: NISR

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