



REPUBLIC OF RWANDA



# **PRODUCER PRICE INDEX (PPI)**

**Producer Price  
Index  
(PPI)**

**September 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 September 2019.

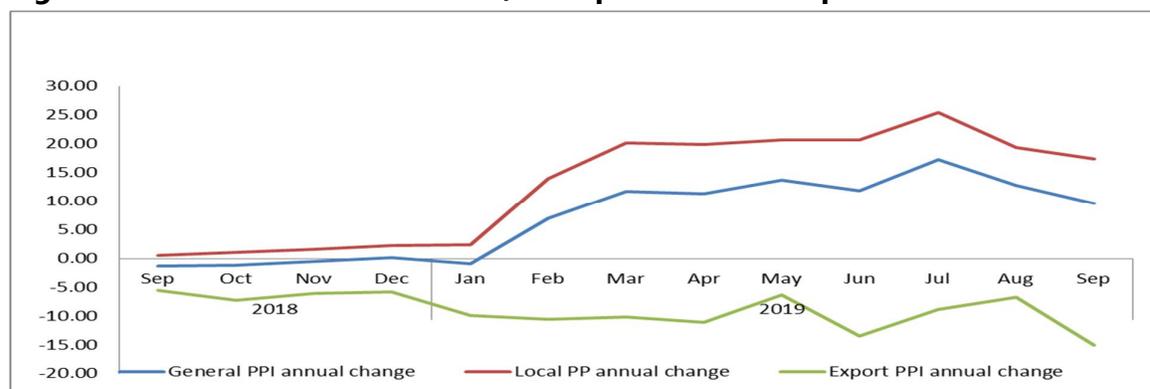
- General Producer Price Index increased by 9.64 percent on annual basis
- Local Producer Price Index increased by 17.48 percent on annual basis
- Export Producer Price Index decreased by 15.06 percent on annual basis
- General Producer Price Index decreased by 2.47 percent on monthly basis
- Local Producer Price Index decreased by 0.75 percent on monthly basis
- Export Producer Price Index decreased by 9.53 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: |       |       |       |       |        |        |        |       |        |       |       |        |
|----------------------------|--|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|-------|--------|
|                            | 2018   |       |       |       | 2019  |        |        |        |       |        |       |       |        |
|                            | Sep  | Oct   | Nov   | Dec   | Jan   | Feb    | Mar    | Apr    | May   | Jun    | Jul   | Aug   | Sep    |
| General PPI annual change  | -1.29  | -1.21 | -0.48 | 0.13  | -0.92 | 7.01   | 11.80  | 11.38  | 13.75 | 11.85  | 17.25 | 12.82 | 9.64   |
| Local PP annual change     | 0.55   | 1.02  | 1.59  | 2.28  | 2.38  | 13.93  | 20.24  | 19.87  | 20.72 | 20.65  | 25.48 | 19.41 | 17.48  |
| Export PPI annual change   | -5.52  | -7.25 | -6.10 | -5.85 | -9.85 | -10.57 | -10.12 | -11.04 | -6.29 | -13.46 | -8.80 | -6.73 | -15.06 |
| General PPI monthly change | 0.37   | 0.03  | 0.09  | -0.15 | -0.98 | 8.22   | 4.26   | 0.06   | 0.63  | -0.96  | 2.84  | -1.87 | -2.47  |
| Local PP monthly change    | 0.88   | 0.25  | -0.34 | 0.31  | -0.24 | 11.06  | 5.06   | -0.02  | 0.65  | 0.03   | 3.22  | -2.34 | -0.75  |
| Export PPI monthly change  | -0.66  | -0.53 | 1.34  | -1.43 | -2.95 | 0.12   | 0.93   | 0.52   | 0.66  | -4.67  | 0.21  | -0.33 | -9.53  |

Source: NISR

**Figure1. Annual 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 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.

### 3. 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 Sept.2019 |             |              |
|--|----------|---|--------------------------------|-------------|--------------|
| Level  | Index ID | ISIC rev. 4 Description   | Weights                        | on Aug.2019 | on Sept.2018 |
| 1  | R        | Rwanda  | 100                            | -2.47       | 9.64         |
| 2  | RB       | Mining and quarrying  | 96                             | -5.59       | -19.29       |
| 2  | RC       | Manufacturing   | 74                             | -3.97       | -100         |
| 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 September 2019, General PPI increased by 9.64 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 decreased by 1 percent while prices in mining & quarrying decreased by of 19.29 percent.

The monthly general PPI decreased by 2.47 percent compared to August 2019. This was mainly due to a decrease of 5.59 percent and 3.97 percent in prices of 'mining & quarrying' and manufacturing respectively.

### 4. 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 Sept.2019 |             |              |
|--|----------|---|--------------------------------|-------------|--------------|
| Level  | Index ID | ISIC rev. 4 Description   | Weights                        | on Aug.2019 | on Sept.2018 |
| 1  | R        | Rwanda  | 100                            | -0.75       | 17.48        |
| 2  | RC       | Manufacturing   | 749                            | -1.83       | 2.27         |
| 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 17.48 percent in September 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 2.27 percent in prices of manufacturing.

The monthly local PPI decreased by 0.75 percent compared to August 2019, mainly due to a decrease of 1.83 percent in the prices of manufacturing.

### 5. 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                       | Percentage change in Sept.2019 |             |              |
|-------|----------|---|--------------------------------|-------------|--------------|
|       |          |   | Weights                        | on Aug.2019 | on Sept.2018 |
| 1     | <b>R</b> | <b>Exports</b>                                | <b>1000</b>                    | -9.53       | -15.06       |
| 4     | RB0729   | Mining of other non-ferrous metal ores        | 393                            | -5.59       | -19.29       |
| 6     | RC107980 | Manufacture of coffee products                | 268                            | -15.13      | -29.57       |
| 6     | RC107990 | Manufacture of tea products                   | 328                            | -12.67      | -8.96        |
| 4     | RC2029   | Manufacture of other chemical products n.e.c. | 10                             | -9.11       | 4.67         |

Source: NISR

Export PPI decreased by 15.06 percent in September 2019 compared to the same month of 2018. This was due to a decrease of 19.29 percent in prices of mining of other non-ferrous metal ores, 29.57 percent in price of manufacturing of coffee and 8.96 percent in price of manufacturing tea.

The monthly export PPI decreased by 9.53 percent compared to August 2019. This was due to a general monthly decrease in prices of main export products.

## **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 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) |               |               | Percentage change in Sep-2019 Contributions 1: |              |             |              |             |
|---|---|----------------------|---------------|---------------|--|--------------|-------------|--------------|-------------|
| <b>Level</b>                                  | <b>Categories</b>   | Weights              | Sep-18        | Aug-19        | Sep-19   | on Aug-2019  | on Sep-2018 | 1 month      | 12 months   |
| <b>General Index</b>                          |   |                      |               |               |  |              |             |              |             |
| <b>1</b>                                      | <b>Rwanda</b>   | <b>1000</b>          | <b>122.81</b> | <b>141.20</b> | <b>138.56</b>                                  | <b>-2.47</b> | <b>9.64</b> | <b>-2.47</b> | <b>9.64</b> |
| 2   | Mining and quarrying  | 96                   | 138.70        | 122.99        | 110.91   | -5.59        | -19.29      | -0.39        | -1.95       |
| 4   | Mining of metal ores  | 96                   | 138.70        | 122.99        | 110.91   | -5.59        | -19.29      | -0.39        | -1.95       |
| 2   | Manufacturing   | 714                  | 120.24        | 126.82        | 125.12   | -3.97        | -1.00       | -2.07        | -0.75       |
| 4   | Manufacture of food products  | 376                  | 118.29        | 128.81        | 125.31   | -7.42        | -3.63       | -2.05        | -1.25       |
| 4   | Manufacture of beverages  | 174                  | 127.70        | 127.70        | 127.70   | 0.00         | 0.00        | 0.00         | 0.00        |
| 4   | Manufacture of tobacco products                                     | 3                    | 100.00        | 100.00        | 100.00   | 0.00         | 0.00        | 0.00         | 0.00        |
| 4   | Manufacture of textiles   | 5                    | 83.71         | 83.71         | 83.71  | 0.00         | 0.00        | 0.00         | 0.00        |
| 4   | Manufacture of leather and related products                         | 24                   | 89.31         | 89.31         | 89.31  | 0.00         | 0.00        | 0.00         | 0.00        |
| 4   | Printing and reproduction of recorded media                         | 19                   | 108.52        | 110.31        | 110.31   | 0.00         | 1.64        | 0.00         | 0.03        |
| 4   | Manufacture of chemicals and chemical products                      | 29                   | 121.04        | 122.31        | 123.63   | -0.97        | 0.84        | -0.02        | 0.02        |
| 4   | Manufacture of rubber and plastics products                         | 11                   | 170.63        | 174.77        | 174.77   | 0.00         | 2.43        | 0.00         | 0.02        |
| 4   | Manufacture of other non-metallic mineral products                  | 31                   | 110.00        | 110.45        | 110.45   | 0.00         | 0.41        | 0.00         | 0.01        |
| 4   | equipment   | 29                   | 124.41        | 143.48        | 143.48   | 0.00         | 15.32       | 0.00         | 0.41        |
| 4   | Manufacture of furniture  | 9                    | 115.02        | 113.40        | 113.40   | 0.00         | -1.41       | 0.00         | -0.01       |
| 2   | Electricity, gas, steam and air conditioning supply                 | 58                   | 158.94        | 158.94        | 158.94   | 0.00         | 0.00        | 0.00         | 0.00        |
| 4   | Electricity, gas, steam and air conditioning supply                 | 58                   | 158.94        | 158.94        | 158.94   | 0.00         | 0.00        | 0.00         | 0.00        |
| 2   | Water supply; sewerage, waste management and remediation activities | 129                  | 100.00        | 190.59        | 190.59   | 0.00         | 90.59       | 0.00         | 12.34       |
| 4   | Water collection, treatment and supply                              | 129                  | 100.00        | 190.59        | 190.59   | 0.00         | 90.59       | 0.00         | 12.34       |
| 2   | Information and communication                                       | 3                    | 197.81        | 197.81        | 197.81   | 0.00         | 0.00        | 0.00         | 0.00        |
| 4   | Publishing activities   | 3                    | 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, Local</b> |  | Index (Dec 2010=100) |               |               | Percentage change in Sep.2019 |              | Contributions 1 |              |              |
|---|--|----------------------|---------------|---------------|-------------------------------|--------------|-----------------|--------------|--------------|
| Level                                       | Categories   | Weights              | Sep- 18       | Aug- 19       | Sep- 19                       | on Aug-2019  | on Sep-2018     | 1month       | 12 months    |
| <b>Local Index</b>                          |  |                      |               |               |                               |              |                 |              |              |
| <b>1</b>                                    | <b>Rwanda</b>  | <b>1000</b>          | <b>120.40</b> | <b>142.52</b> | <b>141.46</b>                 | <b>-0.75</b> | <b>17.48</b>    | <b>-0.75</b> | <b>17.48</b> |
| 2   | Manufacturing  | 749                  | 118.31        | 123.25        | 121.00                        | -1.83        | 2.27            | -0.75        | 1.73         |
| 4   | Manufacture of food products   | 305                  | 115.24        | 124.16        | 118.77                        | -4.34        | 3.06            | -0.75        | 0.99         |
| 4   | Manufacture of beverages   | 231                  | 127.70        | 127.70        | 127.70                        | 0.00         | 0.00            | 0.00         | 0.00         |
| 4   | Manufacture of tobacco products  | 4                    | 100.00        | 100.00        | 100.00                        | 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 leather and related products                              | 31                   | 89.31         | 89.31         | 89.31                         | 0.00         | 0.00            | 0.00         | 0.00         |
| 4   | Printing and reproduction of recorded media                              | 25                   | 108.52        | 110.31        | 110.31                        | 0.00         | 1.64            | 0.00         | 0.04         |
| 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        | 143.48                        | 0.00         | 15.32           | 0.00         | 0.63         |
| 4   | Manufacture of furniture   | 11                   | 115.02        | 113.40        | 113.40                        | 0.00         | -1.41           | 0.00         | -0.02        |
| 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         | 15.75        |
| 4   | Water collection, treatment and supply                                   | 171                  | 100.00        | 190.59        | 190.59                        | 0.00         | 90.59           | 0.00         | 15.75        |
| 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: INSR  
(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 Sep.2019 |              | Contributions 1 |              |               |
|---|--|----------------------|---------------|---------------|-------------------------------|--------------|-----------------|--------------|---------------|
| Level   | Categoriies                            | Weights              | Sep- 18       | Aug- 19       | Sep- 2019                     | on Aug- 2019 | on Sep- 2018    | 1month       | 12 months     |
|   | <b>General Index</b>                   |                      |               |               |                               |              |                 |              |               |
|   | <b>1 Exports</b>                       | <b>1000</b>          | <b>128.75</b> | <b>120.88</b> | <b>109.36</b>                 | <b>-9.53</b> | <b>-15.06</b>   | <b>-9.53</b> | <b>-15.06</b> |
| 6   | Mining of other non-ferrous metal ores | 393                  | 129.75        | 110.91        | 104.72                        | -5.59        | -19.29          | -1.99        | -6.20         |
| 8   | Manufacture of coffee products         | 268                  | 103.44        | 85.84         | 72.86                         | -15.13       | -29.57          | -3.68        | -6.49         |
| 8   | Manufacture of tea products            | 328                  | 142.65        | 148.71        | 129.86                        | -12.67       | -8.96           | -3.77        | -2.40         |
|   | Manufacture of other chemical products |                      |               |               |                               |              |                 |              |               |
| 6   | n.e.c.                                 | 10                   | 132.06        | 152.08        | 138.23                        | -9.11        | 4.67            | -0.08        | 0.04          |

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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