



# PRODUCER PRICE INDEX

2023 - Quarter IV

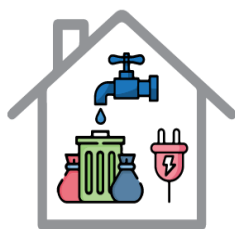
# Producer Price Index (PPI)- Maldives

October-December 2023 TIME OF RELEASE: Thursday, 29th February 2024

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## PPI MONTHLY & QUARTERLY SUMMARY: December 2023

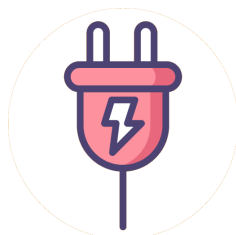
### Utility



**Monthly: +0.58%**

**\*Quarterly: -0.27%**

### Electricity



**Monthly: +0.82%**

**\*Quarterly: -0.51%**

### Water Supply



**Monthly: -0.17%**

**\*Quarterly: +0.66%**

### Construction



**Monthly: +0.01%**

**\*Quarterly: +0.33%**

### Resorts



**Monthly: +4.78%**

**\*Quarterly: +21.52%**

### Information & Communication



**Monthly: +0.11%**

**Quarterly: -2.17%**

### Education



**Monthly: 0.00%**

**\*Quarterly: 0.20%**

## PPI Utility- Electricity, Water & Waste Management

Price reference = January 2019 | Index reference = January 2019

### KEY FIGURES 2023 Q4 PPI - Electricity, Water & Waste Management

**Tab 1: Monthly & Month on month change**

Month	PPI – Utility		% Change month-on-month
	2022	2023	
Oct	98.50	105.77	7.38
Nov	98.47	105.87	7.52
Dec	98.40	106.49	8.22

**Tab 2: Monthly PPI and Percentage Change**

Month	PPI – Utility	% Change over previous month	% Change - month on month
Oct-22	98.50	0.66	0.25
Nov-22	98.47	-0.03	-0.01
Dec-22	98.40	-0.07	-0.56
Jan-23	98.72	0.32	1.11
Feb-23	99.08	0.36	-0.16
Mar-23	107.01	8.01	6.82
Apr-23	108.43	1.32	7.40
May-23	107.01	-1.31	6.14
Jun-23	106.81	-0.19	7.40
Jul-23	106.16	-0.61	7.59
Aug-23	106.91	0.71	9.03
Sep-23	105.93	-0.92	8.26
Oct-23	105.77	-0.15	7.38
Nov-23	105.87	0.10	7.52
Dec-23	106.49	0.58	8.22

In 2023 quarter 4 (Q4), the PPI for monthly utility experienced slight fluctuations (Tab 1, 2). The month-on-month price was positive in all three months of Q4. The growth rate for December 2023 compared to the corresponding month in 2022 was at +8.22%.

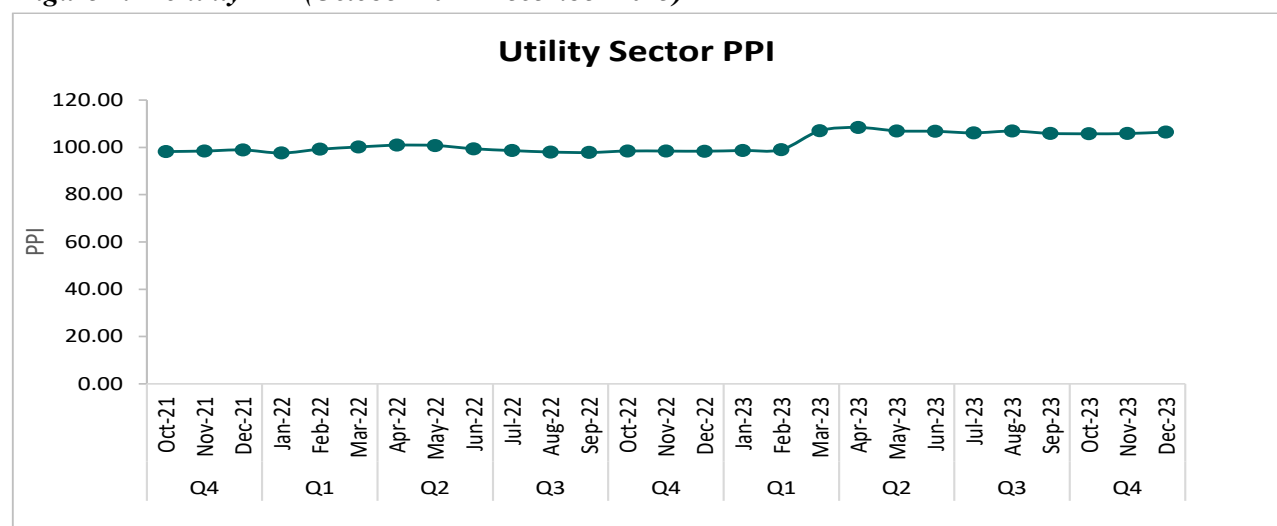
### 2023 Q4 & LONG TERM TREND

The utility PPI consists of Electricity, Water Supply and Waste Management sectors. On the whole, the utility prices remained fairly stable until February 2023 with only minor fluctuations mainly caused by changes in consumption (Fig 1). The monthly utility PPI growth varied between October to December 2023 (Tab 2) at  $-0.15\%$ ,  $+0.10\%$ , and  $+0.58\%$  respectively. During the past 2 years, the highest monthly growth occurred in March 2023 at  $+8.01\%$  due to changes in price of waste management services. The month-on-month growth has been positive since March 2023, with peak in August 2023 at  $+9.03\%$  due to waste and electricity prices.

The utility PPI may fluctuate even if the band rates for major sectors remain unchanged as the amount consumed affects the average unit price received by the producers.

### PRICE MOVEMENT IN UTILITY (October 2021–December 2023)

**Figure 1: Monthly PPI (October 2021–December 2023)**



## ELECTRICITY PPI — KEY FIGURES 2023 Q4

**Tab 3: Monthly & Month on month change**

Month	PPI – Electricity		% Change month-on-month
	2022	2023	
Oct	99.00	100.90	1.92
Nov	98.96	100.96	2.02
Dec	98.83	101.79	3.00

In 2023 quarter 4 (Q4), PPI for electricity experienced some fluctuations. However, the month-on-month growth rate remained positive in all three months of 2023, Q4 (Table 3). The month-on-month growth rate in December 2023 was +3.00%.

**Tab 4: Monthly PPI and Percentage Change**

Month	PPI – Electricity	% Change over previous month	% Change - month on month
Oct-22	99.00	0.89	-0.76
Nov-22	98.96	-0.04	-0.24
Dec-22	98.83	-0.13	-0.14
Jan-23	99.38	0.56	-0.31
Feb-23	99.83	0.45	-0.41
Mar-23	102.52	2.70	1.42
Apr-23	103.99	1.43	2.06
May-23	102.45	-1.48	0.72
Jun-23	102.17	-0.27	1.99
Jul-23	101.60	-0.57	2.35
Aug-23	102.41	0.80	4.02
Sep-23	101.21	-1.17	3.15
Oct-23	100.90	-0.31	1.92
Nov-23	100.96	0.06	2.02
Dec-23	101.79	0.82	3.00

### LONG TERM TREND-Electricity

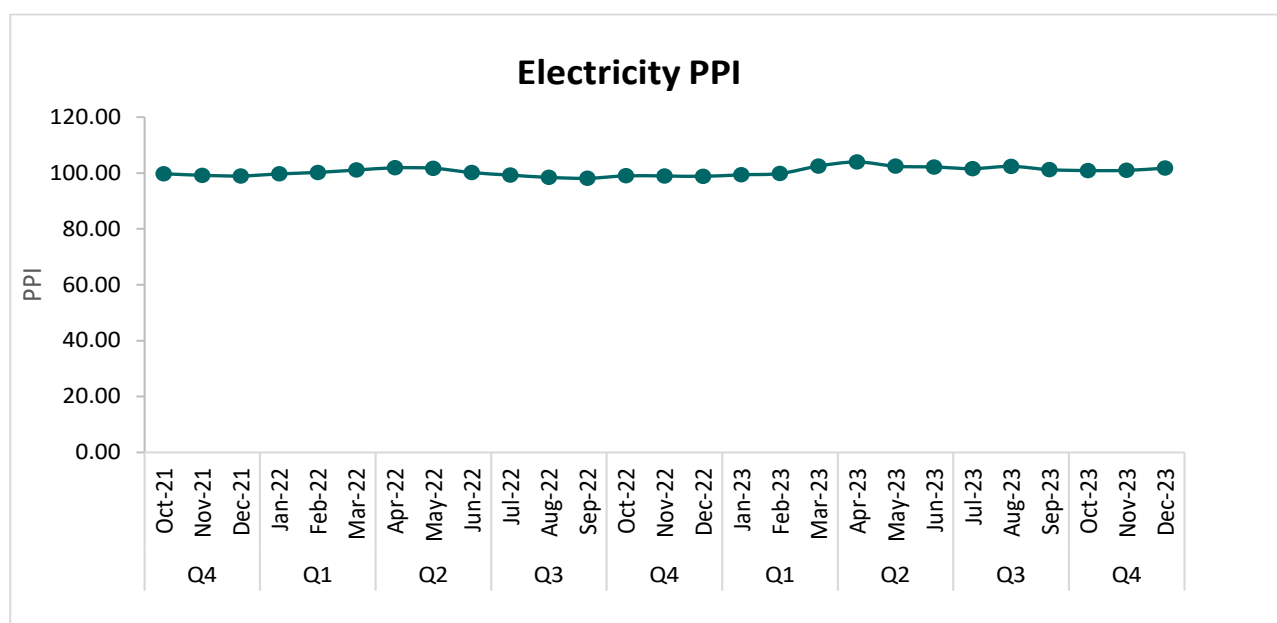
Overall, the electricity prices remained somewhat stable with only minor variations mainly caused by changes in electricity consumption (Fig 2).

The electricity PPI appears to follow a rising trend during the first quarter of each year when the weather is warmest, fluctuating with seasonal changes, and during Ramadan. A relatively significant increase of +2.70% occurred in March 2023 coincided by Ramadan and warm weather.

The Producer Price Index for Electricity is based on unit prices. Thus, electricity PPI may show fluctuations even if the band rates remain unchanged. The PPI for electricity will be affected by the amounts consumed by customers which shift them from one price band to the other, affecting the average price received by the producers.

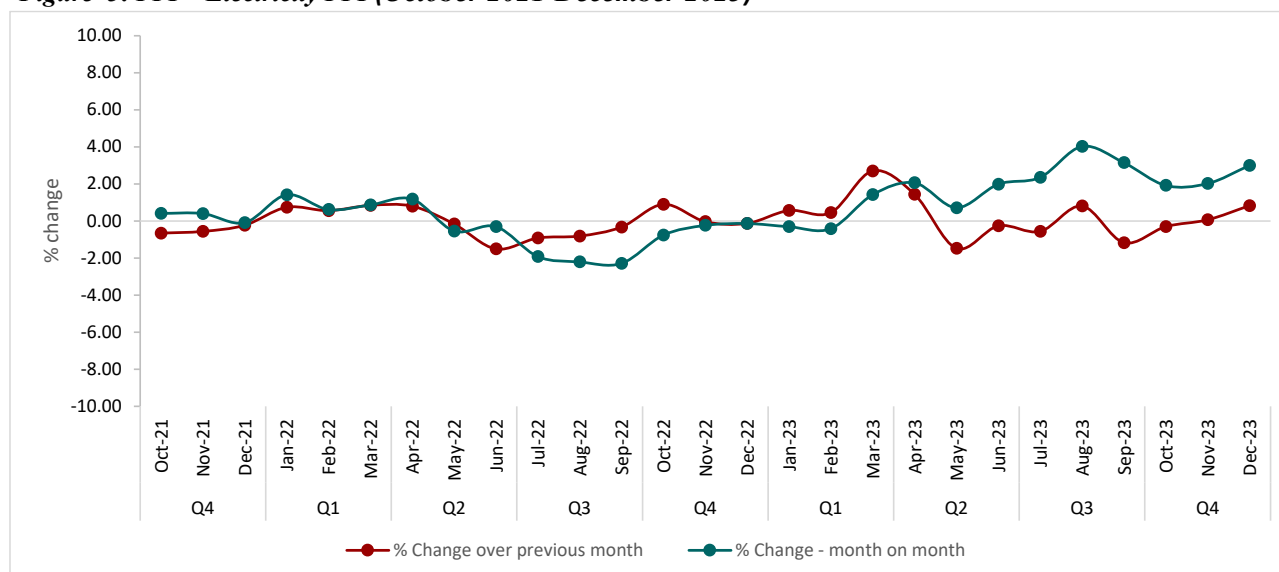
### PRICE MOVEMENT IN ELECTRICITY (October 2021–December 2023)

**Figure 2: Monthly PPI (October 2021-December 2023)**



## Electricity PPI

Figure 3: PPI – Electricity PPI (October 2021-December 2023)



The Figure 3 and table 4 illustrates percentage change in the electricity PPI during the past two years, from October 2021 to December 2023.

The monthly PPI varied between October to December 2023 at  $-0.31\%$ ,  $+0.06\%$  and  $+0.82\%$  respectively. These changes are caused by changes in electricity consumption. During the past two years, the monthly growth in electricity PPI was highest in March 2023, at  $+2.70\%$ . This coincides with the warm season and the month of Ramadan as mentioned above.

The month-on-month prices in 2023 Q4 experienced positive growth between October and December, at  $+1.92\%$ ,  $+2.02\%$  and  $+3.00\%$  respectively. This significant positive growth is the result of additional subsidies provided since March 2023 as mentioned above.

The electricity PPI will continue to change with changes in consumption or due to policy changes such as subsidies.

## WATER SUPPLY PPI — KEY FIGURES 2023 Q4

Tab 5: Monthly & Month on month change

Month	PPI – Water Supply		% Change month-on-month
	2022	2023	
Oct	96.02	96.75	0.76
Nov	96.03	97.07	1.08
Dec	96.24	96.90	0.68

In 2023 quarter 4 (Q4), the PPI for water supply also had some fluctuations. The month-on-month prices experienced positive growth throughout quarter 4 (Table 5). In December 2023, the month-on-month growth was at +0.68%.

Tab 6: Monthly PPI and Percentage Change

Month	PPI – Water Supply	% Change over previous month	% Change - month on month
Oct-22	96.02	-0.20	4.98
Nov-22	96.03	0.02	1.02
Dec-22	96.24	0.22	-2.47
Jan-23	96.01	-0.25	8.63
Feb-23	96.09	0.09	1.39
Mar-23	96.67	0.60	0.28
Apr-23	98.17	1.55	1.00
May-23	96.96	-1.23	-0.22
Jun-23	97.02	0.07	0.87
Jul-23	95.93	-1.12	0.04
Aug-23	96.57	0.67	0.61
Sep-23	96.31	-0.27	0.10
Oct-23	96.75	0.46	0.76
Nov-23	97.07	0.33	1.08
Dec-23	96.90	-0.17	0.68

### LONG TERM TREND-Water Supply

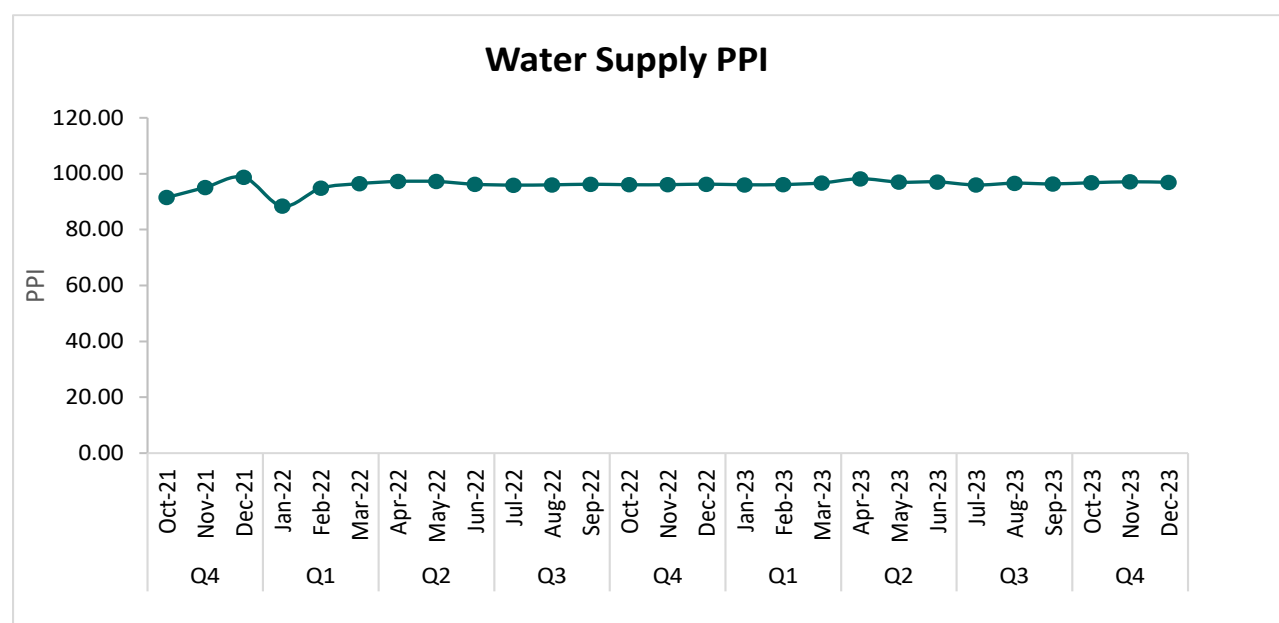
The water supply PPI remained fairly stable from February 2022 onwards. During the past 12 months (Table 6, Fig 4), the most significant increase occurred in April 2023 at +1.55%. The producers noted that changes in prices are mainly caused by changes in water consumption.

The Producer Price Index for Water Supply is also based on unit prices. Thus, the PPI may show fluctuations even if the band rates remain unchanged.

The water supply PPI will also be affected by the amounts consumed by customers which shift them from one price band to the other, affecting the average price received by the producers.

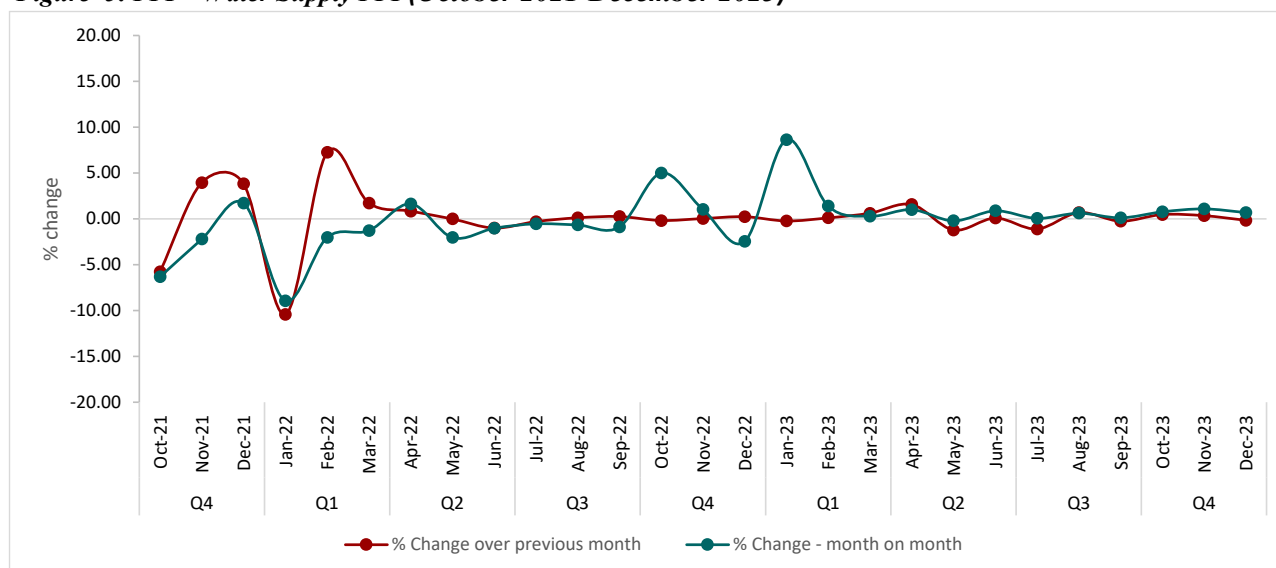
### PRICE MOVEMENT IN WATER SUPPLY (October 2021–December 2023)

Figure 4: Monthly PPI (October 2021-December 2023)



## Water Supply PPI

Figure 5: PPI – Water Supply PPI (October 2021-December 2023)



The Figure 5 and table 6 show percentage changes in the water supply PPI during the past two years.

The monthly PPI for water supply varied between October to December 2023 at +0.46%, +0.33%, and -0.17% respectively. Similar to electricity PPI, the water supply PPI will also continue to change with changes in water consumption.

The month-on-month prices also fluctuated throughout the fourth quarter. Month-on-month growth rates between October to December were +0.76%, +1.08%, and +0.68% respectively.

## PPI Construction

Price reference = January 2019 | Index reference = January 2019

### KEY FIGURES 2023 , Q4 — PPI FOR CONSTRUCTION

Tab 7: Monthly & Month on month change

Month	PPI –Construction		% Change month-on-month
	2022	2023	
Oct	127.37	140.67	10.44
Nov	127.46	141.10	10.71
Dec	127.54	141.11	10.64

Tab 8: Monthly PPI - Percentage Change

Month	PPI– Construction	% Change over previous month	% Change - month on month
Oct-22	127.37	1.63	8.18
Nov-22	127.46	0.07	8.17
Dec-22	127.54	0.07	8.21
Jan-23	138.09	8.27	13.84
Feb-23	138.12	0.02	13.83
Mar-23	138.17	0.03	13.82
Apr-23	140.48	1.67	14.01
May-23	140.48	0.00	13.95
Jun-23	140.49	0.00	13.91
Jul-23	140.49	0.00	12.18
Aug-23	140.49	0.00	12.14
Sep-23	140.50	0.00	12.10
Oct-23	140.67	0.12	10.44
Nov-23	141.10	0.31	10.71
Dec-23	141.11	0.01	10.64

In 2023, quarter 4 (Q4), the monthly PPI for Construction sector increased slightly in December. The month-on-month prices between December 2022 and 2023 had a significant increase of +10.64% (Tab 7). This is mainly due to increasing cost of materials and import costs.

### Monthly & Month-on-Month Changes

On the whole, construction PPI follows an increasing trend (Figure 7, Tab 8) with some monthly and month-on-month variations as illustrated (Fig 6) below.

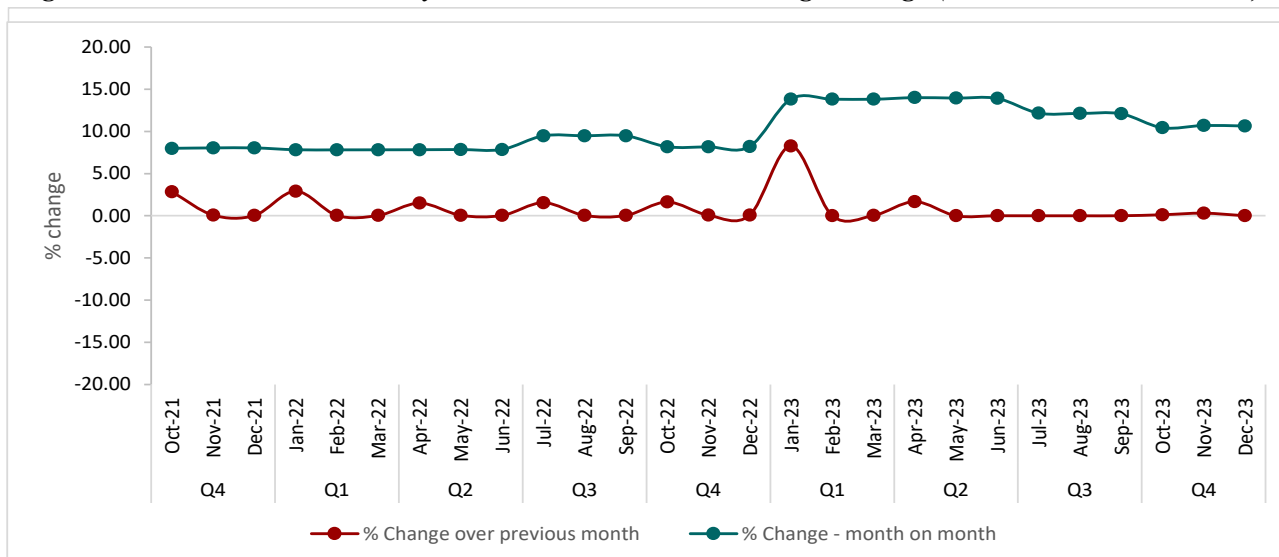
The monthly construction PPI varied between October to December at +0.12%, +0.31%, and +0.01% respectively.

The month-on-month prices between October and December 2023 were at +10.44%, +10.71% and +10.64% respectively.

The Construction PPI consists of building construction and road construction, carrying weights of 0.75 and 0.25 respectively. The sample is unique for each outlet depending on the type of construction carried out by each outlet.

### PRICE MOVEMENT IN CONSTRUCTION SECTOR-(Oct 2021–Dec 2023)

Figure 6: PPI Education: Monthly & Month-on-month Percentage Change (Oct 2021-December 2023)



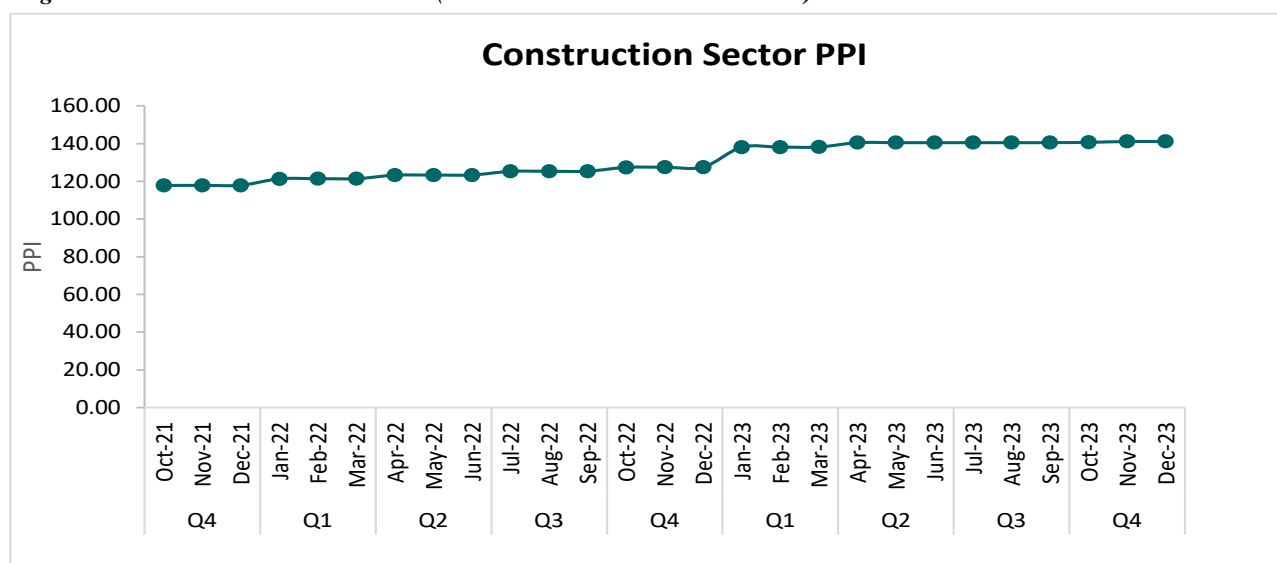
## Construction PPI

**Tab 9: PPI – Construction Types, and Month on month percentage change**

Construction Types	Dec-22	Dec-23	% Change month-on-month
Construction	127.54	141.11	10.64
Building Construction	129.28	136.03	5.23
Road Construction	122.33	156.36	27.82

As illustrated in Table 9, over the twelve months, construction prices have increased significantly. The overall construction prices increased by +10.64%, while building construction and road construction increased by +5.23% and +27.82% respectively. These changes occur due to increase in import prices, change in import markets, exchange rates, and so on.

**Figure 7: PPI – Construction Sector PPI (October 2021-December 2023)**



**Figure 8: PPI – Building and Road Construction Index (October 2021-December 2023)**

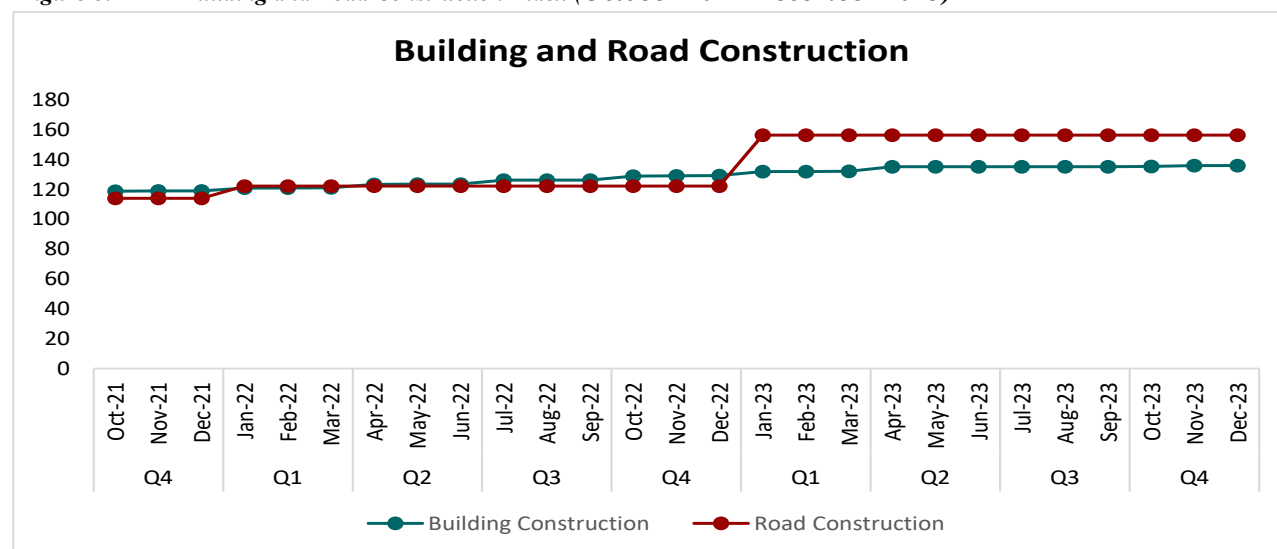


Figure 8, shows the PPI for building and road construction. Although both building and road construction follow an increasing trend, a significant change occurred for road construction in January 2023 with a monthly increase of +27.82% due to increase in cost of raw materials. The monthly PPI for building construction in December 2023 increased by +0.01%, while road prices remained unchanged since February 2023. The month-on-month building construction price increased by +5.23% in December 2023, while road prices remained constant at +27.82%.

## PPI Resorts

Price reference = January 2019 | Index reference = January 2019

### KEY FIGURES 2023 Q4 — PPI RESORT SECTOR

**Tab 10: Monthly & Month on month change**

Month	PPI – Resorts		% Change month-on-month
	2022	2023	
Oct	81.07	87.18	7.53
Nov	92.85	98.91	6.53
Dec	98.66	103.64	5.05

**Tab 11: Monthly PPI and Percentage Change**

Month	PPI – Resorts	% Change over previous month	% Change - month on month
Oct-22	81.07	8.80	3.27
Nov-22	92.85	14.52	4.31
Dec-22	98.66	6.26	2.11
Jan-23	110.34	11.84	2.59
Feb-23	110.04	-0.28	6.47
Mar-23	108.00	-1.85	4.75
Apr-23	95.11	-11.94	-6.02
May-23	77.33	-18.69	2.35
Jun-23	76.11	-1.58	7.15
Jul-23	77.56	1.91	7.84
Aug-23	81.32	4.85	7.18
Sep-23	79.53	-2.21	6.73
Oct-23	87.18	9.62	7.53
Nov-23	98.91	13.46	6.53
Dec-23	103.64	4.78	5.05

In 2023, quarter 4 (Q4), the PPI for resort sector experienced an increasing trend. Compared to 2022 Q4, prices remain high in all three months of 2023 (Table 10), with October being at the peak (+7.53%). These changes occur due to changes in demand, and offers provided to attract customers .

### LONG TERM TREND-Resorts

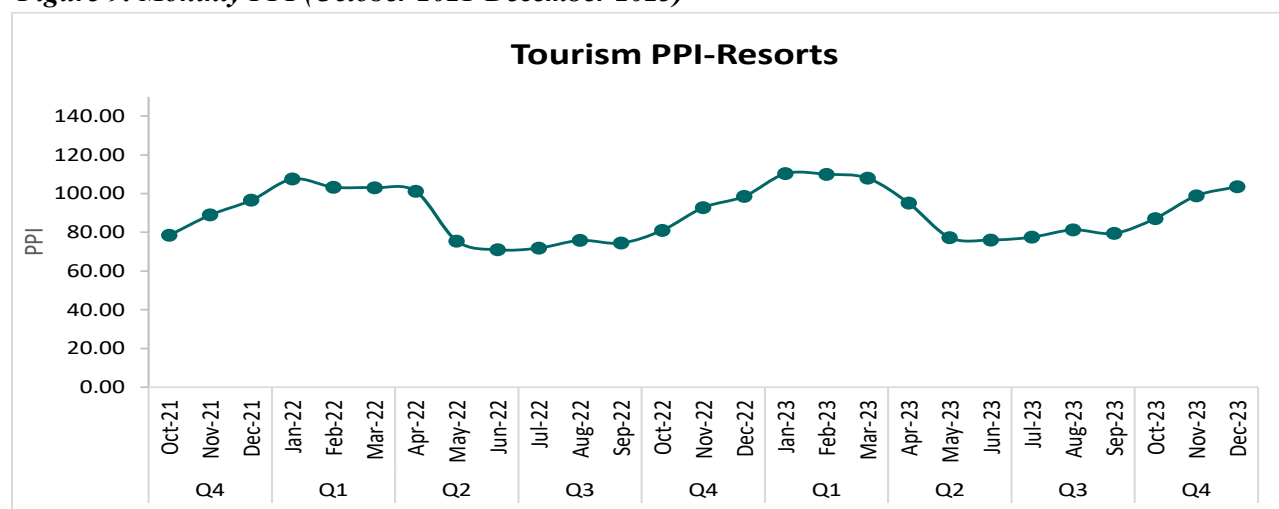
Table 11 and figure 9 illustrates that the resort sector PPI experienced ups and downs throughout the period. Seasonal fluctuations are expected in this sector with increasing prices during holiday seasons such as new year, and during winter.

During the past two years, the PPI peaked in January 2023, due to high demand by foreign tourists during Christmas and holiday season.

The Producer Price Index for Resort sector is based on accommodation prices where 3 room types have been targeted based on their revenue in the base year and availability since January 2019. The room prices take into account the common booking characteristics preferred by guests for each room type. Hence product specifications are unique for each resort.

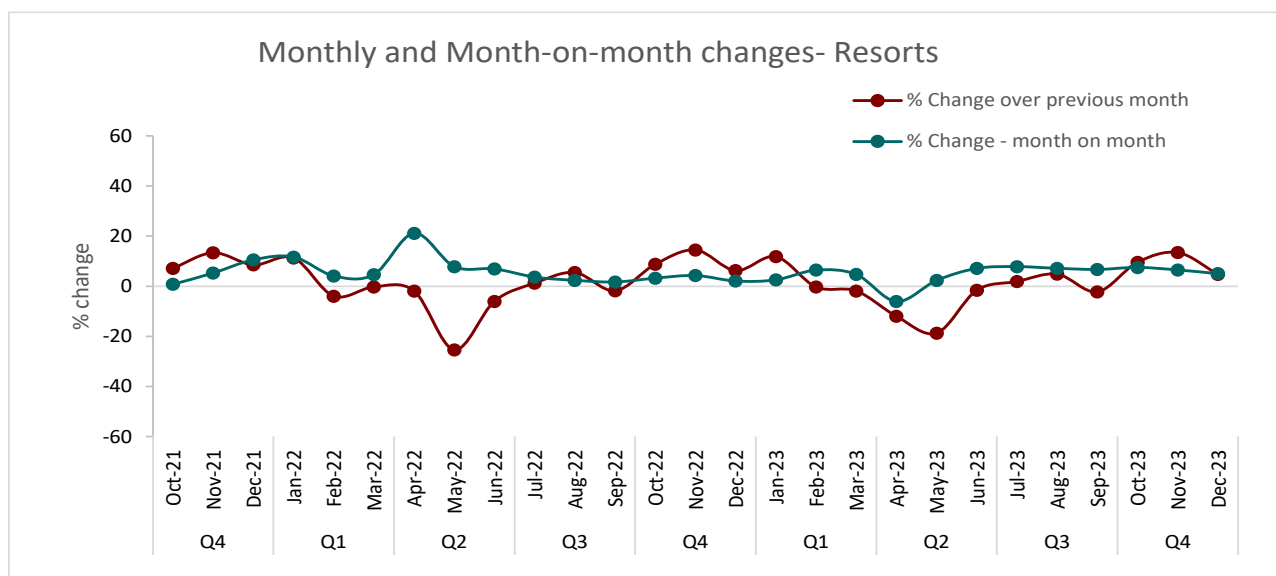
### PRICE MOVEMENT IN RESORT SECTOR (October 2021–December 2023)

**Figure 9: Monthly PPI (October 2021–December 2023)**



## Resort Sector PPI

Figure 10: PPI – Resort Sector PPI (October 2021-December 2023)



The Figure 10, show percentage change in the resort sector PPI during the past two years.

The monthly PPI for resorts varied between October and December 2023 at +9.62%, +13.46%, and +4.78% respectively. The positive growth indicates the increasing demand during winter season.

Between October 2021 and December 2023, the monthly growth rate in resort PPI was highest in November 2022 at +14.52. This is when the peak season begins in tourism sector. The lowest monthly growth was noted in May 2022, coinciding with the low season and travel barriers and potential loss of consumer confidence as a result of international conflicts, especially the Russia-Ukraine conflict, as both countries held major shares in the inbound tourism in Maldives.

The month-on-month prices experienced positive growth in all three months of quarter 4. Between October to December, the growth rates were +7.53%, +6.53%, and +5.05% respectively. The positive month-on-month growth reflects the increase in tourist arrivals and hence demand during the period compared to 2022.

During the past two years, the month-on-month growth rate peaked in April 2022 at +21.13%, while the lowest growth was noted in April 2023 at -6.02%. Even though low season begins in April, growth was high in April 2022 since the corresponding period in 2021 still had covid-related restrictions abroad and hence there was less inbound travel during that period.

## PPI Information & Communication

Price reference = January 2019 | Index reference = January 2019

### KEY FIGURES 2023, Q4 — PPI FOR INFO & COMM

Tab 12: Monthly & Month on month

Month	PPI –Info & Comm.		% Change month-on-month
	2022	2023	
Oct	69.81	65.17	-6.64
Nov	70.12	64.61	-7.87
Dec	70.30	64.68	-8.00

In 2023 quarter 4 (Q4), the Producer Price Index for Info & Comm. sector experienced fluctuations. The prices remained low in all three months of Q4 compared to 2022 (Tab 12). The month-on-month growth rate in December 2023 was at – 8.00%.

Tab13: Monthly PPI and Percentage Change

Month	PPI– Info & Comm	% Change over previous month	% Change - month on month
Oct-22	69.81	-0.23	-5.98
Nov-22	70.12	0.45	-6.35
Dec-22	70.30	0.25	-4.29
Jan-23	69.68	-0.87	-4.00
Feb-23	72.29	3.73	-0.75
Mar-23	72.63	0.47	-0.08
Apr-23	72.46	-0.23	-3.56
May-23	67.57	-6.76	-10.19
Jun-23	69.10	2.28	-6.25
Jul-23	67.06	-2.95	-7.80
Aug-23	64.92	-3.20	-6.49
Sep-23	66.79	2.88	-4.55
Oct-23	65.17	-2.42	-6.64
Nov-23	64.61	-0.86	-7.87
Dec-23	64.68	0.11	-8.00

### LONG TERM TREND-Info & Comm.

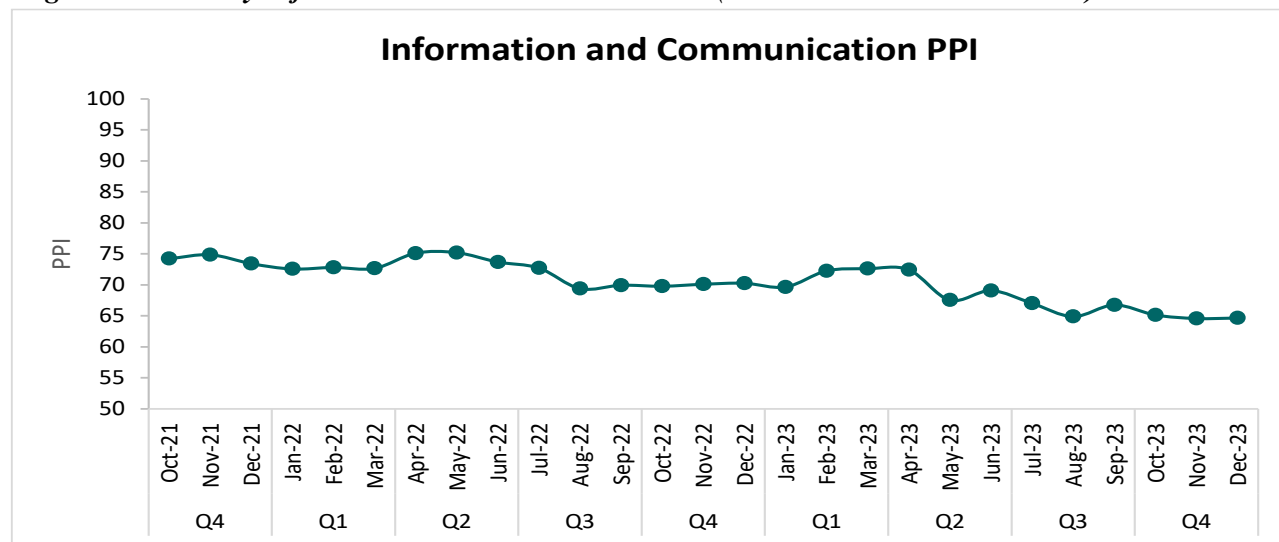
Figure 11 below illustrates the monthly changes in Information and Communication PPI over the past two years. The monthly indices experienced an overall declining trend since March 2021, with varying degrees of fluctuations over the months.

The Communication PPI trend is affected by promotional offers and seasonal rates provided to customers by the companies, usage of data and services, as well as the impact of government regulation which came into effect during quarter 4 of 2021.

This sector consists of broadcasting and telecommunication. The Information & Communication PPI is mainly influenced by changes in prices of telecommunication services.

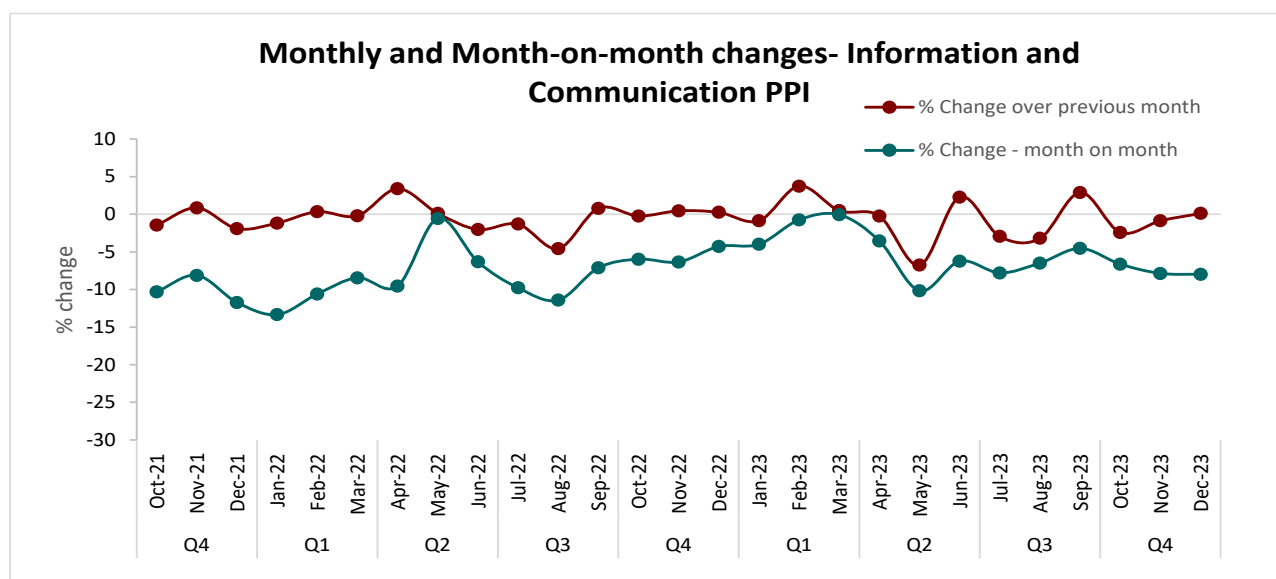
### PRICE MOVEMENT IN INFO & COMM. SECTOR-(Oct 2021–Dec 2023)

Figure 11: Monthly Information & Communication PPI (October 2021-December 2023)



## Information and Communication

Figure 12: PPI – Information & Communication Sector PPI (October 2021-December 2023)



The Figure 12 and Table 13, shows the monthly and month-on-month changes in prices of Information and Communication sector during the past two years.

The monthly price has had a significant decrease in October, at  $-2.42\%$ . The monthly prices also fluctuated in November and December at  $-0.86\%$ ,  $+0.11\%$ , respectively. These changes occur due to changes in promotional offers provided by the communication outlets.

Between October 2021 and December 2023, the monthly information and communication PPI growth peaked in February 2023. The monthly growth was lowest in May 2023 coinciding with Ramadan and Eid season.

The month-on-month indices experienced some fluctuations between October to December 2023 at  $-6.64\%$ ,  $-7.87\%$  and  $-8.00\%$  respectively. This indicates that prices were relatively higher during 2022, quarter 4 compared to the current year.

Throughout the past two years, the month-on-month prices of information and communication sector remained negative, indicating prices are lower compared to the corresponding period in the previous year.

The communication sector prices are expected to vary over time due to changes in promotional offers and consumer behaviour.

## PPI Education

Price reference =2018 | Index reference = December 2018

### KEY FIGURES 2023 , Q4 — PPI FOR EDUCATION

Tab14: Monthly & Month on month change

Month	PPI -Education		% Change month-on-month
	2022	2023	
Oct	117.18	123.77	5.63
Nov	117.18	123.77	5.63
Dec	117.18	123.77	5.63

Tab 15: Monthly PPI - Percentage Change

Month	PPI- Education	% Change over previous month	% Change - month on month
Oct-22	117.18	0.00	10.08
Nov-22	117.18	0.00	10.08
Dec-22	117.18	0.00	10.08
Jan-23	118.12	0.80	10.63
Feb-23	118.14	0.02	10.57
Mar-23	118.14	0.00	10.57
Apr-23	122.96	4.08	15.08
May-23	122.96	0.00	15.08
Jun-23	122.96	0.00	15.08
Jul-23	123.03	0.06	15.15
Aug-23	123.77	0.60	5.63
Sep-23	123.77	0.00	5.63
Oct-23	123.77	0.00	5.63
Nov-23	123.77	0.00	5.63
Dec-23	123.77	0.00	5.63

In 2023, quarter 4 (Q4), the PPI for Education sector remained unchanged. The month-on-month prices between December 2022 and 2023 is at +5.63% (Tab 14). Education sector prices usually change at the beginning of new year or academic year.

### LONG TERM TREND-Education

Figure 13 below illustrates the monthly and month-on-month changes in Education PPI over the past two years.

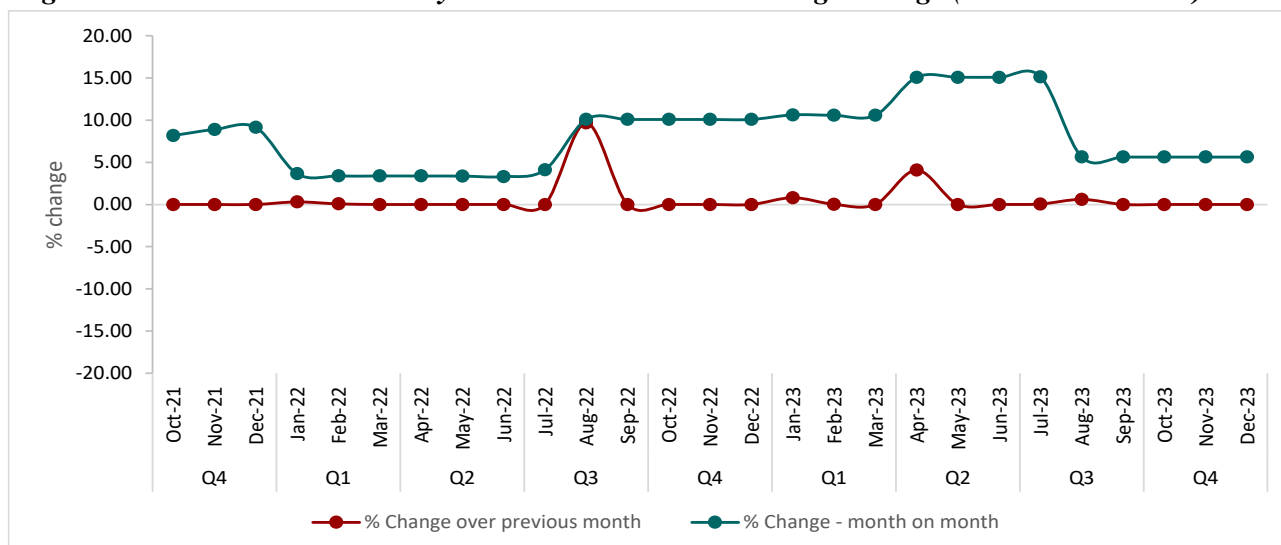
The month-on-month fluctuations prior to January 2022 signify the result of frequent price changes during Covid-19, until prices stabilized after February 2021.

The highest monthly change occurred in August 2022 at +9.67% with the start of new academic year, while the highest month-on-month change occurred in April 2023 at +15.08% due to change in government rates in some institutions.

Since January 2022, prices have stabilized. However, prices are expected to increase during new year, new academic year, new college terms or due to policy changes.

### PRICE MOVEMENT IN EDUCATION SECTOR-(Oct 2021–Dec 2023)

Figure 13: PPI Education: Monthly & Month-on-month Percentage Change (Oct 2021-Dec 2023)



## Education Level

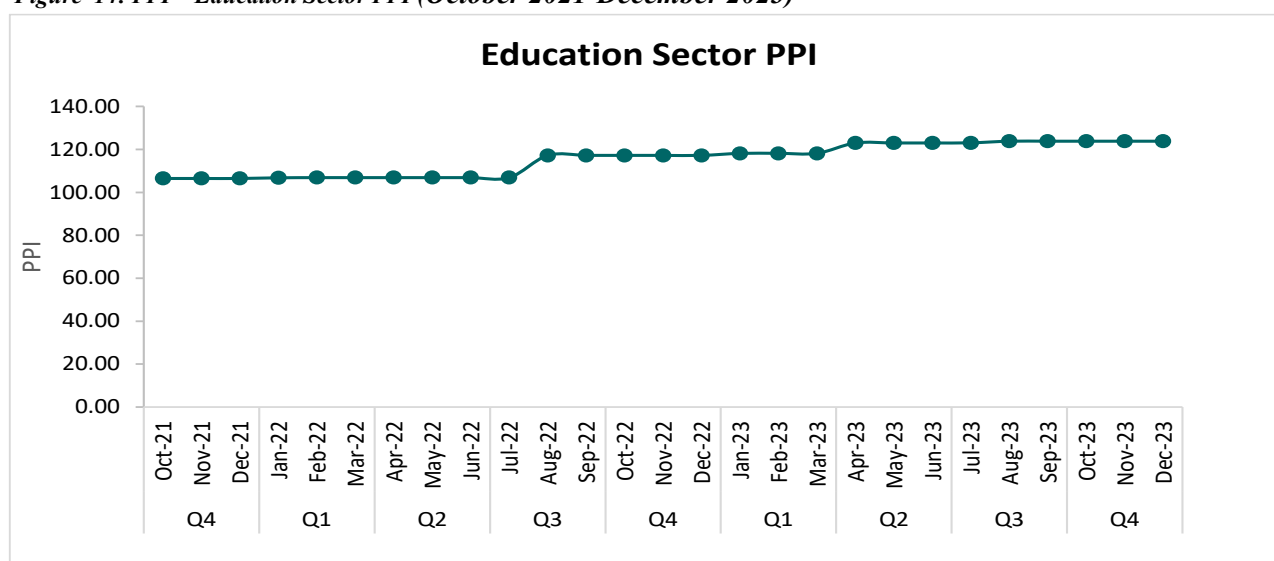
**Tab 16: PPI -Education Levels, and Month on month percentage change**

Education levels	Dec-22	Dec-23	% Change 2022-2023
Education	117.18	123.77	5.63
Pre-primary and primary education	131.22	135.04	2.92
General secondary education	131.70	179.16	36.04
Higher Education	102.00	102.00	0.00

As illustrated in Table 16, over the twelve months, the overall education PPI increased by +5.63%.

The month-on-month prices have been constant for all education levels since August 2023. The general secondary education experienced the highest change (36.04%) while higher education is at 0.00%.

**Figure 14: PPI – Education Sector PPI (October 2021-December 2023)**



**Figure 15: PPI – Preprimary and Primary Education Index (October 2021-December 2023)**

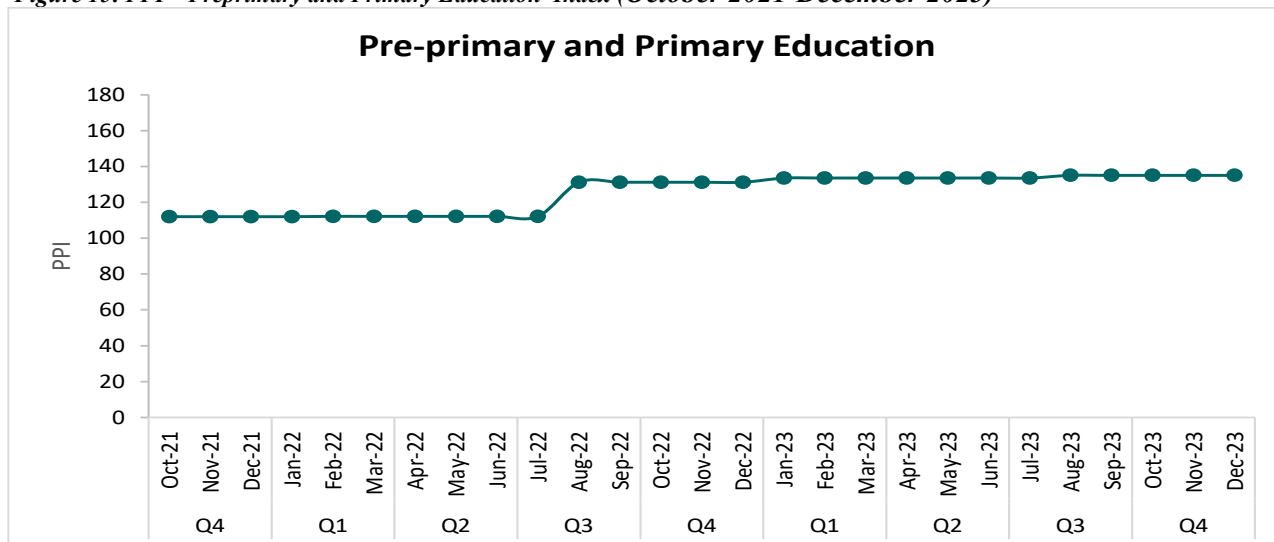


Figure 15, shows that the Producer Price Index for pre-primary and primary education usually change at the beginning of academic year. The highest monthly growth rate occurred in August 2022 at +16.98%, when several educational institutions increased their prices at the beginning of the new academic year. The monthly prices for pre-primary and primary education increased slightly in August 2023 at +1.10%, and remains constant since then.

## Education Level

**Figure 16: PPI – General Secondary Education Index (October 2021-December 2023)**

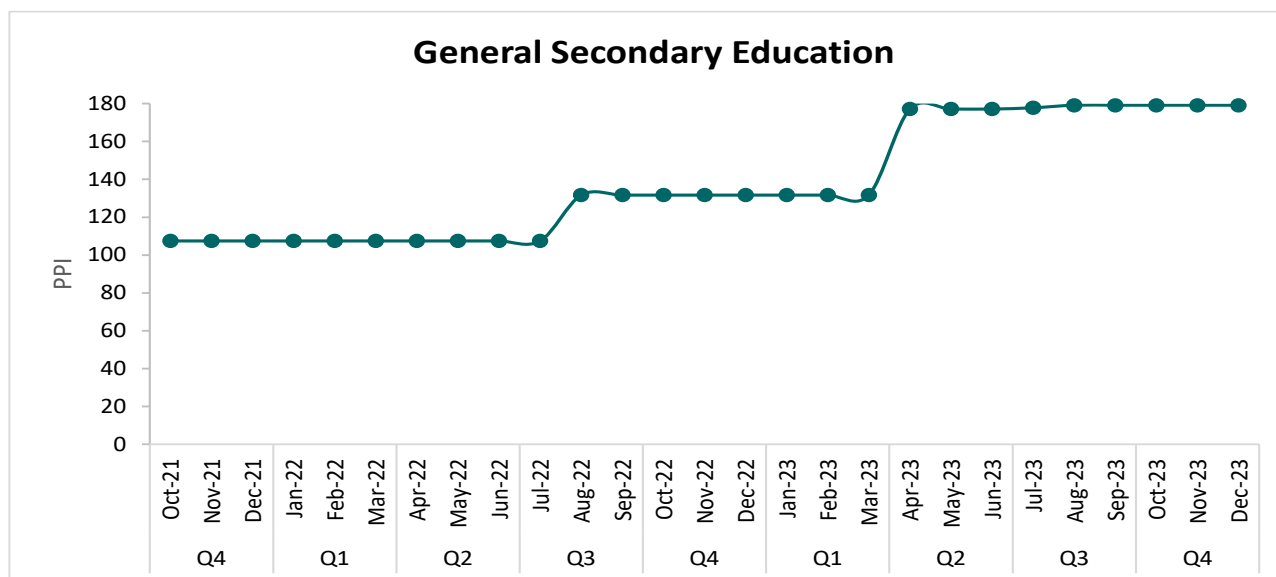


Figure 16, illustrates prices for general secondary education. It mainly changes once a year. During 2023, quarter 4, both monthly and quarterly prices remained unchanged at the same level as in quarter 3. The monthly growth rate during the past two years was highest in April 2023 at +34.50%, while the month-on-month prices reached the peak in July 2023 at +65.40%. However, it decreased to +36.04% in August 2023 and remained unchanged until December.

**Figure 17: PPI – Higher Education Index (October 2021-December 2023)**

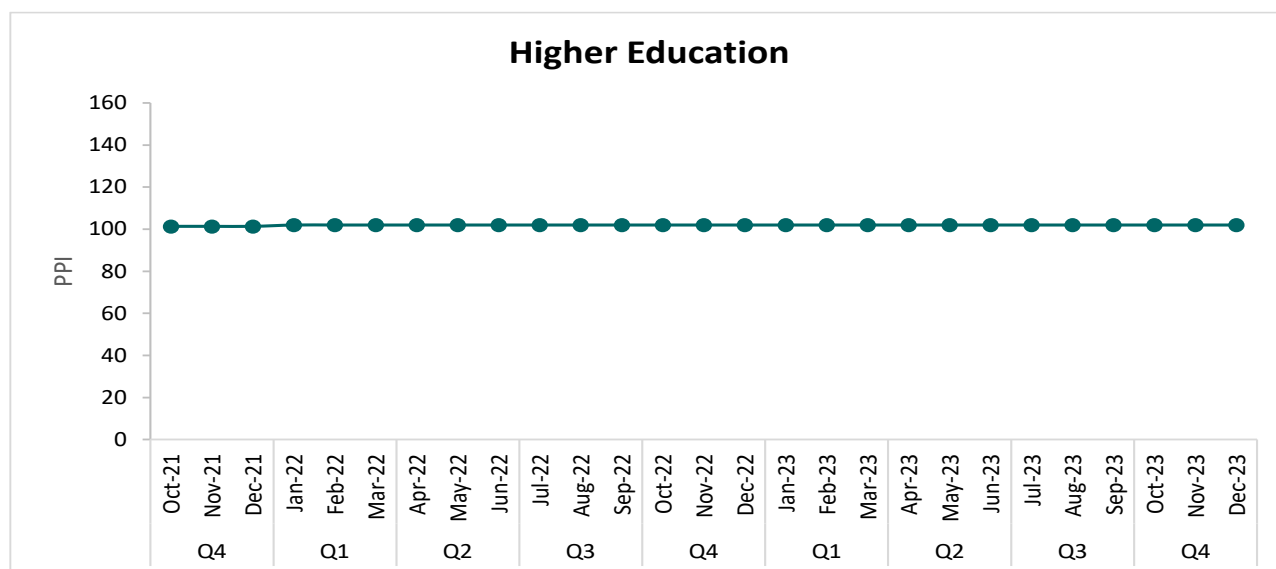


Figure 17 illustrates prices of higher education. The higher education prices have remained constant since January 2022. The month-on-month change of 0.00% in December 2023 indicates that the prices were at the same level during the year.

The higher education level has had the most steady prices since 2019. In July 2020, higher education prices returned to the pre-COVID level. Unlike pre-primary and primary, and secondary education levels, higher education institutions do not regularly revise their prices. Thus prices may remain constant for a relatively long time.

## Future plan for PPI

The existing PPIs will be expanded in the future. Tourism PPI will be expanded by adding guest houses and vessels categories. This will provide a better estimate of overall tourism PPI. The Information and Communication PPI would be expanded by adding more disaggregated levels, while maintaining the confidentiality of data. The MBS aims at publishing the index at programming and broadcasting, and telecommunication levels once sufficient data is available.

In the long-run, the MBS intends to expand PPI by including Transportation, Fisheries, Manufacturing and Health sectors.

## What is Producer Price Index

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

The PPI provides a weighted average of price change in a group of products between one time period and another. The average price change over time cannot be directly observed and must be estimated by measuring actual prices at different points in time. Price index numbers are compiled from the collected price observations through time. PPI is an index designed to measure the average change in the price of goods and services either as they leave the place of production or as they enter the production process.

PPI with detailed industry data will serve as a leading indicator of price change in the economy. The PPI enables business owners to make a comparison of trends in their own business with those of the industry group. It can be used as an escalator to index long-term contracts for goods and services. In this case, the PPI can be used to adjust the value of the monetary amounts stipulated in the goods and services based on the increase or decrease in the level of a specific index. Additionally, PPI could be used as an important tool during the design and formulation of policies and analysis of inflation by the Maldives Monetary Authority and other governmental ministries

Price instability inherently introduces ambiguity into economic analysis and decision making, so the main use of PPI relate to efforts to reduce the uncertainty. PPI is used as a short-term indicator of inflationary trends in a wide spectrum of countries. It is also used in current cost accounting, indexation in legal contracts and as a national accounts deflator. Furthermore, it is used by researchers as well as the business community as an analytical tool to understand the situation of business.

The PPI does not represent prices at the consumer level - this is left to the Consumer Price Index (CPI). CPI is compiled on a monthly basis by Maldives Bureau of Statistics (MBS) and released every month.

Non-responding sample establishments are estimated by imputing the price changes at the establishment level or industry level. Revisions to the estimates are done upon receipts of actual reports from late respondents.

The current PPI produced by MBS is not without limitations. Those inbuilt in the system mainly arising from lack of adequate and clear information of the economic structure and players in the country, which determines the weight of the Index system and the sample frame. The limitations are stated in more detail in the methodology paper available on the website. To overcome these limitations, there is a need enhance the list of establishments in sample.

Producer' price indices are constructed from data collected through quarterly surveys of selected establishments. The establishment and product selection procedures and index calculation methods are available in the website [www.statisticsmaldives.gov.mv](http://www.statisticsmaldives.gov.mv).

## Measurement of changes in the price index

Change over previous quarter (monthly) compares the index of the month with that of the preceding month. Such comparisons measure the change in the average prices between two consecutive months. They serve as useful short- term indicators of the price movements in the non-seasonal industries.

Change over previous quarter (Quarterly) compares the index of the quarter with that of the preceding quarter. Such comparisons measure the change in the average prices between two consecutive quarters. They serve as useful short- term indicators of the price movements.

Change over same month of previous year (month on month) compares the index of the month with same month of previous year. The measure gives how an industry is growing over 12 months. It reduces the seasonality effects in the indices.

## Notes

### FORTHCOMING ISSUES

**Issue (monthly)**

January - March 2024

**Release date**

31 May 2024

### ROUNDING

Any discrepancies between totals and sum of components in this publication are due to rounding.

### ABBREVIATIONS

MBS

Maldives Bureau of Statistics

PPI

Producer Price Index

IMF

International Monetary Fund

SUT

Supply and Use Table

CPI

Consumer Price Index

### DEFINITIONS

Monthly changes:

The monthly changes compare prices of each month with that of the preceding month. This is also referred to as change over previous month.

Month-on-month changes:

The month-on-month values compare prices of each month with that of the corresponding month in the previous year. This may also be referred to as the twelve month growth rate.

### ACKNOWLEDGEMENT

The release of the new PPI was made possible through the generous support of IMF South Asia Regional Training and Technical Assistance Centre (SARTTAC). Consultant from IMF, Mr. Brian Graf guided in the formulation and compilation of the index.

The entire process of data validation, compilation and updating has been done in close collaboration with all the data providing establishments.

The quarterly Producer price Index is compiled by Ms. Sajida Ahmed and Ms. Lizama Faheem; Industry Weights were developed by Ms. Aishath Hassan and Ms. Mariyam Shadeena; Publication report was prepared by Ms. Sajida Ahmed and Ms. Lizama Faheem and methodology paper was reviewed by Mr. Brian Graf.

The PPI development process was carried out under overall technical support and guidance from Mr. Brian Graf and the supervision of senior management of MBS- Ms. Aishath Shahuda and Ms. Aishath Hassan. All their valuable services are gratefully acknowledged.

The support rendered by all staff of 'National Accounts and Economics Statistics Division' are appreciable.

## List of PPI tables

The following tables are available in excel format in the website below this publication file:

1. Overall utility, electricity and water supply sectors: January 2019-June 2023

Monthly PPI, monthly and month-on-month percentage changes

Quarterly PPI, quarterly and quarter-on-quarter percentage changes

Annual PPI, year-on-year percentage changes

2. Construction Sector: January 2019-June 2023

Monthly PPI, monthly and month-on-month percentage changes

Quarterly PPI, quarterly and quarter-on-quarter percentage changes

Annual PPI, year-on-year percentage changes

3. Tourism sector (resorts): January 2019-June 2023

Monthly PPI, monthly and month-on-month percentage changes

Quarterly PPI, quarterly and quarter-on-quarter percentage changes

Annual PPI, year-on-year percentage changes

4. Information and communication sector: January 2019–June 2023

Monthly PPI, monthly and month-on-month percentage changes

Quarterly PPI, quarterly and quarter-on-quarter percentage changes

Annual PPI, year-on-year percentage changes

5. Education sector: December 2018-June 2023

Monthly PPI, monthly and month-on-month percentage changes

Quarterly PPI, quarterly and quarter-on-quarter percentage changes

Annual PPI, year-on-year percentage changes

There will be a specific sheet for each sector. The monthly, quarterly and annual tables are in the same sheet with monthly tables to the left, annual tables to the right and quarterly tables at the center.

## Appendix 1

**Utility-Electricity & Water- PPI, Percentage changes over previous month & month-on-month**

Producer Price Index (Utility: Electricity, Water and Waste Management) - Price reference = Jan 2019																											
	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Utility	98.25	98.47	98.95	97.64	99.23	100.18	100.96	100.82	99.45	98.67	98.06	97.85	98.50	98.47	98.40	98.72	99.08	107.01	108.43	107.01	106.81	106.16	106.91	105.93	105.77	105.87	106.49
Electricity	99.76	99.20	98.97	99.69	100.24	101.08	101.89	101.72	100.18	99.26	98.45	98.12	99.00	98.96	98.83	99.38	99.83	102.52	103.99	102.45	102.17	101.60	102.41	101.21	100.90	100.96	101.79
Water supply	91.46	95.06	98.68	88.38	94.78	96.40	97.20	97.17	96.19	95.89	95.98	96.21	96.02	96.03	96.24	96.01	96.09	96.67	98.17	96.96	97.02	95.93	96.57	96.31	96.75	97.07	96.90
PPI (Utility: Electricity, Water and Waste Management) - Percentage Change over previous month.																											
	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Utility	-1.54	0.22	0.49	-1.33	1.64	0.96	0.77	-0.13	-1.36	-0.78	-0.62	-0.22	0.66	-0.03	-0.07	0.32	0.36	8.01	1.32	-1.31	-0.19	-0.61	0.71	-0.92	-0.15	0.10	0.58
Electricity	-0.66	-0.56	-0.23	0.73	0.55	0.84	0.80	-0.16	-1.51	-0.92	-0.82	-0.33	0.89	-0.04	-0.13	0.56	0.45	2.70	1.43	-1.48	-0.27	-0.57	0.80	-1.17	-0.31	0.06	0.82
Water supply	-5.78	3.94	3.81	-10.44	7.24	1.71	0.83	-0.02	-1.02	-0.31	0.10	0.24	-0.20	0.02	0.22	-0.25	0.09	0.60	1.55	-1.23	0.07	-1.12	0.67	-0.27	0.46	0.33	-0.17
PPI (Utility: Electricity, Water and Waste Management) - Percentage Change-month on month																											
	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Utility	-0.82	-0.09	0.24	-0.52	0.12	0.45	1.21	-0.79	-0.42	-1.60	-1.85	-1.95	0.25	-0.01	-0.56	1.11	-0.16	6.82	7.40	6.14	7.40	7.59	9.03	8.26	7.38	7.52	8.22
Electricity	0.41	0.40	-0.09	1.41	0.62	0.87	1.18	-0.54	-0.30	-1.92	-2.21	-2.29	-0.76	-0.24	-0.14	-0.31	-0.41	1.42	2.06	0.72	1.99	2.35	4.02	3.15	1.92	2.02	3.00
Water supply	-6.32	-2.21	1.71	-8.94	-2.04	-1.29	1.63	-2.04	-1.03	-0.55	-0.67	-0.89	4.98	1.02	-2.47	8.63	1.39	0.28	1.00	-0.22	0.87	0.04	0.61	0.10	0.76	1.08	0.68

\*Jan 2019-Jun 2023 electricity figures have been updated during September 2023 publication; additional update was made on Jan 2023-March 2023 utility figures

na: Not available

For Quarterly and Annual estimates, scroll to the right

Source: Maldives Bureau of Statistics, Ministry of Housing, Land and Urban Development

## Appendix 2

**Construction PPI, Percentage changes over previous month & month-on-month**

Producer Price Index Construction- Price reference = Jan 2019		Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	
Construction		117.74	117.83	117.87	121.30	121.35	121.39	123.21	123.28	123.33	125.24	125.28	125.33	127.37	127.46	127.54	138.09	138.12	138.17	140.48	140.48	140.49	140.49	140.49	140.50	140.67	141.10	141.11	
Building Construction		118.93	119.05	119.11	120.96	121.02	121.08	123.51	123.60	123.66	126.21	126.27	126.33	129.05	129.16	129.28	132.00	132.05	132.11	135.19	135.19	135.20	135.20	135.20	135.21	135.44	136.02	136.03	
Road Construction		114.16	114.16	114.16	122.33	122.33	122.33	122.33	122.33	122.33	122.33	122.33	122.33	122.33	122.33	122.33	156.36	156.36	156.36	156.36	156.36	156.36	156.36	156.36	156.36	156.36	156.36	156.36	156.36
<b>PPI Construction - Percentage Change over previous month.</b>																													
Construction		2.85	0.08	0.03	2.91	0.04	0.04	1.50	0.05	0.04	1.55	0.04	0.04	1.63	0.07	0.07	8.27	0.02	0.03	1.70	0.00	0.00	0.00	0.00	0.00	0.12	0.31	0.01	
Building Construction		3.80	0.10	0.05	1.55	0.05	0.05	2.00	0.07	0.05	2.06	0.05	0.05	2.15	0.09	0.09	2.11	0.03	0.05	2.37	0.00	0.00	0.00	0.00	0.01	0.17	0.43	0.01	
Road Construction		0.00	0.00	0.00	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>PPI Construction - Percentage Change-month on month</b>																													
Construction		7.99	8.04	8.04	7.82	7.81	7.82	7.83	7.85	7.86	9.48	9.48	9.48	8.18	8.17	8.21	13.84	13.83	13.82	14.04	13.98	13.94	12.18	12.14	12.10	10.44	10.71	10.64	
Building Construction		8.80	8.87	8.87	8.05	8.04	8.04	8.05	8.08	8.09	10.25	10.26	10.26	8.51	8.49	8.54	9.13	9.11	9.11	9.49	9.42	9.37	7.13	7.07	7.03	4.95	5.31	5.23	
Road Construction		5.54	5.54	5.54	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	27.82	27.82	27.82	27.82	27.82	27.82	27.82	27.82	27.82	27.82	27.82	27.82	27.82

April-June 2023 values have been revised in 2023 Q3

na: Not available

For Quarterly and Annual estimates, scroll to the right

Source: Maldives Bureau of Statistics, Ministry of Housing, Land and Urban Development

## Appendix 3

### *Resort PPI - Percentage changes over previous month and month-on-month*

*Resort Index Reference = January 2019*

Year	Month	Resort PPI	% change over previous month	Percent change month-on-month
<b>2019</b>	Jan	100		
	Feb	99.51	-0.49	na
	Mar	98.51	-1.00	na
	Apr	95.15	-3.41	na
	May	70.42	-25.99	na
	Jun	67.94	-3.52	na
	Jul	70.70	4.06	na
	Aug	73.83	4.43	na
	Sep	71.38	-3.32	na
	Oct	75.48	5.75	na
	Nov	86.12	14.09	na
	Dec	94.96	10.26	na
<b>2020</b>	Jan	103.57	9.07	3.57
	Feb	100.80	-2.68	1.30
	Mar	100.13	-0.66	1.64
	Apr	100.13	0.00	5.23
	May	46.50	-53.56	-33.97
	Jun	46.50	0.00	-31.56
	Jul	70.96	52.60	0.37
	Aug	75.56	6.49	2.34
	Sep	72.79	-3.67	1.98
	Oct	77.88	6.99	3.18
	Nov	84.53	8.54	-1.84
	Dec	87.40	3.39	-7.96
<b>2021</b>	Jan	96.29	10.17	-7.03
	Feb	99.23	3.05	-1.56
	Mar	98.49	-0.74	-1.64
	Apr	83.55	-15.18	-16.56
	May	70.04	-16.17	50.62
	Jun	66.41	-5.19	42.81
	Jul	69.36	4.46	-2.25
	Aug	74.09	6.82	-1.94
	Sep	73.25	-1.14	0.63
	Oct	78.51	7.18	0.80
	Nov	89.01	13.38	5.30
	Dec	96.62	8.55	10.55
<b>2022</b>	Jan	107.56	11.32	11.70
	Feb	103.35	-3.91	4.15
	Mar	103.11	-0.23	4.69
	Apr	101.20	-1.85	21.13
	May	75.55	-25.34	7.88
	Jun	71.03	-5.99	6.97
	Jul	71.92	1.26	3.69
	Aug	75.88	5.50	2.41
	Sep	74.51	-1.80	1.73
	Oct	81.07	8.80	3.27
	Nov	92.85	14.52	4.31
	Dec	98.66	6.26	2.11
<b>2023</b>	Jan	110.34	11.84	2.59
	Feb	110.04	-0.28	6.47
	Mar	108.00	-1.85	4.75
	Apr	95.11	-11.94	-6.02
	May	77.33	-18.69	2.35
	Jun	76.11	-1.58	7.15
	Jul	77.56	1.91	7.84
	Aug	81.32	4.85	7.18
	Sept	79.53	-2.21	6.73
	Oct	87.18	9.62	7.53
	Nov	98.91	13.46	6.53
	Dec	103.64	4.78	5.05

**Note:** *na: Not available*

**Source:** Maldives Bureau of Statistics

Ministry of Housing, Land and Urban Development

## Appendix 4

### Info & Comm. PPI - Percentage changes over previous month and month-on-month

Info & Comm. Index Reference = January 2019

Year	Month	Information & Communication PPI	% change over previous month	Percent change month-on-month
<b>2019</b>	Jan	100		
	Feb	95.43	-4.57	na
	Mar	98.17	2.87	na
	Apr	113.61	15.73	na
	May	96.60	-14.97	na
	Jun	94.13	-2.56	na
	Jul	90.02	-4.36	na
	Aug	93.19	3.52	na
	Sep	89.27	-4.21	na
	Oct	92.83	3.99	na
	Nov	95.44	2.81	na
	Dec	95.98	0.57	na
<b>2020</b>	Jan	95.26	-0.76	-4.74
	Feb	94.97	-0.30	-0.49
	Mar	87.39	-7.98	-10.98
	Apr	84.12	-3.74	-25.96
	May	87.92	4.52	-8.99
	Jun	84.03	-4.43	-10.73
	Jul	85.90	2.23	-4.58
	Aug	83.47	-2.83	-10.43
	Sep	82.26	-1.45	-7.85
	Oct	82.79	0.65	-10.81
	Nov	81.50	-1.56	-14.60
	Dec	83.21	2.10	-13.31
<b>2021</b>	Jan	83.77	0.67	-12.06
	Feb	81.48	-2.72	-14.20
	Mar	79.39	-2.56	-9.15
	Apr	83.08	4.65	-1.23
	May	75.66	-8.93	-13.94
	Jun	78.69	4.01	-6.35
	Jul	80.63	2.46	-6.14
	Aug	78.38	-2.79	-6.10
	Sep	75.34	-3.87	-8.40
	Oct	74.25	-1.46	-10.32
	Nov	74.88	0.85	-8.12
	Dec	73.45	-1.91	-11.73
<b>2022</b>	Jan	72.59	-1.18	-13.34
	Feb	72.84	0.34	-10.61
	Mar	72.68	-0.21	-8.45
	Apr	75.14	3.38	-9.56
	May	75.23	0.12	-0.57
	Jun	73.71	-2.03	-6.34
	Jul	72.74	-1.31	-9.78
	Aug	69.42	-4.56	-11.42
	Sep	69.97	0.79	-7.13
	Oct	69.81	-0.23	-5.98
	Nov	70.12	0.45	-6.35
	Dec	70.30	0.25	-4.29
<b>2023</b>	Jan	69.68	-0.87	-4.00
	Feb	72.29	3.73	-0.75
	Mar	72.63	0.47	-0.08
	Apr	72.46	-0.23	-3.56
	May	67.57	-6.76	-10.19
	Jun	69.10	2.28	-6.25
	Jul	67.06	-2.95	-7.80
	Aug	64.92	-3.20	-6.49
	Sept	66.79	2.88	-4.55
	Oct	65.17	-2.42	-6.64
	Nov	64.61	-0.86	-7.87
	Dec	64.68	0.11	-8.00

Note: na: Not available

Source: Maldives Bureau of Statistics  
Ministry of Housing, Land and Urban Development

## Appendix 5

**Education PPI, Percentage changes over previous month & month-on-month**

Producer Price Index Education - Price reference = 2018																													
	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23		
Education	106.45	106.45	106.45	106.77	106.84	106.84	106.84	106.84	106.84	106.84	117.18	117.18	117.18	117.18	117.18	118.12	118.14	118.14	122.96	122.96	122.96	123.03	123.77	123.77	123.77	123.77	123.77	123.77	
Pre-primary and pi	111.99	111.99	111.99	111.99	112.17	112.17	112.17	112.17	112.17	112.17	131.22	131.22	131.22	131.22	131.22	133.52	133.57	133.57	133.57	133.57	133.57	133.57	133.57	135.04	135.04	135.04	135.04	135.04	135.04
General Secondary	107.49	107.49	107.49	107.49	107.49	107.49	107.49	107.49	107.49	107.49	131.70	131.70	131.70	131.70	131.70	131.70	131.70	131.70	177.14	177.14	177.14	177.80	179.16	179.16	179.16	179.16	179.16	179.16	179.16
Higher Education	101.33	101.33	101.33	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00	102.00

**Producer Price Index Education - Percentage Change over previous month.**

Producer Price Index Education - Percentage Change over previous month.																												
	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	
Education	0.00	0.00	0.00	0.30	0.07	0.00	0.00	0.00	0.00	0.00	9.67	0.00	0.00	0.00	0.00	0.80	0.02	0.00	4.08	0.00	0.00	0.06	0.60	0.00	0.00	0.00	0.00	0.00
Pre-primary and pi	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	16.98	0.00	0.00	0.00	0.00	1.75	0.04	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00
General Secondary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.50	0.00	0.00	0.37	0.77	0.00	0.00	0.00	0.00	0.00
Higher Education	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Producer Price Index Education - Percentage Change-month on month**

Producer Price Index Education - Percentage Change-month on month																												
	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	
Education	8.18	8.89	9.14	3.65	3.38	3.39	3.38	3.37	3.30	4.11	10.08	10.08	10.08	10.08	10.08	10.63	10.57	10.57	15.08	15.08	15.08	15.15	5.63	5.63	5.63	5.63	5.63	
Pre-primary and pi	20.10	21.98	22.53	7.93	7.19	7.21	7.20	7.18	7.06	7.15	17.17	17.17	17.17	17.17	17.17	19.22	19.08	19.08	19.08	19.08	19.08	19.08	2.92	2.92	2.92	2.92	2.92	2.92
General Secondary	3.67	4.12	4.59	0.91	1.17	1.15	1.12	1.11	0.91	8.21	22.51	22.51	22.51	22.51	22.51	22.51	22.51	22.51	64.79	64.79	64.79	65.40	36.04	36.04	36.04	36.04	36.04	36.04
Higher Education	0.00	0.00	0.00	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00

na: Not available

For Quarterly and Annual estimates, scroll to the right

Source: Maldives Bureau of Statistics, Ministry of Housing, Land and Urban Development