

CONSTRUCTION PRICE INDEX
(Input Cost Index for the construction of a single storey house)
3rd Quarter 2004

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Technical Note

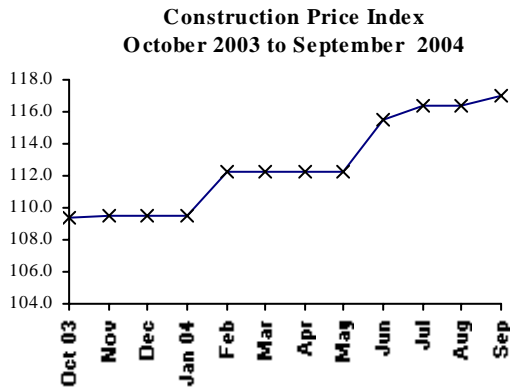
CONSTRUCTION PRICE INDEX

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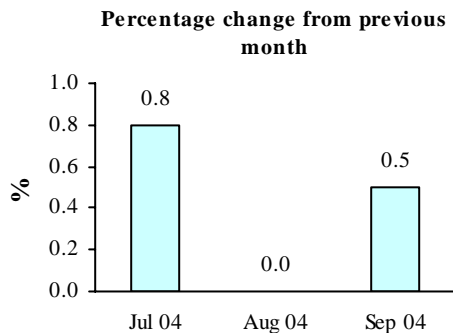
1. Introduction

This issue of the Economic and Social Indicators presents the monthly Construction Price Index (residential) for the third quarter of 2004 with fourth quarter 2001 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 Annex. Figures have been rounded to one or two decimal places although they have been calculated to many decimal places.

2. Changes in the Construction Price Index.

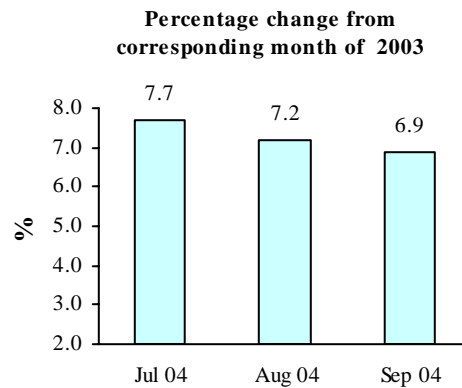


The Construction Price Index, which stood at 115.5 in June 2004, increased to 116.4 in July, a level that was maintained in August; it then increased to 117.0 in September (Table 1.1).



The 0.8% increase in July was mainly the result of higher wages following the 2004/2005 salary compensation.

Higher prices of 6mm iron bars, metallic openings, block and paint contributed most to the 0.5% increase in September (Table 1.2).



Compared to the corresponding months of 2003, the index shows increases of 7.7% for July, 7.2% for August and 6.9% for September (Table 1.3).

3. Changes by Input Categories

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

During the third quarter of 2004, no change was registered in the sub-indices for “Hire of Plant” and “Transport” categories.

The “Labour” sub-index increased by 2.5% from 106.5 in June to 109.1 in July as a result of wage increases ranging between 2.1% and 2.9%. This level remained unchanged in August and September.

As regards the sub-index for the “Materials” category, the level attained in June (122.6)

was maintained in July and August. In September, the sub-index reached a level of 123.6 mainly due to higher prices of 6 mm iron bars (32-49%), metallic openings (1.1%), block (0.9%) and paint (1.0%).

The net monthly contributions of the input categories to the index during the period October 2003 to September 2004 are shown in Table 1.4.

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

4. Changes by Work Categories

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

In July 2004, all work categories were affected by higher wages following the 2004/2005 salary compensation. The effect was more pronounced in those categories where labour has important weights, e.g. "Site preparation, excavation and disposal, hardcore filling" (1.8%) and "Rendering to wall and ceiling" (1.6%).

There was no change in the sub-indices in the month of August.

The higher costs of 6 mm iron bars in September resulted in an increase of 3.1% in the work category "Reinforcement". In the same month, the work categories "Blockwork", "Metal openings" and "Painting" registered an increase of 0.5% each following higher prices of block, metallic openings and paint respectively.

Table 2.4 shows the net monthly contributions of the work categories to the index since October 2003.

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

5. Past Trends

Table 3 summarises the monthly indices, the quarterly and yearly averages as well as the percentage changes in the yearly average since 1998. Indices for the years 1998 to 2001 have been worked out using as base the fourth quarter of 1993, while the base period for the calculation of the index from 2002 onwards is the fourth quarter of 2001.

The two series are not strictly comparable. A crude method of converting an index from the new base to the old base is to multiply the new index by 1.282. Conversely, an index on the old base can be converted to the new base by dividing the old index by 1.282.

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November 2004*

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Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 1.1: Monthly sub-indices by input categories, October 2003 to September 2004

Input Categories	Weigh	2003			2004								
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
LABOUR	34.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	109.1	109.1	109.1
HIRE OF PLANT	3.0	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6	101.6
MATERIALS :	57.2	111.9	112.1	112.1	112.1	116.9	117.0	117.0	117.1	122.6	122.6	122.6	123.6
Hardcore (remplissage)	1.0	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5
Cement	10.0	113.8	113.8	113.8	113.8	136.3	136.3	136.3	136.3	136.3	136.3	136.3	136.3
Sand	6.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1
Aggregate	2.9	118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4	118.4
Block	4.4	117.0	117.0	117.0	117.0	117.0	118.7	118.7	118.7	118.7	118.7	118.7	119.7
Steel bars (armature)	5.8	120.9	121.5	121.5	121.5	121.5	121.5	121.5	121.5	161.8	161.8	161.8	168.8
Galvanised corrugated cast iron sheeting	1.2	101.9	101.9	101.9	101.9	103.8	103.8	103.8	103.8	119.4	120.3	120.3	120.3
Timber: (a) Carpentry	3.9	116.0	116.0	116.0	116.0	117.8	117.8	117.8	115.5	115.5	115.5	115.5	115.5
(b) Joinery	4.2	105.6	105.6	105.6	105.6	105.9	105.9	105.9	106.8	106.8	106.8	106.8	106.8
Metal openings	6.1	111.7	112.3	112.3	112.3	114.3	114.3	114.3	114.3	122.2	122.2	122.2	122.8
Ceramic tiles	1.3	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
Glass and putty	0.7	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.6	104.6	104.6	104.6	104.6
Paint	2.0	105.9	106.1	106.1	106.1	112.7	112.7	112.7	114.8	114.8	114.8	114.8	116.1
Plumbing	1.5	108.6	108.7	108.7	108.7	109.6	109.6	109.6	110.3	111.7	111.7	111.7	111.7
Sanitary installation	2.3	102.9	103.3	103.3	103.3	107.6	107.6	107.6	107.6	110.2	110.5	110.5	110.9
Electrical installation	2.6	105.9	105.9	105.9	105.9	105.9	106.6	106.6	106.6	109.1	109.2	109.2	109.2
Other	1.2	105.4	105.4	105.4	105.4	107.7	107.7	107.7	108.0	108.1	109.1	109.1	109.1
TRANSPORT	5.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3	105.3
Total	100.0	109.4	109.5	109.5	109.5	112.2	112.3	112.3	112.3	115.5	116.4	116.4	117.0

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 1.2: Percentage change from previous month by input categories, October 2003 to September 2004

Input Categories	Weight	% change from previous month											
		Oct 03	Nov 03	Dec 03	Jan 04	Feb 04	Mar 04	Apr 04	May 04	Jun 04	Jul 04	Aug 04	Sep 04
LABOUR	34.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0
HIRE OF PLANT	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MATERIALS :	57.2	0.0	0.1	0.0	0.0	4.3	0.1	0.0	0.0	4.7	0.0	0.0	0.8
Hardcore (remplissage)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cement	10.0	0.0	0.0	0.0	0.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sand	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aggregate	2.9	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	4.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.9
Steel bars (armature)	5.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	33.1	0.0	0.0	4.3
Galvanised corrugated cast iron sheeting	1.2	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	15.1	0.8	0.0	0.0
Timber: (a) Carpentry	3.9	0.0	0.0	0.0	0.0	1.5	0.0	0.0	-2.0	0.0	0.0	0.0	0.0
(b) Joinery	4.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.8	0.0	0.0	0.0	0.0
Metal openings	6.1	0.0	0.5	0.0	0.0	1.8	0.0	0.0	0.0	6.9	0.0	0.0	0.5
Ceramic tiles	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass and putty	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Paint	2.0	0.0	0.2	0.0	0.0	6.2	0.0	0.0	1.8	0.0	0.0	0.0	1.1
Plumbing	1.5	0.0	0.1	0.0	0.0	0.8	0.0	0.0	0.6	1.3	0.0	0.0	0.0
Sanitary installation	2.3	0.0	0.4	0.0	0.0	4.1	0.0	0.0	0.0	2.4	0.2	0.0	0.4
Electrical installation	2.6	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.4	0.1	0.0	0.0
Other	1.2	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.2	0.1	0.9	0.0	0.0
TRANSPORT	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVERALL CHANGE		0.0	0.1	0.0	0.0	2.5	0.1	0.0	0.0	2.8	0.8	0.0	0.5

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 1.3: Percentage change from corresponding month of previous year by input categories, October 2003 to September 2004

Input Categories	Weight	% change from corresponding month of previous year											
		Oct 03	Nov 03	Dec 03	Jan 04	Feb 04	Mar 04	Apr 04	May 04	Jun 04	Jul 04	Aug 04	Sep 04
LABOUR	34.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.5	2.5	2.5
HIRE OF PLANT	3.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MATERIALS :	57.2	5.1	5.1	5.1	4.3	6.9	6.9	6.7	6.7	11.7	11.7	10.9	10.4
Hardcore (remplissage)	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cement	10.0	8.9	8.9	8.9	8.9	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
Sand	6.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	0.0
Aggregate	2.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	0.0
Block	4.4	6.5	6.5	6.5	6.5	3.4	4.8	4.8	4.8	4.8	4.8	4.8	2.3
Steel bars (armature)	5.8	12.0	12.4	12.4	6.5	6.6	6.6	6.6	6.6	41.9	41.8	33.9	39.7
Galvanised corrugated cast iron sheeting	1.2	0.9	0.9	0.9	0.9	2.8	2.3	1.8	1.8	17.2	18.1	18.1	18.1
Timber: (a) Carpentry	3.9	-0.3	-0.3	-0.3	-0.3	1.2	1.2	1.2	-0.8	-0.8	-0.5	-0.5	-0.5
(b) Joinery	4.2	0.3	0.3	0.3	0.3	0.6	0.0	0.2	1.0	1.0	1.0	1.1	1.1
Metal openings	6.1	2.5	2.0	2.0	2.0	3.9	3.9	3.5	3.5	10.6	10.6	9.4	10.0
Ceramic tiles	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Glass and putty	0.7	1.3	1.3	1.3	1.3	0.2	0.2	0.2	0.5	0.5	0.5	0.2	0.2
Paint	2.0	2.9	3.1	3.1	3.1	9.5	8.7	8.2	10.2	10.2	8.5	8.5	9.7
Plumbing	1.5	5.8	5.5	5.5	0.0	0.7	0.7	0.7	1.4	2.6	2.8	2.8	2.8
Sanitary installation	2.3	3.3	3.6	3.6	3.2	7.4	7.4	6.1	6.1	8.7	8.9	7.3	7.8
Electrical installation	2.6	3.5	3.6	3.6	3.6	3.6	1.7	0.3	0.3	2.6	2.8	3.1	3.2
Other	1.2	2.3	1.6	1.6	1.3	3.5	2.4	2.3	2.5	2.6	3.8	3.5	3.5
TRANSPORT	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVERALL CHANGE		4.0	4.0	4.0	3.5	5.0	5.0	4.9	4.9	7.8	7.7	7.2	6.9

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 1.4: Net monthly contributions of input categories to the index, October 2003 to September 2004

Input Categories	Weight	2003			2004									
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
LABOUR	34.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00
HIRE OF PLANT	3.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MATERIALS :	57.2	0.00	0.09	0.00	0.00	2.75	0.09	0.00	0.00	0.00	3.16	0.03	0.00	0.53
Hardcore (remplissage)	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cement	10.0	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sand	6.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aggregate	2.9	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
Block	4.4	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Steel bars (armature)	5.8	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.35	0.00	0.00	0.41
Galvanised corrugated cast iron sheeting	1.2	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.19	0.01	0.00	0.00
Timber: (a) Carpentry	3.9	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	-0.09	0.00	0.00	0.00	0.00
(b) Joinery	4.2	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
Metal openings	6.1	0.00	0.03	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.04
Ceramic tiles	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Glass and putty	0.7	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
Paint	2.0	0.00	0.01	0.00	0.00	0.13	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.03
Plumbing	1.5	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
Sanitary installation	2.3	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.01
Electrical installation	2.6	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.06	0.00	0.00	0.00
Other	1.2	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
TRANSPORT	5.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	100.0	0.00	0.09	0.00	0.00	2.75	0.09	0.00	0.00	0.00	3.16	0.95	0.00	0.53

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 1.5: Quarterly average of monthly indices and percentage changes by input categories, October 2003 - September 2004

Input Categories	Weight	2003	2004			% change from previous quarter			
		4th Qr	1st Qr	2nd Qr	3rd Qr	4th Qr 2003	1st Qr 2004	2nd Qr 2004	3rd Qr 2004
LABOUR	34.5	106.5	106.5	106.5	109.1	0.0	0.0	0.0	2.5
HIRE OF PLANT	3.0	101.6	101.6	101.6	101.6	0.0	0.0	0.0	0.0
MATERIALS :	57.2	112.0	115.3	118.9	122.9	1.1	2.9	3.1	3.4
Hardcore (remplissage)	1.0	110.5	110.5	110.5	110.5	0.0	0.0	0.0	0.0
Cement	10.0	113.8	128.8	136.3	136.3	0.0	13.2	5.8	0.0
Sand	6.1	111.1	111.1	111.1	111.1	3.4	0.0	0.0	0.0
Aggregate	2.9	118.4	118.4	118.4	118.4	5.1	0.0	0.0	0.0
Block	4.4	117.0	117.6	118.7	119.0	2.2	0.5	0.9	0.3
Steel bars (armature)	5.8	121.3	121.5	134.9	164.1	2.3	0.2	11.1	21.6
Galvanised corrugated cast iron sheeting	1.2	101.9	103.2	109.0	120.3	0.0	1.2	5.7	10.4
Timber: (a) Carpentry	3.9	116.0	117.2	116.2	115.5	0.0	1.0	-0.8	-0.7
(b) Joinery	4.2	105.6	105.8	106.5	106.8	0.0	0.2	0.6	0.3
Metal openings	6.1	112.1	113.6	117.0	122.4	0.7	1.4	2.9	4.7
Ceramic tiles	1.3	101.5	101.5	101.5	101.5	0.0	0.0	0.0	0.0
Glass and putty	0.7	104.4	104.4	104.5	104.6	0.1	0.0	0.2	0.1
Paint	2.0	106.1	110.5	114.1	115.3	0.2	4.2	3.2	1.0
Plumbing	1.5	108.7	109.3	110.5	111.7	0.1	0.6	1.1	1.0
Sanitary installation	2.3	103.2	106.2	108.5	110.6	0.7	2.9	2.2	2.0
Electrical installation	2.6	105.9	106.1	107.4	109.2	-0.1	0.2	1.2	1.6
Other	1.2	105.4	107.0	107.9	109.1	0.1	1.5	0.9	1.1
TRANSPORT	5.3	105.3	105.3	105.3	105.3	0.0	0.0	0.0	0.0
OVERALL INDEX AND CHANGE		109.5	111.3	113.4	116.6	0.7	1.7	1.8	2.8

Input Cost Index for the construction of a single storey house
(Base: 4th Quarter 2001 = 100)

Table 2.1: Monthly sub-indices by work categories, October 2003 to September 2004

Work Categories	Weight	2003			2004									
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1. Setting up	2.3	104.5	104.5	104.5	104.5	106.9	106.9	106.9	106.9	115.2	116.0	116.0	116.0	
2. Setting out	0.5	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	104.4	104.4	104.4	
3. Temporary works	0.5	108.5	108.5	108.5	108.5	109.3	109.3	109.3	108.4	108.4	109.2	109.2	109.2	
4. Site preparation, excavation & disposal, hardcore filling	5.8	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	109.9	109.9	109.9	
5. Concrete	20.2	110.8	110.8	110.8	110.8	117.3	117.3	117.3	117.3	117.3	118.1	118.1	118.1	
6. Reinforcement	9.2	115.5	115.9	115.9	115.9	115.9	115.9	115.9	115.9	141.2	142.1	142.1	146.5	
7. Formwork (coffrage)	7.8	110.0	110.0	110.0	110.0	110.9	110.9	110.9	109.9	109.9	110.9	110.9	110.9	
8. Blockwork	8.5	112.2	112.2	112.2	112.2	113.8	114.6	114.6	114.6	114.6	115.2	115.2	115.7	
9. Softwood joinery	4.5	105.6	105.6	105.6	105.6	105.9	105.9	105.9	106.7	106.7	106.9	106.9	106.9	
10. Ironmongery	0.5	107.2	107.2	107.2	107.2	107.7	107.7	107.7	107.7	107.7	108.6	108.6	108.6	
11. Metal openings	6.5	111.3	111.9	111.9	111.9	113.8	113.8	113.8	113.8	121.2	121.3	121.3	121.9	
12. Rendering to wall/ceiling (crépissage)	9.9	107.6	107.6	107.6	107.6	110.9	110.9	110.9	110.9	110.9	112.7	112.7	112.7	
13. Bed & screed to floor/roof	4.2	110.3	110.3	110.3	110.3	119.0	119.0	119.0	119.0	119.0	119.7	119.7	119.7	
14. Tiling	2.1	103.2	103.2	103.2	103.2	103.4	103.4	103.4	103.4	103.5	104.4	104.4	104.4	
15. Glazing	1.0	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.8	104.8	105.1	105.1	105.1	
16. Painting	5.2	105.8	105.9	105.9	105.9	108.6	108.6	108.6	109.4	109.4	110.8	110.8	111.3	
17. Plumbing/sanitary installation	5.0	105.7	106.0	106.0	106.0	107.7	107.7	107.7	107.9	109.3	110.2	110.2	110.3	
18. Electrical installation	4.2	106.0	106.0	106.0	106.0	106.0	106.4	106.4	106.4	107.9	109.0	109.0	109.0	
19. Drainage	2.1	109.0	109.0	109.0	109.0	113.1	113.3	113.3	113.2	114.6	115.9	115.9	116.3	
Total	100.0	109.4	109.5	109.5	109.5	112.2	112.3	112.3	112.3	112.3	115.5	116.4	116.4	117.0

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 2.2: Percentage change from previous month by work categories, October 2003 to September 2004

Work Categories	Weight	% change from previous month											
		Oct 03	Nov 03	Dec 03	Jan 04	Feb 04	Mar 04	Apr 04	May 04	Jun 04	Jul 04	Aug 04	Sep 04
1. Setting up	2.3	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	7.7	0.7	0.0	0.0
2. Setting out	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0
3. Temporary works	0.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	-0.8	0.0	0.8	0.0	0.0
4. Site preparation, excavation & disposal, hardcore filling	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
5. Concrete	20.2	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.7	0.0	0.0
6. Reinforcement	9.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	21.8	0.7	0.0	3.1
7. Formwork (coffrage)	7.8	0.0	0.0	0.0	0.0	0.8	0.0	0.0	-0.9	0.0	0.9	0.0	0.0
8. Blockwork	8.5	0.0	0.0	0.0	0.0	1.4	0.7	0.0	0.0	0.0	0.6	0.0	0.5
9. Softwood joinery	4.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.8	0.0	0.1	0.0	0.0
10. Ironmongery	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.9	0.0	0.0
11. Metal openings	6.5	0.0	0.5	0.0	0.0	1.7	0.0	0.0	0.0	6.5	0.1	0.0	0.5
12. Rendering to wall/ceiling (crépissage)	9.9	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	1.6	0.0	0.0
13. Bed & screed to floor/roof	4.2	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.6	0.0	0.0
14. Tiling	2.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.8	0.0	0.0
15. Glazing	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.0
16. Painting	5.2	0.0	0.1	0.0	0.0	2.6	0.0	0.0	0.7	0.0	1.2	0.0	0.5
17. Plumbing/sanitary installation	5.0	0.0	0.2	0.0	0.0	1.7	0.0	0.0	0.2	1.3	0.8	0.0	0.1
18. Electrical installation	4.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	1.4	1.0	0.0	0.0
19. Drainage	2.1	0.0	0.0	0.0	0.0	3.8	0.1	0.0	-0.1	1.3	1.1	0.0	0.3
OVERALL CHANGE		0.0	0.1	0.0	0.0	2.5	0.1	0.0	0.0	2.8	0.8	0.0	0.5

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 2.3: Percentage change from corresponding month of previous year by work categories, October 2003 to September 2004

Work Categories	Weight	% change from corresponding month of previous year											
		Oct 03	Nov 03	Dec 03	Jan 04	Feb 04	Mar 04	Apr 04	May 04	Jun 04	Jul 04	Aug 04	Sep 04
1. Setting up	2.3	1.9	1.9	1.9	1.9	3.6	3.4	3.1	3.1	11.1	11.6	11.6	11.0
2. Setting out	0.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.2	1.2
3. Temporary works	0.5	0.7	0.7	0.7	0.7	1.5	1.5	1.5	0.6	0.6	0.6	0.6	0.6
4. Site preparation, excavation & disposal, hardcore filling	5.8	2.7	2.7	2.7	2.4	2.4	2.4	2.4	2.4	2.4	2.1	2.1	1.8
5. Concrete	20.2	5.4	5.4	5.4	5.4	8.8	8.8	8.8	8.8	8.8	8.7	8.7	6.6
6. Reinforcement	9.2	8.6	8.9	8.9	5.2	5.2	5.2	5.2	5.2	28.1	27.7	23.0	26.8
7. Formwork (coffrage)	7.8	0.9	0.9	0.9	0.9	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
8. Blockwork	8.5	4.9	4.9	4.9	4.9	4.1	4.8	4.8	4.8	4.8	4.7	4.7	3.1
9. Softwood joinery	4.5	0.4	0.4	0.4	0.4	0.7	0.2	0.3	1.1	1.1	1.1	1.2	1.2
10. Ironmongery	0.5	5.6	3.9	3.9	3.9	4.4	1.7	1.7	1.7	1.7	1.6	1.4	1.4
11. Metal openings	6.5	2.5	2.1	2.1	2.1	3.8	3.8	3.4	3.4	10.1	10.1	9.0	9.5
12. Rendering to wall/ceiling (crépissage)	9.9	3.7	3.7	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.2	5.2	4.7
13. Bed & screed to floor/roof	4.2	5.3	5.3	5.3	5.3	9.9	9.9	9.9	9.9	9.9	9.8	9.8	8.5
14. Tiling	2.1	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.1
15. Glazing	1.0	1.3	1.3	1.3	1.3	0.5	0.5	0.5	0.7	0.7	0.7	0.5	0.5
16. Painting	5.2	2.6	2.7	2.7	2.7	5.3	5.0	4.8	5.6	5.6	4.7	4.7	5.2
17. Plumbing/sanitary installation	5.0	4.1	4.1	4.1	2.2	3.9	3.9	3.3	3.5	4.8	4.9	4.2	4.3
18. Electrical installation	4.2	3.2	3.3	3.3	3.3	3.3	2.1	1.2	1.2	2.7	2.6	2.8	2.9
19. Drainage	2.1	3.7	3.7	3.7	3.3	5.9	6.0	6.0	5.9	7.2	7.6	7.4	6.7
OVERALL CHANGE		4.0	4.0	4.0	3.5	5.0	5.0	4.9	4.9	7.8	7.7	7.2	6.9

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 2.4: Net monthly contributions of work categories to the index, October 2003 to September 2004

Work Categories	Weight	2003			2004								
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1. Setting up	2.3	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.19	0.02	0.00	0.00
2. Setting out	0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
3. Temporary works	0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4. Site preparation, excavation & disposal, hardcore filling	5.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
5. Concrete	20.2	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.16	0.00	0.00
6. Reinforcement	9.2	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	2.33	0.09	0.00	0.41
7. Formwork (coffrage)	7.8	0.00	0.00	0.00	0.00	0.07	0.00	0.00	-0.08	0.00	0.08	0.00	0.00
8. Blockwork	8.5	0.00	0.00	0.00	0.00	0.13	0.07	0.00	0.00	0.00	0.06	0.00	0.04
9. Softwood joinery	4.5	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.01	0.00	0.00
10. Ironmongery	0.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11. Metal openings	6.5	0.00	0.03	0.00	0.00	0.12	0.00	0.00	0.00	0.48	0.01	0.00	0.04
12. Rendering to wall/ceiling (crépissage)	9.9	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.18	0.00	0.00
13. Bed & screed to floor/roof	4.2	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.03	0.00	0.00
14. Tiling	2.1	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00
15. Glazing	1.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16. Painting	5.2	0.00	0.01	0.00	0.00	0.14	0.00	0.00	0.04	0.00	0.07	0.00	0.03
17. Plumbing/sanitary installation	5.0	0.00	0.01	0.00	0.00	0.09	0.00	0.00	0.01	0.07	0.04	0.00	0.01
18. Electrical installation	4.2	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.06	0.04	0.00	0.00
19. Drainage	2.1	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.03	0.03	0.00	0.01
TOTAL	100.0	0.00	0.09	0.00	0.00	2.75	0.09	0.00	0.00	3.16	0.95	0.00	0.53

Input Cost Index for the construction of a single storey house

(Base: 4th Quarter 2001 = 100)

Table 2.5: Quarterly average of monthly indices and percentage changes by work categories, October 2003 - September 2004

Work Categories	Weight	2003	2004			% change from previous quarter			
		4th Qr	1st Qr	2nd Qr	3rd Qr	4th Qr 2003	1st Qr 2004	2nd Qr 2004	3rd Qr 2004
1. Setting up	2.3	104.5	106.1	109.7	116.0	0.3	1.5	3.4	5.8
2. Setting out	0.5	103.1	103.1	103.1	104.4	0.0	0.0	0.0	1.2
3. Temporary works	0.5	108.5	109.0	108.7	109.2	0.0	0.5	-0.3	0.5
4. Site preparation, excavation & disposal, hardcore filling	5.8	108.0	108.0	108.0	109.9	0.2	0.0	0.0	1.8
5. Concrete	20.2	110.8	115.1	117.3	118.1	1.3	4.0	1.9	0.7
6. Reinforcement	9.2	115.8	115.9	124.3	143.6	1.5	0.1	7.3	15.5
7. Formwork (coffrage)	7.8	110.0	110.6	110.2	110.9	0.0	0.5	-0.4	0.6
8. Blockwork	8.5	112.2	113.5	114.6	115.4	1.3	1.2	0.9	0.7
9. Softwood joinery	4.5	105.6	105.8	106.4	106.9	0.0	0.2	0.6	0.4
10. Ironmongery	0.5	107.2	107.5	107.7	108.6	0.1	0.3	0.2	0.9
11. Metal openings	6.5	111.7	113.2	116.3	121.5	0.7	1.3	2.7	4.5
12. Rendering to wall/ceiling (crépissage)	9.9	107.6	109.8	110.9	112.7	0.3	2.0	1.0	1.6
13. Bed & screed to floor/roof	4.2	110.3	116.1	119.0	119.7	0.7	5.3	2.5	0.6
14. Tiling	2.1	103.2	103.4	103.5	104.4	0.0	0.2	0.1	0.9
15. Glazing	1.0	104.6	104.6	104.8	105.1	0.1	0.0	0.1	0.4
16. Painting	5.2	105.9	107.7	109.2	110.9	0.1	1.8	1.3	1.6
17. Plumbing/sanitary installation	5.0	105.9	107.1	108.3	110.2	0.4	1.2	1.1	1.7
18. Electrical installation	4.2	106.0	106.1	106.9	109.0	-0.1	0.1	0.8	1.9
19. Drainage	2.1	109.0	111.8	113.7	116.0	0.7	2.6	1.7	2.1
OVERALL INDEX AND CHANGE		109.5	111.3	113.4	116.6	0.7	1.7	1.8	2.8

Table 3: Construction Price Index - January 1998 to September 2004

	<i>(Base: 4th Quarter 1993 = 100)</i>				<i>(Base: 4th Quarter 2001 = 100)</i>		
	1998	1999	2000	2001	2002	2003	2004
January	115.2	118.6	120.4	124.9	100.3	105.8	109.5
February	115.3	119.1	120.4	124.9	100.5	106.8	112.2
March	115.3	119.1	120.5	125.0	100.6	107.0	112.3
<i>1st Quarter</i>	<i>115.3</i>	<i>118.9</i>	<i>120.5</i>	<i>124.9</i>	<i>100.5</i>	<i>106.5</i>	<i>111.3</i>
April	115.3	119.2	120.4	124.9	100.7	107.1	112.3
May	115.5	119.2	120.4	124.9	101.5	107.1	112.3
June	115.6	119.3	120.5	124.9	101.5	107.1	115.5
<i>2nd Quarter</i>	<i>115.5</i>	<i>119.3</i>	<i>120.5</i>	<i>124.9</i>	<i>101.3</i>	<i>107.1</i>	<i>113.4</i>
July	116.9	120.9	121.5	126.9	105.4	108.1	116.4
August	117.5	121.0	121.6	127.4	105.4	108.6	116.4
September	118.1	121.0	121.4	127.4	105.4	109.4	117.0
<i>3rd Quarter</i>	<i>117.5</i>	<i>120.9</i>	<i>121.5</i>	<i>127.2</i>	<i>105.4</i>	<i>108.7</i>	<i>116.6</i>
October	118.4	121.2	124.3	127.6	105.2	109.4	
November	118.4	120.5	124.4	128.4	105.3	109.5	
December	118.6	120.6	124.4	128.5	105.3	109.5	
<i>4th Quarter</i>	<i>118.4</i>	<i>120.8</i>	<i>124.3</i>	<i>128.2</i>	<i>105.3</i>	<i>109.5</i>	
Yearly average	116.7	120.0	121.7	126.3	103.1	107.9	
% change in the yearly average	2.9	2.8	1.4	3.8	4.7	4.7	

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. The Central Statistics Office has decided to start with an index for 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 the most common type identified at the 2000 Housing Census. 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 firm of Quantity Surveyors following established procedures.

Any given construction consists of an assembly of a certain number of stages or work categories. Nineteen 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 19 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 19 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 53 outlets in 8 regions of the island. Prices are collected in respect of some 84 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:

$$I_t = \frac{\sum W_i (P_{it} / P_{io})}{\sum W_i} \times 100$$

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 4th quarter of 2001.

(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 128.30 square metres (1,381 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 two bedrooms, a living-dining room, a kitchen, a toilet, a bathroom, a verandah and an attached garage. The building has concrete block walls, reinforced concrete flat roof, internal flush plywood doors, glazed metal openings, 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; these two items represent 0.47 % and 1.30% of the total cost respectively.

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