### CONSTRUCTION PRICE INDEX

(Input Cost Index for the construction of a single storey house)

### 4th Quarter 2018

#### 1. Introduction

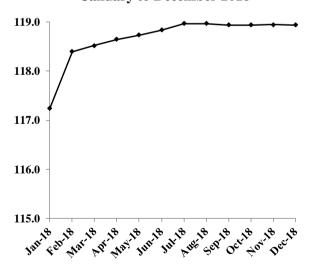
This issue of the Economic and Social Indicators presents the monthly Construction Price Index (residential) for the fourth quarter of 2018 with second quarter of 2009 as base period. Figures showing the evolution of the index during the past twelve months are also included.

The methodology used for compiling the index is given in the annexed technical notes. Figures have been rounded to one or two decimal places although they have been calculated to many decimal places.

# 2. Evolution of the Construction Price Index (January to December 2018)

The Construction Price index which stood at 117.2 in January 2018, jumped to 118.4 in February 2018 and maintained an upward trend to reach 119.0 in July 2018. In August 2018, the index remained at 119.0 before dropping to 118.9 in September 2018. No further change was observed up to December 2018.

Chart 1: Construction Price Index January to December 2018



# 3. Changes in the Construction Price Index (October to December 2018)

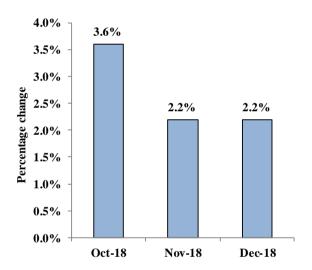
The Construction Price Index, which stood at 118.9 at the end of September 2018 remained unchanged in October 2018 mainly explained by increases of 0.2% and 0.1% in the prices of timber carpentry and

cement respectively, offset by decreases in the prices of steel bars (0.3%) and sanitary installation (0.2%).

No change was registered in the overall index in November and December 2018.

Compared to the corresponding months of the previous year, the index increased by 3.6% in October 2018 and 2.2% in November and December 2018. (Table 1.3).

Chart 2: Percentage change from corresponding month of previous year



### 4. Changes by Input Categories

Changes by input categories are shown in Tables 1.1 to 1.5.

During the fourth quarter of 2018, no change was registered in the "Labour", "Hire of Plant", "Materials" and "Transport" sub-indices.

The net monthly contributions of the input categories to the index during the period January to December 2018 are shown in Table 1.4.

Quarterly averages of the monthly indices by input category and the percentage change from quarter to quarter are shown in Table 1.5.

### 5. Changes by Work Category

Changes by work category are shown in Tables 2.1 to 2.5.

During the month of October 2018, the increases in the prices of timber carpentry (0.2%) and cement (0.1%) resulted in an increase of 0.2% in the "Setting up" work category. The "Reinforcement" work category contracted by 0.2% due to lower prices of steel bars. The increase in the prices of timber carpentry resulted in an increase of 0.1% in the "Formwork" work category. The "Metal openings" work category grew by 0.1% as a result of 0.1% increase in the prices of metal bars. The "Painting" work category increased by 0.1% following a 0.1% increase in the prices of paint. The "Plumbing and drainage" work category decreased by 0.1% following a contraction of 0.2% in the prices of sanitary installation.

In November 2018, the "Metal openings" work category increased by 0.1% as a result of increases in the prices of galvanised metal sheet (0.2%).

In December 2018, the "Plumbing and drainage" work category decreased by 0.1% following contractions of 0.2% and 0.1% in the prices of sanitary installation and plumbing materials respectively.

Table 2.4 shows the net monthly contributions of the work categories to the index since January 2018.

Quarterly averages of the monthly indices by work category and the percentage changes from quarter to quarter are shown in Table 2.5.

### 6. Past Trends

Table 3.1 summarises the monthly indices, the quarterly and yearly averages as well as the percentage changes in the yearly average since 2005. The base period for the calculation of the index as from 2002 up to the first quarter of 2009 is the fourth quarter of 2001. As from April 2009 the base period used is the second quarter of 2009.

The series are not strictly comparable because of different base periods. However, for some particular purposes, comparison between the series may be necessary. A chain linked series with base period second quarter 2009 has been worked out and is given in Table 3.2.

### 7. Review of Construction Price Index weights

The next issue of Economic and Social Indicators on Construction Price Index, to be released in April 2019, will introduce a new series of indices with the first quarter of 2018 as base period. A review of the specifications and weights is necessary to take into account changes with respect to both inputs and technology that have occurred since 2009.

Statistics Mauritius Ministry of Finance and Economic Development Port Louis January 2019

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(Base: 2nd Quarter 2009 = 100)

Table 1.1: Monthly sub-indices by input category, January to December 2018

Input Categories	Weight						20	18					
Input Categories	weight	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LABOUR	28.2	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4	125.4
HIRE OF PLANT	3.3	107.5	107.5	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
MATERIALS:	64.2	114.7	116.5	116.7	116.9	117.0	117.2	117.4	117.4	117.3	117.3	117.3	117.3
Hardcore (remplissage)	1.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8
Cement	12.7	120.5	127.9	128.7	128.7	128.7	128.7	128.7	128.7	128.7	128.8	128.8	128.8
Sand	4.2	127.3	127.3	127.3	127.3	127.3	127.3	127.3	127.3	127.3	127.3	127.3	127.3
Aggregate	3.4	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0
Block	5.2	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8
Steel bars (armature)	10.6	94.3	95.9	95.9	96.4	97.1	98.0	98.8	98.8	98.5	98.2	98.2	98.2
Galvanised corrugated cast iron sheeting	0.6	97.7	97.7	97.1	97.1	97.1	97.1	98.4	98.4	98.4	98.4	98.4	98.4
Timber: (a) Carpentry	3.9	112.9	113.3	113.3	115.2	115.1	115.1	115.4	115.4	115.3	115.6	115.6	115.6
(b) Joinery	1.6	114.6	114.6	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8
Aluminium openings	4.1	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9
Metal openings	2.7	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.5	108.5	108.6	108.8	108.8
Ceramic tiles	0.8	121.4	121.4	121.4	121.4	121.4	121.4	121.4	121.4	121.4	121.4	121.4	121.4
Adhesive	1.7	106.6	106.6	106.7	106.7	106.7	106.7	106.7	106.7	107.2	107.2	107.2	107.2
Paint	2.5	129.9	130.4	130.4	130.4	131.2	131.2	132.1	132.1	132.1	132.2	132.2	132.2
Plumbing	1.5	103.7	103.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7
Sanitary installation	2.2	113.9	113.9	113.9	113.9	113.9	113.9	114.0	114.0	114.0	113.8	113.8	113.6
Electrical installation	4.7	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.6	110.6	110.6	110.6	110.6
TRANSPORT	4.3	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1
Total	100.0	117.2	118.4	118.5	118.6	118.7	118.8	119.0	119.0	118.9	118.9	118.9	118.9

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Table 1.2: Percentage change from previous month by input category, January to December 2018

Innut Catagorias	Weight					Percentag	e change f	rom previ	ous month	l			
Input Categories	weight	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18
LABOUR	28.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HIRE OF PLANT	3.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MATERIALS:	64.2	0.1	1.6	0.1	0.2	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0
Hardcore (remplissage)	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cement	12.7	0.0	6.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Sand	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aggregate	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Block	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Steel bars (armature)	10.6	0.6	1.7	0.0	0.5	0.7	1.0	0.8	0.0	-0.3	-0.3	0.0	0.0
Galvanised corrugated cast iron sheeting	0.6	0.0	0.0	-0.6	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
Timber: (a) Carpentry	3.9	0.0	0.3	0.0	1.7	-0.1	0.0	0.3	0.0	-0.1	0.2	0.0	0.0
(b) Joinery	1.6	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aluminium openings	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Metal openings	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.0
Ceramic tiles	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adhesive	1.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Paint	2.5	0.1	0.3	0.0	0.0	0.7	0.0	0.6	0.0	0.0	0.1	0.0	0.0
Plumbing	1.5	-0.1	0.0	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Sanitary installation	2.2	0.0	0.0	-0.1	0.0	0.0	0.1	0.1	0.0	0.0	-0.2	0.0	-0.2
Electrical installation	4.7	-0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TRANSPORT	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	100.0	0.8	1.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 1.3: Percentage change from corresponding month of previous year by input category, January to December 2018

Innut Catagories	Wataba			P	ercentage	change fro	om corresp	onding m	onth of pr	evious yea	ır		
Input Categories	Weight	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18
LABOUR	28.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
HIRE OF PLANT	3.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
MATERIALS:	64.2	2.5	4.1	4.3	4.3	4.4	4.5	4.6	4.6	4.4	4.4	2.3	2.3
Hardcore (remplissage)	1.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	0.0	0.0
Cement	12.7	0.0	6.2	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.0	7.0	7.0
Sand	4.2	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	0.0	0.0
Aggregate	3.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	0.0	0.0
Block	5.2	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	0.0	0.0
Steel bars (armature)	10.6	2.4	4.2	3.4	4.0	4.7	5.8	6.3	6.3	5.2	4.8	4.8	4.8
Galvanised corrugated cast iron sheeting	0.6	0.0	0.0	-0.6	-0.6	-0.6	-0.6	0.7	0.7	0.7	0.7	0.7	0.7
Timber: (a) Carpentry	3.9	0.8	1.3	1.3	3.0	2.3	2.3	2.6	2.6	1.5	2.4	2.4	2.4
(b) Joinery	1.6	0.8	0.8	1.0	0.9	0.9	0.9	0.6	0.6	0.6	0.8	0.8	0.6
Aluminium openings	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Metal openings	2.7	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.4
Ceramic tiles	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Adhesive	1.7	0.5	0.5	0.7	0.7	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.6
Paint	2.5	0.1	0.4	0.4	0.4	1.1	1.1	1.7	1.7	1.7	1.8	1.8	1.8
Plumbing	1.5	0.1	0.1	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	0.9
Sanitary installation	2.2	4.1	4.1	4.3	0.0	0.0	0.1	0.1	0.1	0.1	-0.1	-0.1	-0.3
Electrical installation	4.7	-1.3	-1.4	-0.4	-0.4	-0.4	-0.4	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6
TRANSPORT	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	100.0	2.3	3.3	3.4	3.5	3.5	3.6	3.7	3.7	3.5	3.6	2.2	2.2

Table 1.4: Net monthly contributions of input categories to the index, January to December 2018

Imput Catagories	Waight						20	18					
Input Categories	Weight	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LABOUR	28.2	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HIRE OF PLANT	3.3	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MATERIALS:	64.2	0.04	1.16	0.11	0.13	0.09	0.10	0.13	0.00	-0.03	0.00	0.01	-0.01
Hardcore (remplissage)	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement	12.7	0.00	0.95	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Sand	4.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aggregate	3.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Block	5.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Steel bars (armature)	10.6	0.06	0.17	0.00	0.05	0.08	0.10	0.08	0.00	-0.03	-0.03	0.00	0.00
Galvanised corrugated cast iron sheeting	0.6	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Timber: (a) Carpentry	3.9	0.00	0.02	0.00	0.07	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00
(b) Joinery	1.6	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aluminium openings	4.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Metal openings	2.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Ceramic tiles	0.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Adhesive	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Paint	2.5	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Plumbing	1.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sanitary installation	2.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00
Electrical installation	4.7	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TRANSPORT	4.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	100.0	0.92	1.16	0.12	0.13	0.09	0.10	0.13	0.00	-0.03	0.00	0.01	-0.01

(Base: 2nd Quarter 2009 = 100)

Table 1.5: Quarterly average of monthly indices and percentage changes by input category, 1st Quarter 2018 to 4th Quarter 2018

			20	)18		%	change from	previous quar	ter
Input Categories	Weight	1st Qr	2nd Qr	3rd Qr	4th Qr	1st Qr 2018	2nd Qr 2018	3rd Qr 2018	4th Qr 2018
LABOUR	28.2	125.4	125.4	125.4	125.4	2.5	0.0	0.0	0.0
HIRE OF PLANT	3.3	107.6	107.8	107.8	107.8	0.1	0.2	0.0	0.0
MATERIALS:	64.2	116.0	117.0	117.4	117.3	1.8	0.9	0.3	0.0
Hardcore (remplissage)	1.8	123.8	123.8	123.8	123.8	1.4	0.0	0.0	0.0
Cement	12.7	125.7	128.7	128.7	128.8	4.4	2.4	0.0	0.1
Sand	4.2	127.3	127.3	127.3	127.3	1.6	0.0	0.0	0.0
Aggregate	3.4	128.0	128.0	128.0	128.0	1.9	0.0	0.0	0.0
Block	5.2	139.8	139.8	139.8	139.8	4.3	0.0	0.0	0.0
Steel bars (armature)	10.6	95.4	97.2	98.7	98.2	1.8	1.9	1.6	-0.5
Galvanised corrugated cast iron sheeting	0.6	97.5	97.1	98.4	98.4	-0.2	-0.4	1.3	0.0
Timber: (a) Carpentry	3.9	113.1	115.1	115.4	115.6	0.2	1.7	0.3	0.2
(b) Joinery	1.6	114.7	114.8	114.8	114.8	0.6	0.1	0.0	0.0
Aluminium openings	4.1	100.9	100.9	100.9	100.9	0.0	0.0	0.0	0.0
Metal openings	2.7	108.4	108.4	108.5	108.7	0.0	0.0	0.0	0.3
Ceramic tiles	0.8	121.4	121.4	121.4	121.4	0.0	0.0	0.0	0.0
Adhesive	1.7	106.6	106.7	106.9	107.2	0.0	0.1	0.1	0.3
Paint	2.5	130.2	130.9	132.1	132.2	0.3	0.6	0.9	0.1
Plumbing	1.5	104.0	104.7	104.7	104.7	0.3	0.7	0.0	0.0
Sanitary installation	2.2	113.9	113.9	114.0	113.7	0.0	0.0	0.1	-0.3
Electrical installation	4.7	110.5	110.5	110.6	110.6	-0.7	0.0	0.0	0.0
TRANSPORT	4.3	109.1	109.1	109.1	109.1	0.0	0.0	0.0	0.0
Total	100.0	118.1	118.7	119.0	118.9	1.9	0.6	0.2	0.0

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(Base: 2nd Quarter 2009 = 100)

Table 2.1: Monthly sub-indices by work category, January to December 2018

Work Categories	Weight						20:	18					
work Categories	weight	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Setting up	1.5	111.1	111.5	111.3	111.6	111.5	111.5	112.0	112.0	112.0	112.2	112.2	112.2
2. Setting out	0.5	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
3. Earthworks	3.3	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6
4. Concrete	21.3	121.8	124.8	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1	125.1
5. Reinforcement	14.6	102.8	104.0	104.0	104.3	104.9	105.6	106.1	106.1	105.9	105.7	105.7	105.7
6. Formwork (coffrage)	8.5	114.6	114.8	114.9	115.7	115.7	115.7	115.9	115.9	115.8	115.9	115.9	115.9
7. Blockwork	8.7	131.5	132.5	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6
8. Softwood joinery	1.5	120.8	120.8	121.1	121.1	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2
9. Aluminium Doors and Openings	6.0	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7
10. Metal openings	4.1	113.9	113.9	113.9	113.9	114.0	114.0	114.0	114.0	114.0	114.1	114.3	114.3
11. Rendering to wall/ceiling (crepissage)	10.4	123.4	124.7	124.9	124.9	124.9	124.9	124.9	124.9	125.0	125.0	125.0	125.0
12. Bed & screed to floor/roof	3.8	121.7	124.1	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.4	124.4	124.4
13. Tiling	1.6	120.3	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6	120.6
14. Painting	3.2	127.2	127.5	127.5	127.5	128.0	128.0	128.7	128.7	128.7	128.7	128.7	128.7
15. Plumbing and Drainage	5.0	113.1	113.1	113.4	113.4	113.4	113.4	113.5	113.5	113.5	113.4	113.4	113.3
16. Electrical installation	6.0	113.5	113.5	113.5	113.5	113.5	113.5	113.5	113.6	113.6	113.6	113.6	113.6
Total	100.0	117.2	118.4	118.5	118.6	118.7	118.8	119.0	119.0	118.9	118.9	118.9	118.9

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(Base: 2nd Quarter 2009 = 100)

Table 2.2: Percentage change from previous month by work category, January to December 2018

Wash Cotagonias	Weight					Percentag	e change f	rom previ	ous month	l			
Work Categories	Weight	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18
1. Setting up	1.5	0.4	0.4	-0.2	0.2	-0.1	0.0	0.5	0.0	0.0	0.2	0.0	0.0
2. Setting out	0.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. Earthworks	3.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. Concrete	21.3	0.6	2.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. Reinforcement	14.6	1.3	1.2	0.0	0.3	0.5	0.7	0.5	0.0	-0.2	-0.2	0.0	0.0
6. Formwork (coffrage)	8.5	0.7	0.2	0.1	0.7	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0
7. Blockwork	8.7	0.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. Softwood joinery	1.5	1.3	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. Aluminium Doors and Openings	6.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. Metal openings	4.1	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
11. Rendering to wall/ceiling (crepissage)	10.4	1.6	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
12. Bed & screed to floor/roof	3.8	0.9	1.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. Tiling	1.6	0.8	0.2	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. Painting	3.2	0.7	0.2	0.0	0.0	0.4	0.0	0.5	0.0	0.0	0.1	0.0	0.0
15. Plumbing and Drainage	5.0	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
16. Electrical installation	6.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	100.0	0.8	1.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0

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# Input Cost Index for the construction of a single storey house (Base: 2nd Quarter 2009 = 100)

Table 2.3: Percentage change from corresponding month of previous year by work category, January to December 2018

WILCA	*** • 14			Po	ercentage	change fro	om corresp	onding m	onth of pr	evious yea	ır		
Work Categories	Weight	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18
1. Setting up	1.5	1.3	1.6	1.4	1.7	1.3	1.3	1.8	1.8	1.8	2.0	1.4	1.3
2. Setting out	0.5	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.1
3. Earthworks	3.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.5	0.5
4. Concrete	21.3	2.1	4.6	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	3.3	3.3
5. Reinforcement	14.6	2.5	3.7	3.1	3.5	4.0	4.7	5.1	5.1	4.3	4.1	4.1	4.1
6. Formwork (coffrage)	8.5	1.1	1.3	1.4	2.1	1.9	1.9	2.0	2.0	1.5	1.9	1.9	1.9
7. Blockwork	8.7	9.1	9.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	1.1	1.1
8. Softwood joinery	1.5	1.4	1.5	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7
9. Aluminium Doors and Openings	6.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
10. Metal openings	4.1	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1.0	1.1	1.1
11. Rendering to wall/ceiling (crepissage)	10.4	2.0	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	2.9	2.9
12. Bed & screed to floor/roof	3.8	1.8	3.7	3.9	3.9	3.7	3.7	3.7	3.7	3.7	3.7	3.0	3.1
13. Tiling	1.6	0.8	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0
14. Painting	3.2	0.7	0.9	0.9	0.9	1.3	1.3	1.8	1.8	1.8	1.9	1.9	1.9
15. Plumbing and Drainage	5.0	2.5	2.5	2.8	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.7
16. Electrical installation	6.0	-0.4	-0.5	0.3	0.3	0.3	0.3	0.1	0.1	0.0	0.1	0.1	0.1
Total	100.0	2.3	3.3	3.4	3.5	3.5	3.6	3.7	3.7	3.5	3.6	2.2	2.2

(Base: 2nd Quarter 2009 = 100)

Table 2.4: Net monthly contributions of input categories to the index, January to December 2018

Work Categories	Weight						20	18					
work Categories	weight	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Setting up	1.5	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
2. Setting out	0.5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3. Earthworks	3.3	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4. Concrete	21.3	0.16	0.63	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5. Reinforcement	14.6	0.19	0.17	0.00	0.05	0.08	0.10	0.08	0.00	-0.03	-0.03	0.00	0.00
6. Formwork (coffrage)	8.5	0.07	0.02	0.01	0.07	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00
7. Blockwork	8.7	0.04	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. Softwood joinery	1.5	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9. Aluminium Doors and Openings	6.0	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Metal openings	4.1	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
11. Rendering to wall/ceiling (crepissage)	10.4	0.20	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
12. Bed & screed to floor/roof	3.8	0.04	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13. Tiling	1.7	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14. Painting	3.2	0.03	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00
15. Plumbing and Drainage	5.0	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01
16. Electrical installation	6.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	100.0	0.92	1.16	0.12	0.13	0.09	0.10	0.13	0.00	-0.03	0.00	0.01	-0.01

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Table 2.5: Quarterly average of monthly indices and percentage changes by input category, 1st Quarter 2018 to 4th Quarter 2018

			20	18		%	change from p	previous quart	ter
Work Categories	Weight	1st Qr	2nd Qr	3rd Qr	4th Qr	1st Qr 2018	2nd Qr 2018	3rd Qr 2018	4th Qr 2018
1. Setting up	1.5	111.3	111.5	112.0	112.2	0.8	0.2	0.4	0.2
2. Setting out	0.5	130.3	130.3	130.3	130.3	1.2	0.0	0.0	0.0
3. Earthworks	3.3	118.6	118.6	118.6	118.6	1.3	0.0	0.0	0.0
4. Concrete	21.3	123.9	125.1	125.1	125.1	2.8	0.9	0.0	0.0
5. Reinforcement	14.6	103.6	104.9	106.1	105.7	2.0	1.3	1.1	-0.4
6. Formwork (coffrage)	8.5	114.8	115.7	115.9	115.9	0.9	0.8	0.1	0.1
7. Blockwork	8.7	132.2	132.6	132.6	132.6	3.6	0.3	0.0	0.0
8. Softwood joinery	1.5	120.9	121.1	121.2	121.2	1.4	0.2	0.0	0.0
9. Aluminium Doors and Openings	6.0	107.7	107.7	107.7	107.7	0.8	0.0	0.0	0.0
10. Metal openings	4.1	113.9	114.0	114.0	114.2	0.8	0.1	0.0	0.2
11. Rendering to wall/ceiling (crepissage)	10.4	124.3	124.9	124.9	125.0	2.5	0.4	0.0	0.1
12. Bed & screed to floor/roof	3.8	123.4	124.3	124.3	124.4	2.5	0.8	0.0	0.0
13. Tiling	1.7	120.5	120.6	120.6	120.6	1.0	0.1	0.0	0.0
14. Painting	3.2	127.4	127.9	128.7	128.7	0.9	0.3	0.6	0.1
15. Plumbing and Drainage	5.0	113.2	113.4	113.5	113.3	0.7	0.2	0.1	-0.1
16. Electrical installation	6.0	113.5	113.5	113.6	113.6	0.0	0.0	0.0	0.0
Total	100.0	118.1	118.7	119.0	118.9	1.9	0.6	0.2	0.0

 Table 3.1: Construction Price Index - January 2005 to December 2018

M. A		(Base: 4th	Quarter 20	001 = 100)					(Base	:2nd Quar	ter 2009 =	100)			
Month	2005	2006	2007	2008	2009	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
January	118.7	126.7	140.7	159.0	166.0		100.3	102.8	106.7	109.8	112.6	113.8	114.2	114.6	117.2
February	122.5	127.3	140.7	159.0	166.0		100.3	104.1	106.8	110.5	112.6	113.7	113.9	114.6	118.4
March	122.5	127.3	141.2	157.9	163.5		98.8	104.5	106.8	110.4	112.6	113.9	113.8	114.6	118.5
1st Quarter	121.3	127.1	140.9	158.7	165.2		99.8	103.8	106.8	110.2	112.6	113.8	114.0	114.6	118.1
April	122.5	127.9	144.1	157.9		100.2	98.8	104.5	108.6	110.9	112.6	114.0	113.8	114.7	118.6
May	122.7	127.9	144.3	157.9		100.0	100.2	104.4	108.6	110.9	112.5	114.0	113.9	114.7	118.7
June	122.7	129.9	147.4	161.2		99.8	100.4	104.4	108.6	111.0	112.5	114.1	113.9	114.7	118.8
2nd Quarter	122.6	128.6	145.2	159.0		100.0	99.8	104.4	108.6	110.9	112.5	114.0	113.9	114.7	118.7
July	124.6	134.4	150.5	165.2		100.6	100.9	104.3	108.7	111.0	112.4	114.1	114.1	114.8	119.0
August	124.6	135.1	151.3	167.5		100.2	100.8	105.0	108.7	111.0	112.3	114.2	114.1	114.8	119.0
September	124.6	135.1	151.6	169.2		100.2	100.8	105.2	108.8	111.1	112.3	114.3	114.1	114.9	118.9
3rd Quarter	124.6	134.9	151.1	167.3		100.3	100.9	104.8	108.7	111.0	112.4	114.2	114.1	114.8	119.0
October	125.3	135.1	152.9	170.0		100.3	101.4	105.4	108.8	111.2	112.4	114.2	114.1	114.9	118.9
November	126.1	136.9	151.1	168.7		100.3	101.6	105.4	108.8	111.2	112.3	114.0	114.1	116.3	118.9
December	126.1	137.1	151.4	167.2		100.3	101.7	105.5	108.9	111.5	112.3	113.8	114.1	116.3	118.9
4th Quarter	125.8	136.4	151.8	168.6		100.3	101.6	105.4	108.8	111.3	112.3	114.0	114.1	115.8	118.9
Yearly average	123.6	131.8	147.2	163.4			100.5	104.6	108.2	110.9	112.5	114.0	114.0	115.0	118.7
% change in the yearly average	7.7	6.6	11.8	11.0		0.1	-0.1	4.1	3.5	2.4	1.4	1.4	0.0	0.8	3.2

Table 3.2: Construction Price Index - January 2005 to December 2018 (Base period 2nd Qtr 2009 = 100)

Month	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
January	73.0	77.9	86.5	97.8	102.1	100.3	102.8	106.7	109.8	112.6	113.8	114.2	114.6	117.2
February	75.3	78.3	86.5	97.8	102.1	100.3	104.1	106.8	110.5	112.6	113.7	113.9	114.6	118.4
March	75.3	78.3	86.8	97.1	100.6	98.8	104.5	106.8	110.4	112.6	113.9	113.8	114.6	118.5
1st Quarter	74.6	78.2	86.6	97.6	101.6	99.8	103.8	106.8	110.2	112.6	113.8	114.0	114.6	118.1
April	75.3	78.7	88.6	97.1	100.2	98.8	104.5	108.6	110.9	112.6	114.0	113.8	114.7	118.6
May	75.5	78.7	88.7	97.1	100.0	100.2	104.4	108.6	110.9	112.5	114.0	113.9	114.7	118.7
June	75.5	79.9	90.6	99.2	99.8	100.4	104.4	108.6	111.0	112.5	114.1	113.9	114.7	118.8
2nd Quarter	75.4	79.1	89.3	97.8	100.0	99.8	104.4	108.6	110.9	112.5	114.0	113.9	114.7	118.7
July	76.6	82.7	92.5	101.6	100.6	100.9	104.3	108.7	111.0	112.4	114.1	114.1	114.8	119.0
August	76.6	83.1	93.0	103.0	100.2	100.8	105.0	108.7	111.0	112.3	114.2	114.1	114.8	119.0
September	76.6	83.1	93.2	104.1	100.2	100.8	105.2	108.8	111.1	112.3	114.3	114.1	114.9	118.9
3rd Quarter	76.6	82.9	92.9	102.9	100.3	100.9	104.8	108.7	111.0	112.4	114.2	114.1	114.8	119.0
October	77.1	83.1	94.0	104.6	100.3	101.4	105.4	108.8	111.2	112.4	114.2	114.1	114.9	118.9
November	77.6	84.2	92.9	103.7	100.3	101.6	105.4	108.8	111.2	112.3	114.0	114.1	116.3	118.9
December	77.6	84.3	93.1	102.8	100.3	101.7	105.5	108.9	111.5	112.3	113.8	114.1	116.3	118.9
4th Quarter	77.4	83.9	93.3	103.7	100.3	101.6	105.4	108.8	111.3	112.3	114.0	114.1	115.8	118.9
Yearly average	76.0	81.0	90.6	100.5	100.6	100.5	104.6	108.2	110.9	112.5	114.0	114.0	115.0	118.7
% change in the yearly average	7.7	6.6	11.8	11.0	0.1	-0.1	4.1	3.5	2.4	1.4	1.4	0.0	0.8	3.2

### **Technical Note**

### Methodology for the compilation of the Construction Price Index

### (i) Introduction

A Construction Price Index measures the change in the level of construction prices. The construction industry is very broad and highly diversified with considerable variations from one type of construction to another. This makes it difficult to derive generalized indices that would be applicable to the industry as a whole. Hence, separate indices for the different types of construction need to be compiled. At present, Statistics Mauritius publishes an index that covers residential buildings only.

### (ii) Types of Construction Price Indices

Different approaches to index number compilation are used depending on the purpose for which the index is required. There are two main types of construction price indices:

### The Output Price Index

In this approach, specific projects representative of the various categories of construction works are selected as models and construction firms are surveyed and asked to provide estimates of the prevailing market prices for each of the projects. As such, the output price indices respond to the changes in prices of materials used and cost of labour, as well as changes in overhead costs and profits.

### The Input Price Index

The index is based on prices of a representative selection of basic inputs (labour, plant, materials and transport) that go into the construction work. Hence, the input price index measures the change in the cost of resources to the contractor, and not the change in the price that the client pays.

The office opted for the input price index which, though more limiting than the output price index, is simpler and less expensive to construct and maintain.

### (iii) Selection of representative dwelling

Since it would have been too time-consuming and costly to include all major types of residential dwellings, it was decided to restrict the index to a model dwelling, representing the most common type of dwelling in 2007. This model dwelling was determined on the basis of the 2000 Housing Census data and developments assumed to have taken place during the period 2000 to 2007. The drawings of the prototype model dwelling were provided by the Mauritius Housing Company Ltd. A description of the model is given at paragraph (viii) below.

### (iv) Weighting scheme

The quantity survey work to determine the weighting pattern for the index was entrusted to a private Quantity Surveyor following established procedures.

Any given construction consists of an assembly of a certain number of stages or work categories. Sixteen stages or broad work categories were identified and detailed costs of inputs in terms of labour, plant, materials and transport that go into the construction of the selected model were calculated under each of the 16 work categories. The weights have been worked out in such a way that they can be presented in terms of inputs as well as work categories. For publication purposes, weights and sub-indices are shown not only for the 16 work categories, but also for the 4 broad input categories of labour, plant, materials and transport, the "materials" category being further sub-divided into 17 sub-categories.

### (v) Data collection

The data needed for the computation of the index are collected every month from a sample of 50 outlets in 8 regions of the island. Prices are collected in respect of some 109 items, representative of all items that go into the computation of the index.

### (vi) Calculation of the Construction Price Index

The Construction Price Index is a weighted average of price relatives of individual items, based on the modified Laspeyres formula:

$$\mathbf{I_t} \quad = \quad \frac{\sum W_i \left( P_{it} / P_{io} \right)}{\sum W_i} x \quad 100$$

where  $I_t = index$  for current period t

 $P_{io}$  = price of item i at base period 0

 $P_{it}$  = price of item i at current period t

 $W_i$  = weight of item i

The base period is the  $2^{nd}$  quarter of 2009.

### (vii) Uses

- a) Construction price indices give an indication of the change in the level of prices of construction works. As such, they are used as deflators for the measurement of real growth in the construction sector.
- b) They are also useful for evaluating cost fluctuations in contracts regarding construction works and for renegotiating owner-tenant agreements.

### (viii) Description of model dwelling

The model used is a single storey (ground floor) detached house of 138 square meters (1,485 square feet) in floor area measured at plinth level to the external face of the external walls. The overall area is inclusive of 18.55 square metres (200 square feet) in respect of a garage.

It comprises three bedrooms, a living-dining room, a kitchen, two toilets, a utility room, a bathroom, a verandah and an attached garage. The building has concrete block walls, reinforced concrete flat roof, internal flush plywood doors, aluminium openings for windows and entrance door, screeded floor and roof, tiling to floor and walls of w.c. and bathroom and kitchen worktop; the ceilings and walls are rendered and painted both internally and externally. Plumbing, sanitary installation and electrical installation are included as well as drainage which is to be connected to the sewerage system.

Provision has been made, in the form of more substantial foundations and of stub columns on the roof, for converting the single into a two-storey house eventually. Site works are restricted to spreading and leveling surplus excavated material around the site.

The index excludes the cost of the building permit and the draughtman's fee.

It is assumed that although the house is not constructed by a contractor, the client has recourse to the services of a foreman.