



REPUBLIC OF RWANDA



# **PRODUCER PRICE INDEX (PPI)**

**Producer Price  
Index  
(PPI)**

**October 2019**

**NATIONAL INSTITUTE OF STATISTICS OF RWANDA  
(NISR)**

## 1. Summary

This is the monthly publication of the Producer Price Index (PPI) for the month of October 2019.

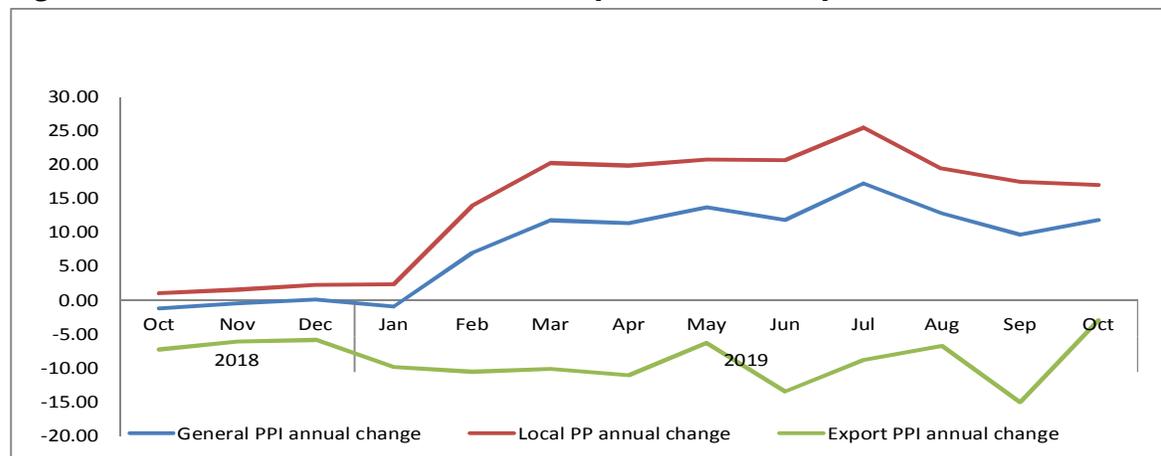
- General Producer Price Index increased by 11.82 percent on annual basis
- Local Producer Price Index increased by 17 percent on annual basis
- Export Producer Price Index decreased by 2.98 percent on annual basis
- General Producer Price Index increased by 2.02 percent on monthly basis
- Local Producer Price Index decreased by 0.16 percent on monthly basis
- Export Producer Price Index increased by 13.62 percent on monthly basis

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

Table 1: Producer Price Index, General, Local and Exports													
Percentage change on the same period 12 months and or one month earlier:													
	2018			2019									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
General PPI annual change	-1.21	-0.48	0.13	-0.92	7.01	11.80	11.38	13.75	11.85	17.25	12.82	9.64	11.82
Local PP annual change	1.02	1.59	2.28	2.38	13.93	20.24	19.87	20.72	20.65	25.48	19.41	17.48	17.00
Export PPI annual change	-7.25	-6.10	-5.85	-9.85	-10.57	-10.12	-11.04	-6.29	-13.46	-8.80	-6.73	-15.06	-2.98
General PPI monthly change	0.03	0.09	-0.15	-0.98	8.22	4.26	0.06	0.63	-0.96	2.84	-1.87	-2.47	2.02
Local PP monthly change	0.25	-0.34	0.31	-0.24	11.06	5.06	-0.02	0.65	0.03	3.22	-2.34	-0.75	-0.16
Export PPI monthly change	-0.53	1.34	-1.43	-2.95	0.12	0.93	0.52	0.66	-4.67	0.21	-0.33	-9.53	13.62

Source: NISR

**Figure1. Annual PPI for All Rwanda, local products and exports**



Source: NISR

## 1. 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 monthly basis.

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.

## 2. General Producer Price Index

Table 2 below presents the percentage changes on monthly and annual basis.

Table 2: Producer Price Index, General Index summary			Percentage change in Oct.2019		
Level	Index ID	ISIC rev. 4 Description	Weights	on Sept.2019	on Oct.2018
1	R	<b>Rwanda</b>	<b>1000</b>	<b>2.02</b>	<b>11.82</b>
2	RB	Mining and quarrying	96	1.78	-18.76
2	RC	Manufacturing	714	3.64	2.67
2	RD	Electricity, gas, steam and air conditioning supply	58	0.00	0.00
2	RE	Water supply; sewerage, waste management and remediation activities	129	0.00	90.59
2	RJ	Information and communication	3	0.00	0.00

*Source: NISR*

In October 2019, General PPI increased by 11.82 percent when compared to the same month of 2018. This is mainly due to an increase of 90.59 percent in price of water supply activities. Prices in manufacturing activities increased by 2.67 percent while prices in mining & quarrying decreased by of 18.76 percent.

The monthly general PPI increased by 2.02 percent. This was mainly due to an increase of 3.64 percent and 1.78 percent in prices of manufacturing and 'mining & quarrying' respectively.

## 3. Local Producer Price Index

The table 3 below presents the percentage changes on monthly and annual basis.

Table 3: Producer Price Index, Local Index summary			Percentage change in Oct.2019		
Level	Index ID	ISIC rev. 4 Description	Weights	on Sept.2019	on Oct.2018
1	R	<b>Rwanda</b>	<b>1000</b>	<b>-0.16</b>	<b>17.00</b>
2	RC	Manufacturing	749	-0.38	1.54
2	RD	Electricity, gas, steam and air conditioning supply	76	0.00	0.00
2	RE	Water supply; sewerage, waste management and remediation activities	171	0.00	90.59
2	RJ	Information and communication	4	0.00	0.00

*Source: NISR*

Local PPI increased by 17 percent in October 2019 compared to the same month of 2018. This was mainly due to an increase of 90.59 percent in prices of water supply activities and 1.54 percent in prices of manufacturing.

The monthly local PPI decreased by 0.16 percent. Manufacturing decreased by 0.38 percent.

#### 4. Export Producer Price Index

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

Level	Index ID	ISIC rev. 4 Description	Weights	Percentage change in Oct.2019	
				on Sept.2019	on Oct.2018
1	<b>R</b>	<b>Exports</b>	<b>1000</b>	13.62	-2.98
4	RB0729	Mining of other non-ferrous metal ores	393	1.78	-18.76
6	RC107980	Manufacture of coffee products	268	5.78	-16.42
6	RC107990	Manufacture of tea products	328	20.77	7.57
4	RC2029	Manufacture of other chemical products n.e.c.	10	-2.68	1.31

*Source: NISR*

Export PPI decreased by 2.98 percent in October 2019 compared to the same month of 2018. This was due to a decrease of 18.76 percent in prices of mining of other non-ferrous metal ores and 16.42 percent in prices of manufacturing of coffee. Manufacture of tea products increased by 7.57 percent and manufacture of other chemical products increased by 1.31 percent.

The monthly export PPI increased by 13.62 percent. This was due to an increase of 20.77 in prices of manufacturing of tea, 5.78 in prices of manufacturing of coffee, and 1.78 in prices of mining of other non-ferrous metal ores. Manufacture of other chemical products decreased by 2.68 percent.

#### 5. 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 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 monthly, about 4 weeks following the month under review.

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 (December 2010). NISR plan to rebase the PPI using the weights as reported in establishment census 2017.

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

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

<b>Annex 1: Producer Price Index, General</b>		Index (Dec 2010=100)			Contributions <sup>1</sup> :		
Level	Categories	Weights	Oct-18	Sep-19	Oct-2019	1 month	12 months
	<b>General Index</b>						
	<b>1 Rwanda</b>	<b>1000</b>	<b>123.26</b>	<b>138.56</b>	<b>135.14</b>	<b>2.02</b>	<b>11.82</b>
	2 Mining and quarrying	96	129.75	110.91	104.72	0.13	-1.80
	4 Mining of metal ores	96	129.75	110.91	104.72	0.13	-1.80
	2 Manufacturing	714	121.36	125.12	120.15	1.90	1.91
	4 Manufacture of food products	376	120.38	125.31	116.01	1.88	1.35
	4 Manufacture of beverages	174	127.70	127.70	127.70	0.00	0.00
	4 Manufacture of textiles	5	83.71	83.71	83.71	0.00	0.00
	4 Printing and reproduction of recorded media	19	108.52	110.31	110.31	0.00	-0.04
	4 Manufacture of chemicals and chemical products	29	121.41	123.63	122.43	-0.01	0.01
	4 Manufacture of rubber and plastics products	11	170.63	174.77	174.77	0.00	0.03
	4 Manufacture of other non-metallic mineral products	31	110.00	110.45	110.45	0.00	0.01
	Manufacture of fabricated metal products, except machinery and equipment	29	124.41	143.48	143.48	0.03	0.53
	4 Manufacture of furniture	9	115.02	113.40	113.40	0.00	0.00
	2 Electricity, gas, steam and air conditioning supply	58	158.94	158.94	158.94	0.00	0.00
	4 Electricity, gas, steam and air conditioning supply	58	158.94	158.94	158.94	0.00	0.00
	Water supply; sewerage, waste management and remediation activities	129	100.00	190.59	190.59	0.00	11.72
	4 Water collection, treatment and supply	129	100.00	190.59	190.59	0.00	11.72
	2 Information and communication	3	197.81	197.81	197.81	0.00	0.00
	4 Publishing activities	3	197.81	197.81	197.81	0.00	0.00

Source: NISR

(1) "Contributions" take into account both the growth rate and the relative weight of each category to explain the percentage change observed

<b>Annex 1: Producer Price Index, Local</b>									
Level	Categories	Weights	Index (Dec 2010=100)			Percentage change in Oct.2019		Contributions <sup>1</sup> :	
			Oct-18	Sep-19	Oct-2019	on Sep-2019	on Oct-2018	1 month	12 months
<b>Local Index</b>									
<b>1</b>	<b>Rwanda</b>	<b>1000</b>	<b>120.70</b>	<b>141.46</b>	<b>141.23</b>	<b>-0.16</b>	<b>17.00</b>	<b>-0.16</b>	<b>17.00</b>
2	Manufacturing	749	118.71	121.00	120.54	-0.38	1.54	-0.16	1.18
4	Manufacture of food products	305	116.01	118.77	117.26	-1.26	1.08	-0.19	0.38
4	Manufacture of beverages	231	127.70	127.70	127.70	0.00	0.00	0.00	0.00
4	Manufacture of textiles	6	83.71	83.71	83.71	0.00	0.00	0.00	0.00
4	Manufacture of paper and paper products	2	105.18	105.18	105.18	0.00	0.00	0.00	0.00
4	Printing and reproduction of recorded media	25	112.60	110.31	110.31	0.00	-2.03	0.00	-0.06
4	Manufacture of chemicals and chemical products	35	120.35	120.57	120.57	0.00	0.18	0.00	0.01
4	Manufacture of rubber and plastics products	15	92.82	95.54	95.54	0.00	2.93	0.00	0.05
4	Manufacture of other non-metallic mineral products	42	110.00	110.45	110.45	0.00	0.41	0.00	0.02
4	Manufacture of fabricated metal products, except machinery and equipment	39	124.41	143.48	145.44	1.37	16.90	0.03	0.76
4	Manufacture of electrical equipment	2	142.11	156.11	156.11	0.00	9.86	0.00	0.02
4	Manufacture of furniture	11	113.40	113.40	113.40	0.00	0.00	0.00	0.00
2	Electricity, gas, steam and air conditioning supply	76	158.94	158.94	158.94	0.00	0.00	0.00	0.00
4	Electricity, gas, steam and air conditioning supply	76	158.94	158.94	158.94	0.00	0.00	0.00	0.00
2	Water supply; sewerage, waste management and remediation activities	171	100.00	190.59	190.59	0.00	90.59	0.00	15.82
4	Water collection, treatment and supply	171	100.00	190.59	190.59	0.00	90.59	0.00	15.82
2	Information and communication	4	197.81	197.81	197.81	0.00	0.00	0.00	0.00
4	Publishing activities	4	197.81	197.81	197.81	0.00	0.00	0.00	0.00

Source: NISR

(1) "Contributions" take into account both the growth rate and the relative weight of each category to explain the percentage change observed

<b>Annex 1: Producer Price Index, General</b>		Index (Dec 2010=100)			Percentage change in Oct.2019		Contributions <sup>1</sup> :		
Level	Categories	Weights	Oct-18	Sep-19	Oct-2019	on Sep-2019	on Oct-2018	1 month	12 months
<b>General Index</b>									
	<b>1 Exports</b>	<b>1000</b>	<b>128.07</b>	<b>109.36</b>	<b>124.26</b>	<b>13.62</b>	<b>-2.98</b>	<b>13.62</b>	<b>-2.98</b>
	6 Mining of other non-ferrous metal ores	393	131.20	104.72	106.58	1.78	-18.76	1.06	-2.37
	8 Manufacture of coffee products	268	92.21	72.86	77.07	5.78	-16.42	2.34	-1.41
	8 Manufacture of tea products	328	145.81	129.86	156.84	20.77	7.57	10.27	0.80
	6 Manufacture of other chemical products n.e.c.	10	132.79	138.23	134.52	-2.68	1.31	-0.04	0.00

Source: NISR  
(1) "Contributions" take into account both the growth rate and the relative weight of each category to explain the percentage change observed

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