



REPUBLIC OF RWANDA



PRODUCER PRICE INDEX (PPI)

Producer Price
Index
(PPI)
December 2021

1. Summary

This is the monthly publication of the Producer Price Index (PPI) for the month of December 2021.

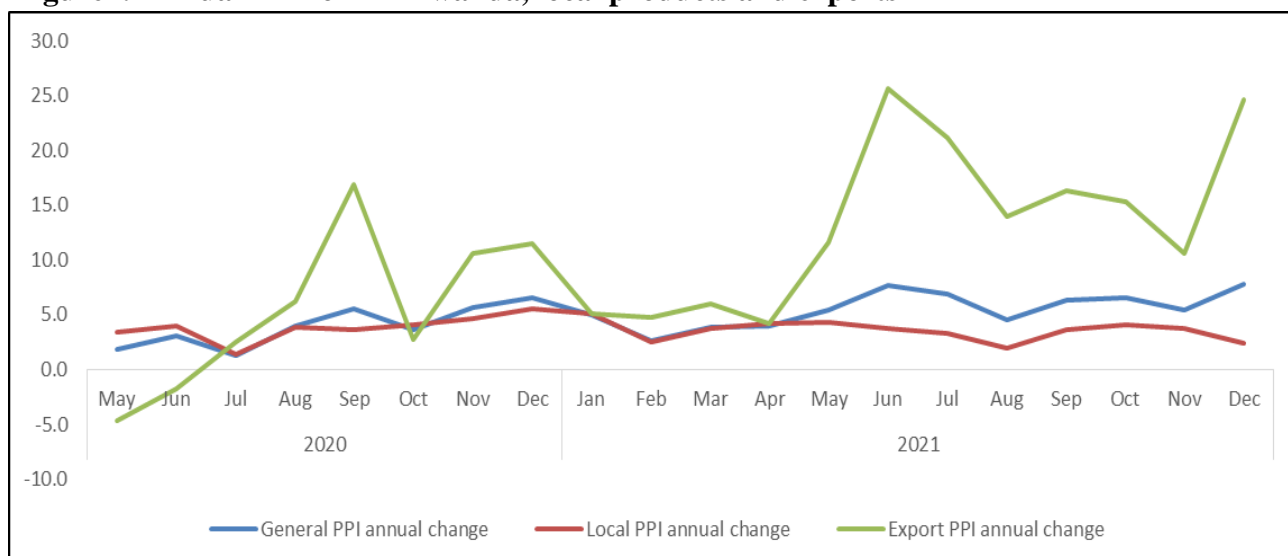
- General Producer Price Index increased by 7.8 percent on annual basis
- Local Producer Price Index increased by 2.4 percent on annual basis
- Export Producer Price Index increased by 24.6 percent on annual basis
- General Producer Price Index increased by 2.7 percent on monthly basis
- Local Producer Price Index decreased by 0.2 percent on monthly basis
- Export Producer Price Index increased by 10.6 percent on monthly basis

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

| | Percentage change on the same period 12 months and or one month earlier: | | | | | | | | | | | | |
|----------------------------|--|------|-----|-----|------|------|------|------|------|------|------|------|------|
| | 2020 | 2021 | | | | | | | | | | | |
| | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| General PPI annual change | 6.5 | 5.0 | 2.6 | 3.9 | 3.9 | 5.4 | 7.7 | 6.9 | 4.5 | 6.4 | 6.5 | 5.4 | 7.8 |
| Local PPI annual change | 5.5 | 5.1 | 2.5 | 3.8 | 4.2 | 4.3 | 3.7 | 3.3 | 1.9 | 3.6 | 4.1 | 3.7 | 2.4 |
| Export PPI annual change | 11.5 | 5.0 | 4.8 | 6.0 | 4.2 | 11.6 | 25.6 | 21.1 | 14.0 | 16.3 | 15.3 | 10.6 | 24.6 |
| General PPI monthly change | 0.5 | 0.5 | 0.4 | 0.8 | -0.1 | 0.3 | 2.4 | 0.3 | -1.6 | 0.9 | 0.3 | 0.6 | 2.7 |
| Local PPI monthly change | 1.1 | 0.7 | 0.4 | 0.7 | 0.1 | 0.1 | 0.1 | 0.2 | -1.2 | 0.6 | 0.8 | 0.2 | -0.2 |
| Export PPI monthly change | -1.8 | -0.5 | 0.4 | 1.2 | -0.6 | 1.1 | 10.5 | 0.8 | -2.8 | 1.6 | -1.0 | 1.9 | 10.6 |

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 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 below presents the percentage changes on monthly and annual basis.

| Table 2: Producer Price Index, General Index summary | | | Percentage change in Dec. 2021 | | |
|--|----------|---|--------------------------------|--------------|------------|
| Level | Index ID | ISIC rev. 4 Description | Weights on Nov. 2021 | on Dec. 2020 | |
| 1 | R | Rwanda | 1000 | 2.7 | 7.8 |
| 2 | RB | Mining and quarrying | 96 | 4.2 | 19.7 |
| 2 | RC | Manufacturing | 714 | 4.0 | 11.2 |
| 2 | RD | Electricity, gas, steam and air conditioning supply | 58 | 0.0 | 0.0 |
| 2 | RE | Water supply; sewerage, waste management and remediation activities | 129 | 0.0 | 0.0 |
| 2 | RJ | Information and communication | 3 | 0.0 | 0.0 |

Source: NISR

In December 2021, General PPI increased by 7.8 percent when compared to the same month of 2020. This is due to an increase of 11.2 percent in prices of manufacturing activities and an increase of 19.7 percent in prices of ‘mining and quarrying’.

Monthly general PPI increased by 2.7 percent. This is due to an increase of 4 percent in prices of manufacturing activities and an increase of 4.2 percent in prices of ‘mining and quarrying’.

3. Local Producer Price Index

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

| Table 3: Producer Price Index, Local Index summary | | | Percentage change in Dec. 2021 | | |
|--|----------|---|--------------------------------|--------------|------------|
| Level | Index ID | ISIC rev. 4 Description | Weights on Nov. 2021 | on Dec. 2020 | |
| 1 | R | Rwanda | 1000 | -0.2 | 2.4 |
| 2 | RC | Manufacturing | 749 | -0.4 | 4.5 |
| 2 | RD | Electricity, gas, steam and air conditioning supply | 76 | 0.0 | 0.0 |
| 2 | RE | Water supply; sewerage, waste management and remediation activities | 171 | 0.0 | 0.0 |
| 2 | RJ | Information and communication | 4 | 0.0 | 0.0 |

Source: NISR

Local PPI increased by 2.4 percent in December 2021 compared to the same month of 2020. This is due to an increase of 4.5 percent in prices of manufacturing activities.

Monthly local PPI decrease by 0.2 percent. This is due to a decrease of 0.4 percent in prices of manufacturing activities.

4. Export Producer Price Index

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

| Table 4: Producer Price Index, Exports Index summary | | | Percentage change in Dec.2021 | | |
|--|----------|---|-------------------------------|-------------|-------------|
| Level | Index ID | ISIC rev. 4 Description | Weights | on Nov.2021 | on Dec.2020 |
| 1 | R | Exports | 1000 | 10.6 | 24.6 |
| 4 | RB0729 | Mining of other non-ferrous metal ores | 393 | 4.2 | 19.7 |
| 6 | RC107980 | Manufacture of coffee products | 268 | 24.3 | 39.9 |
| 6 | RC107990 | Manufacture of tea products | 328 | 7.5 | 20.0 |
| 4 | RC2029 | Manufacture of other chemical products n.e.c. | 10 | -0.1 | 2.1 |

Source: NISR

Export PPI increased by 24.6 percent in December 2021 compared to the same month of 2020. This is mainly due to an increase of 39.9 percent in prices of coffee products, an increase of 20 percent in prices of tea products and an increase of 19.7 percent in prices of ‘mining and quarrying’.

The monthly export PPI increased by 10.6 percent. This is mainly due to an increase of 24.3 percent in prices of coffee products, an increase of 7.5 percent in prices of tea products and an increase of 4.2 percent in prices of mining & quarrying.

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 is 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).

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

| Annex 1: Producer Price Index, General | | Index (Dec 2010=100) | | | Percentage change in Dec. 2021 | | Contributions ¹ : | |
|---|--|----------------------|--------------|--------------|--------------------------------|--------------|------------------------------|------------|
| Level | Categories | Dec-20 | Nov-21 | Dec-21 | on Nov. 2021 | on Dec. 2020 | 1 month | 12 months |
| 1 | General Index | 146.0 | 153.2 | 157.4 | 2.7 | 7.8 | 2.7 | 7.8 |
| 2 | Mining and quarrying | 118.7 | 136.4 | 142.1 | 4.2 | 19.7 | 0.3 | 1.5 |
| 4 | Mining of metal ores | 118.7 | 136.4 | 142.1 | 4.2 | 19.7 | 0.3 | 1.5 |
| 2 | Manufacturing | 134.4 | 143.8 | 149.5 | 4.0 | 11.2 | 2.4 | 6.3 |
| 4 | Manufacture of food products | 140.2 | 152.6 | 161.5 | 5.8 | 15.2 | 2.3 | 5.3 |
| 4 | Manufacture of beverages | 127.7 | 128.3 | 128.3 | 0.0 | 0.4 | 0.0 | 0.1 |
| 4 | Manufacture of textiles | 92.8 | 92.8 | 95.7 | 3.1 | 3.1 | 0.0 | 0.0 |
| 4 | Printing and reproduction of recorded media | 101.0 | 106.2 | 106.2 | 0.0 | 5.1 | 0.0 | 0.1 |
| 4 | Manufacture of chemicals and chemical products | 135.4 | 157.0 | 157.0 | 0.0 | 15.9 | 0.0 | 0.4 |
| 4 | Manufacture of rubber and plastics products | 174.1 | 207.1 | 207.1 | 0.0 | 19.0 | 0.0 | 0.2 |
| 4 | Manufacture of other non-metallic mineral products | 112.3 | 114.9 | 114.9 | 0.0 | 2.3 | 0.0 | 0.1 |
| 4 | Manufacture of fabricated metal products, except machinery and equipment | 144.9 | 144.9 | 144.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Manufacture of furniture | 115.4 | 122.5 | 124.1 | 1.4 | 7.6 | 0.0 | 0.1 |
| 2 | Electricity, gas, steam and air conditioning supply | 179.5 | 179.5 | 179.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Electricity, gas, steam and air conditioning supply | 179.5 | 179.5 | 179.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | Water supply; sewerage, waste management and remediation activities | 190.6 | 190.6 | 190.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Water collection, treatment and supply | 190.6 | 190.6 | 190.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | Information and communication | 197.8 | 197.8 | 197.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Publishing activities | 197.8 | 197.8 | 197.8 | 0.0 | 0.0 | 0.0 | 0.0 |

Source: NISR

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

| Annex 2: Producer Price Index, Local | | Index (Dec 2010=100) Percentage change in Dec. 2021 Contributions ¹ : | | | | | | | |
|---|--|--|--------------|--------------|--------------|--------------|--------------|-------------|------------|
| Level | Categories | Weights | Dec-20 | Nov-21 | Dec-21 | on Nov. 2021 | on Dec. 2020 | 1 month | 12 months |
| 1 | General Index | 1000 | 149.5 | 153.4 | 153.0 | -0.2 | 2.4 | -0.2 | 2.4 |
| 2 | Manufacturing | 749 | 131.3 | 137.8 | 137.2 | -0.4 | 4.5 | -0.2 | 2.4 |
| 4 | Manufacture of food products | 305 | 140.0 | 149.3 | 148.1 | -0.9 | 5.7 | -0.4 | 1.3 |
| 4 | Manufacture of beverages | 231 | 127.7 | 128.3 | 128.3 | 0.0 | 0.4 | 0.0 | 0.1 |
| 4 | Manufacture of textiles | 6 | 92.8 | 92.8 | 92.8 | 3.1 | 3.1 | 0.0 | 0.0 |
| 4 | Printing and reproduction of recorded media | 25 | 101.0 | 106.2 | 106.2 | 0.0 | 5.1 | 0.0 | 0.1 |
| 4 | Manufacture of chemicals and chemical products | 35 | 135.4 | 158.6 | 158.6 | 0.0 | 17.2 | 0.0 | 0.4 |
| 4 | Manufacture of rubber and plastics products | 15 | 93.7 | 117.8 | 117.8 | 0.0 | 25.7 | 0.0 | 0.3 |
| 4 | Manufacture of other non-metallic mineral products | 42 | 112.3 | 114.9 | 114.9 | 0.0 | 2.3 | 0.0 | 0.1 |
| 4 | Manufacture of fabricated metal products, except machinery and equipment | 39 | 144.9 | 144.9 | 144.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Manufacture of furniture | 11 | 115.4 | 122.5 | 122.5 | 1.4 | 7.6 | 0.0 | 0.1 |
| 2 | Electricity, gas, steam and air conditioning supply | 76 | 179.5 | 179.5 | 179.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Electricity, gas, steam and air conditioning supply | 76 | 179.5 | 179.5 | 179.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | Water supply; sewerage, waste management and remediation activities | 171 | 190.6 | 190.6 | 190.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Water collection, treatment and supply | 171 | 190.6 | 190.6 | 190.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | Information and communication | 4 | 197.8 | 197.8 | 197.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | Publishing activities | 4 | 197.8 | 197.8 | 197.8 | 0.0 | 0.0 | 0.0 | 0.0 |

Source: NISR

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

| Annex 3: Producer Price Index, General Level Categories | Weights | Index (Dec 2010=100) | | | Percentage change in Dec. 2021 Contributions ¹ : | | | |
|--|-------------|----------------------|--------------|--------------|---|--------------|-------------|-------------|
| | | Dec-20 | Nov-21 | Dec-21 | on Nov. 2021 | on Dec. 2020 | 1 month | 12 months |
| 1 General Index | 1000 | 133.1 | 149.9 | 165.8 | 10.6 | 24.6 | 10.6 | 24.6 |
| 6 Mining of other non-ferrous metal ores | 393 | 118.7 | 136.4 | 142.1 | 4.2 | 19.7 | 1.6 | 7.6 |
| 8 Manufacture of coffee products | 268 | 120.6 | 135.7 | 168.7 | 24.3 | 39.9 | 6.5 | 10.5 |
| 8 Manufacture of tea products | 328 | 153.7 | 171.6 | 184.4 | 7.5 | 20.0 | 2.5 | 6.4 |
| 6 Manufacture of other chemical products n.e.c. | 10 | 136.3 | 139.4 | 139.2 | -0.1 | 2.1 | 0.0 | 0.0 |

Source: NISR

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

Contacts:

National Institute of Statistics of Rwanda (NISR),
P.O. BOX 6139 Kigali,
Tel.: +250-788383103 Hot line: 4321,
Web site: www.statistics.gov.rw
E-mail: info@statistics.gov.rw