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## **STATISTICAL RELEASE**

### **P0151.1**

# Construction Material Price Indices

January 2020

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## KEY FINDINGS: CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)

In January 2020, month-on-month percentage changes in the CPAP work group indices ranged from -3,6% for work group 125 to 1,4% for work group 110 (Table 1).

Noteworthy changes in January 2020 were as follows:

- **Work group 110:** The index increased by 1,4% month-on-month. There was an increase of 4,8% month-on-month in the PPI for cement (accounting for 45,0% of this work group).
- **Work group 104:** The index increased by 1,2% month-on-month. There was an increase of 2,1% month-on-month in the plant index (accounting for 50,0% of this work group).
- **Work group 106:** The index increased by 1,1% month-on-month. There were increases of 4,8% month-on-month in the PPI for cement (accounting for 10,0% of this work group) and 2,1% month-on-month in the plant index (accounting for 42,0% of this work group).
- **Work group 125:** The index decreased by 3,6% month-on-month. There was a decrease of 4,1% month-on-month in SEIFSA for aluminium products 99,7 EC grade rod (accounting for 90,0% of this work group).

## Changes to workgroups 106, 112, 114 and 125

As from January 2020, the following changes were made to the basket of the workgroups:

- Work groups 106, 112 and 114 – SEIFSA for reinforcing steel has been replaced with PPI for reinforcing metal work.
- Work group 125 – SEIFSA for profiled aluminium roofing has been replaced with SEIFSA for aluminium products 99,7 EC grade rod.

## KEY FINDINGS: CONSTRUCTION INPUT PRICE INDICES (CIPI)

- **Total construction:** The index increased by 0,5% month-on-month (Table 2).
- **Civil engineering material – total:** The index increased by 0,9% month-on-month (Table 6).

**Risenga Maluleke**  
Statistician-General

## DETAILED RESULTS

Table 1 - Contract price adjustment provisions (CPAP) work group indices

Base: Dec 2016=100

Year and month	102	104	106	110	111	112	113	114	
	Alterations	Earthworks	Piling	Concrete (excluding formwork)	Formwork	Precast concrete	Post tensioning	Reinforcement	
2019	Jan	109,2	108,1	112,2	117,3	110,9	115,2	145,3	121,5
	Feb	110,1	108,2	112,4	118,3	111,5	115,8	145,5	121,7
	Mar	111,0	108,7	113,0	120,4	111,9	116,7	145,7	121,5
	Apr	111,7	109,1	113,3	120,7	112,5	116,9	145,9	121,7
	May	112,0	109,2	114,0	123,7	112,6	118,0	146,0	121,8
	Jun	112,4	109,4	113,4	120,7	112,8	117,1	146,1	121,9
	Jul	112,8	109,9	113,7	121,0	113,0	117,6	146,2	122,0
	Aug	113,1	110,1	114,9	121,6	113,2	118,8	146,3	122,9
	Sep	113,4	110,3	115,2	122,5	113,4	119,2	146,4	128,0
	Oct	113,4	110,3	115,2	122,3	113,4	119,1	146,4	128,0
	Nov	113,5	110,4	115,0	121,5	113,5	118,8	146,4	128,0
	Dec	113,8	110,5	115,0	121,3	113,6	118,9	146,5	128,1
2020	Jan	114,1	111,8	116,3	123,0	113,7	119,3	146,6	127,2

Year and month	116	118	120	122	124	125	126	129	
	Brick and block work	Masonry	Water proofing	Non metal roofing	Metal roofing (steel)	Metal roofing (aluminium)	Carpentry and joinery	Ceilings	
2019	Jan	99,6	105,9	110,7	110,1	107,5	110,4	108,2	102,6
	Feb	103,0	105,9	111,5	112,6	107,6	110,5	108,8	102,8
	Mar	103,9	107,5	116,4	114,2	107,7	110,5	109,6	103,2
	Apr	103,6	107,1	120,2	114,9	106,7	110,6	110,1	103,7
	May	103,6	107,7	121,7	113,4	105,6	110,6	110,5	103,6
	Jun	104,6	108,4	123,2	112,7	105,7	110,7	110,7	103,6
	Jul	106,3	107,2	120,7	114,9	110,2	110,7	111,4	104,0
	Aug	106,5	109,4	122,2	116,3	110,2	110,8	111,5	103,5
	Sep	108,3	108,6	119,0	116,3	111,3	110,8	112,0	104,3
	Oct	108,2	108,8	122,5	117,1	111,3	110,8	112,0	103,7
	Nov	108,2	108,7	115,3	114,1	111,3	110,8	112,0	104,4
	Dec	110,0	108,2	107,0	114,2	111,3	110,8	112,2	107,6
2020	Jan	110,2	108,2	107,5	114,4	111,4	106,8	112,3	107,3

Year and month	130	132	134	136	138	140	141	142	
	Resilient floor and wall coverings	Ironmongery	Structural steelwork in buildings	Metalwork	Partitioning systems	Aluminium work	Stainless steel work	In situ finishes	
2019	Jan	109,6	108,2	113,9	115,3	109,0	111,9	113,2	113,6
	Feb	109,8	108,4	114,3	115,6	109,3	111,2	113,2	114,5
	Mar	110,0	112,9	114,7	115,9	110,4	111,9	114,2	116,3
	Apr	113,2	113,1	116,2	117,4	111,4	112,5	114,6	116,9
	May	113,2	113,1	115,6	116,6	111,5	112,6	117,4	118,5
	Jun	113,4	113,2	115,8	116,8	111,6	112,8	118,0	117,3
	Jul	113,5	113,3	113,9	114,5	111,9	113,1	116,5	118,1
	Aug	113,6	113,4	114,2	114,8	112,1	113,6	115,8	118,5
	Sep	113,6	113,4	114,5	115,0	112,8	114,9	117,4	119,1
	Oct	113,6	113,4	114,5	115,0	112,8	114,9	121,7	119,0
	Nov	113,7	113,5	114,5	115,0	112,9	114,9	124,0	118,7
	Dec	113,7	113,5	114,6	115,1	113,0	115,0	121,3	118,9
2020	Jan	113,8	113,6	114,8	115,2	113,1	115,1	122,2	119,5

**Table 1 - Contract price adjustment provisions (CPAP) work group indices (concluded)****Base: Dec 2016=100**

Year and month		144	146	148	149	150	152	154	160
		Tiling	Drainage	Plumbing	Aluminium shop fronts and pre-glazed windows	Glazing	Painting	Roadwork	Electrical installations
2019	Jan	108,3	107,6	106,6	108,0	103,2	109,5	116,5	111,4
	Feb	108,7	108,8	107,4	107,9	103,3	110,2	116,6	109,0
	Mar	109,0	109,2	107,8	108,4	103,4	113,5	117,8	112,5
	Apr	109,3	110,2	107,4	108,8	103,5	114,1	119,7	114,8
	May	109,4	110,3	108,0	109,0	103,5	114,4	119,8	113,6
	Jun	109,6	110,4	108,1	109,1	103,6	114,8	120,5	111,5
	Jul	109,8	110,9	108,1	109,4	103,6	115,1	118,4	111,8
	Aug	109,9	111,0	108,0	109,6	103,6	115,3	118,8	111,8
	Sep	110,1	111,4	108,6	110,2	103,7	115,5	118,0	113,5
	Oct	110,1	111,5	109,5	110,2	103,7	115,5	118,8	113,3
	Nov	110,1	111,7	110,1	110,3	103,7	115,5	116,0	113,3 r
	Dec	110,2	112,0	109,8	110,4	103,7	115,7	113,1	112,9 r
2020	Jan	111,3	112,5	110,3	110,5	103,7	115,9	113,5	112,9

Year and month		162	170	171	172	173	180	181	190
		Electrical reticulation	Mechanical services	Ductwork installations	Refrigeration installations	Steel water pipe installations	Lump sum domestic buildings	Commercial/industrial buildings	Lump sum preliminaries
2019	Jan	111,6	109,8	111,4	111,3	113,0	108,1	110,2	108,9
	Feb	107,4	109,6	111,4	113,5	112,3	109,0	110,6	109,2
	Mar	111,9	109,9	111,4	116,8	111,8	110,4	111,8	111,0
	Apr	114,3	111,0	111,1	116,4	112,0	111,0	112,6	112,5
	May	113,6	110,8	110,4	114,0	111,8	111,2	112,9	112,7
	Jun	111,2	110,5	110,4	113,0	111,9	111,1	112,5	113,4
	Jul	110,6	113,1	115,2	115,0	114,7	111,6	112,9	112,8
	Aug	111,2	113,4	115,2	116,6	114,6	111,9	113,4	112,8
	Sep	113,5	113,7	115,8	116,9 r	115,0	112,7	113,9	113,3
	Oct	112,7	113,9	115,8	116,3 r	115,8	112,8	114,1	113,7
	Nov	112,5 r	113,9	115,8	116,5	115,6	112,7	113,9	113,5
	Dec	112,8 r	113,7	115,8	116,9	115,5	112,9 r	113,9	113,5
2020	Jan	112,1	113,8	115,8	117,3	115,7	113,3	114,2	114,5

**Table 2 - Construction input price index (CIPi): material purchases by type of service**

Service	Weight	Index (Dec 2016=100)			Percentage change	
		Jan 2019	Dec 2019	Jan 2020	Jan 2020 vs. Dec 2019	Jan 2020 vs. Jan 2019
<b>Total construction</b>	100,00	112,5	114,8	115,4	0,5	2,6
Site preparation	0,97	111,5	117,5	118,0	0,4	5,8
Construction of buildings	23,96	106,9	110,7	111,4	0,6	4,2
Civil engineering	36,88	118,3	119,1	120,2	0,9	1,6
Other structures	1,54	112,3	116,4	115,7	-0,6	3,0
Construction by specialist trade contractors	6,07	109,4	112,7	112,7	0,0	3,0
Plumbing	1,72	103,6	108,1	108,5	0,4	4,7
Electrical contractors	8,06	112,3	113,2	113,6	0,4	1,2
Shopfitting	0,52	107,7	112,6	112,4	-0,2	4,4
Other building installation	7,63	110,1	110,8	111,0	0,2	0,8
Painting and decorating	1,06	109,0	117,6	117,5	-0,1	7,8
Other building completion	8,35	110,3	113,1	112,9	-0,2	2,4
Renting of construction or demolition equipment with operators	3,24	112,4	119,2	119,0	-0,2	5,9

**Table 3 - Construction input price index (CIP): material purchases for whole industry**

Product	Weight	Index (Dec 2016=100)			Percentage change	
		Jan 2019	Dec 2019	Jan 2020	Jan 2020 vs. Dec 2019	Jan 2020 vs. Jan 2019
<b>Total construction</b>	100,00	112,5	114,8	115,4	0,5	2,6
<b>Construction stone and sand</b>	9,23	137,8	129,3	128,3	-0,8	-6,9
Aggregate stone	7,93	137,4	126,8	126,5	-0,2	-7,9
Sand	0,82	147,1	152,5	145,0	-4,9	-1,4
Granite, sandstone and other monumental and building stone	0,48	130,0	130,8	130,6	-0,2	0,5
<b>Carpets (excluding mats and rugs)</b>	1,00	115,1	115,1	115,1	0,0	0,0
<b>Boards of wood</b>	1,69	110,3	115,7	115,7	0,0	4,9
<b>Builders' carpentry of wood</b>	1,59	101,1	104,3	104,4	0,1	3,3
<b>Paints</b>	2,92	109,9	119,3	119,3	0,0	8,6
<b>Prepared explosives</b>	0,34	117,7	120,8	122,8	1,7	4,3
<b>Construction tyres</b>	0,63	109,9	113,3	113,3	0,0	3,1
<b>Construction pipes, tubes and fittings</b>	3,24	106,1	110,4	111,2	0,7	4,8
Tubes, pipes, tube-fittings and pipe-fittings of copper	1,23	102,9	106,1	108,3	2,1	5,2
Concrete pipes	0,38	138,7	155,0	155,0	0,0	11,8
Construction plastic pipes, tubes and fittings	1,63	100,9	103,3	103,3	0,0	2,4
<b>Adhesive and sealant</b>	0,31	124,6	124,9	128,0	2,5	2,7
<b>Vinyl sheeting and flooring</b>	0,04	111,4	117,1	117,1	0,0	5,1
<b>Non-structural ceramic ware</b>	0,34	100,3	94,9	94,9	0,0	-5,4
<b>Construction bricks and tiles</b>	11,93	99,6	108,9	106,5	-2,2	6,9
Bricks	10,77	98,5	109,1	106,4	-2,5	8,0
Tiles	1,16	109,8	106,8	107,7	0,8	-1,9
<b>Cement</b>	11,67	112,8	123,0	129,0	4,9	14,4
<b>Ready-mix concrete</b>	5,68	88,4	88,0	90,7	3,1	2,6
<b>Ceiling boards</b>	1,38	90,5	96,1	95,6	-0,5	5,6
<b>Prefabricated cement and concrete components</b>	0,98	114,6	123,6	123,6	0,0	7,9
<b>Pre-mix asphalt</b>	0,08	112,2	109,2	109,4	0,2	-2,5
<b>Bituminous mixtures</b>	8,28	115,9	108,5	108,4	-0,1	-6,5
<b>Construction structural and reinforcing steel</b>	18,41	120,7	122,1	122,3	0,2	1,3
Bars and rods of iron or steel	9,16	125,2	123,6	123,6	0,0	-1,3
Reinforcing metal work	2,38	120,7	120,4	119,2	-1,0	-1,2
Angles, shapes, sections and similar products of iron or steel	1,21	127,3	131,1	131,1	0,0	3,0
Equipment for scaffolding, shuttering and propping	1,95	112,1	119,4	117,0	-2,0	4,4
Welded angles, shapes and sections for use in manufactured structures	2,97	112,1	118,8	122,3	2,9	9,1
Steel door and window frames	0,74	110,3	115,8	115,8	0,0	5,0
<b>Wire of iron or steel</b>	0,18	113,5	124,0	115,8	-6,6	2,0
<b>Construction taps, cocks and valves</b>	1,33	100,0	106,1	106,1	0,0	6,1
<b>Construction pumps, compressors and refrigerator machinery</b>	4,94	106,2	107,0	107,4	0,4	1,1
<b>Construction electric motors, generators or transformers</b>	0,90	109,5	114,5	115,1	0,5	5,1
<b>Electrical components</b>	1,97	111,9	118,9	118,9	0,0	6,3
<b>Electrical cable</b>	3,55	113,1	112,0	112,9	0,8	-0,2
<b>Construction, distribution and control equipment</b>	5,44	112,5	111,4	111,4	0,0	-1,0
<b>Construction vehicle parts</b>	1,95	108,9	119,2	118,6	-0,5	8,9

**Table 4 - Mining and construction plant and equipment price index**

Product	Weight	Index (Dec 2016=100)			Percentage change	
		Jan 2019	Dec 2019	Jan 2020	Jan 2020 vs. Dec 2019	Jan 2020 vs. Jan 2019
Plant and equipment	100,00	105,9	106,3	108,5	2,1	2,5
Lifting and handling equipment and parts thereof	7,57	107,6	107,5	107,5	0,0	-0,1
Machinery for mining, quarrying and construction and parts thereof	36,90	102,6	102,8	105,0	2,1	2,3
Moving, grading, levelling, scraping, excavating, tamping, compacting and extracting machinery	28,38	102,0	101,9	104,2	2,3	2,2
Machinery for sorting, screening, separating, washing, crushing, grinding, mixing and kneading of construction material	8,52	104,5	105,9	107,5	1,5	2,9
Lorries, trucks and vans exceeding 3,5 tons	55,53	108,0	108,4	111,0	2,4	2,8

**Table 5 - Mechanical and electrical engineering input price indices**

Service	Weight	Index (Dec 2016=100)			Percentage change	
		Jan 2019	Dec 2019	Jan 2020	Jan 2020 vs. Dec 2019	Jan 2020 vs. Jan 2019
Mechanical engineering	100,00	108,9	113,0	112,3	-0,6	3,1
Electrical engineering	100,00	112,2	113,8	113,6	-0,2	1,2

**Table 6 - Civil engineering material price indices<sup>1</sup>**

Product	Index (Dec 2016=100)			Percentage change	
	Jan 2019	Dec 2019	Jan 2020	Jan 2020 vs. Dec 2019	Jan 2020 vs. Jan 2019
Civil engineering material - total	118,3	119,1	120,2	0,9	1,6
Civil engineering material (excluding bitumen)	118,9	122,0	123,2	1,0	3,6
Civil engineering material (excluding reinforcing metal work)	117,2	118,0	119,3	1,1	1,8
Civil engineering material (excluding reinforcing metal work and bitumen)	117,6	121,6	123,2	1,3	4,8
Civil engineering material - structures (excluding bitumen)	123,6	124,9	125,7	0,6	1,7
Civil engineering material - roads, general	126,0	124,3	124,4	0,1	-1,3
Civil engineering material - roads, general (excluding bitumen)	128,3	127,8	128,0	0,2	-0,2
Civil engineering material - roads, refurbishment	124,9	122,0	122,4	0,3	-2,0
Civil engineering material - roads, refurbishment (excluding bitumen)	129,1	128,3	128,9	0,5	-0,2
Civil engineering material - roads, reseal	119,7	114,8	115,1	0,3	-3,8
Civil engineering material - roads, reseal (excluding bitumen)	126,3	126,1	127,1	0,8	0,6
Civil engineering material - bulk earthworks	122,4	122,7	123,4	0,6	0,8
Civil engineering material - bulk earthworks (excluding bitumen)	123,5	123,9	124,6	0,6	0,9

<sup>1</sup> The information in this table is published in conjunction with engineering associations SAFCEC and SAICE.



**EXPLANATORY NOTES**

<b>Contract Price Adjustment Provisions (CPAP)</b>	The CPAP work group indices are used for making adjustments based on cost fluctuations in labour, plant and materials.
<b>Sources for CPAP</b>	The CPAP work group indices are derived from changes in the cost structures prevailing in 37 different sectors of the building industry and are published by Stats SA on a monthly basis. The indices reported on in this publication are mainly based on a combination of PPI, SEIFSA and CPI indices for the particular month.
<b>Contract Price Adjustment Provisions Steering Committee</b>	The Committee is the oversight structure for the Construction Price Adjustment Provisions published by Statistics South Africa as release number P0151.1 and comprises of representatives of the following industry associations and organisations: The Association of South African Quantity Surveyors, Electrical Contractors' Association (SA), Master Builders South Africa, the South African Institute of Architects, and the National Department of Public Works and Statistics South Africa.
<b>Tax</b>	Value added tax (VAT) are not included in these indices.
<b>CPAP manuals</b>	The updated CPAP manuals "CPAP Application Manual" and "CPAP Work Groups Composition and Weighting of Sub-Indices" are obtainable from The Association of the South African Quantity Surveyors – ASAQS, website: <a href="http://www.asaqs.co.za">www.asaqs.co.za</a> - search for CPAP, or by phoning (012) 310 8077.
<b>Construction Input Price Indices (CIPI)</b>	The index reflects material purchases in the construction industry

**GLOSSARY**

<b>SAFCEC</b>	South African Forum of Civil Engineering Contractors
<b>SAICE</b>	South African Institution of Civil Engineering
<b>SEIFSA</b>	Steel and Engineering Industries Federation of Southern Africa
<b>PPI</b>	Producer Price Index
<b>CPI</b>	Consumer Price Index
<b>CPAP</b>	Contract Price Adjustment Provisions
<b>CIPI</b>	Construction Input Price Indices
<b>r</b>	Revised

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