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Construction Materials Price Indices

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KEY FINDINGS: CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)

In July 2018, month-on-month percentage changes in the CPAP work group indices ranged from -0,1% for work group 122 to 6,9% for work group 172 (Table 1).

Noteworthy changes in July 2018 were as follows:

- **Work group 172:** The index increased by 6,9% month-on-month. There were increases of 8,3% month-on-month in SEIFSA for Metal price – Copper metric ton (accounting for 40% of this work group) and 6,8% month-on-month in SEIFSA for All hourly paid employees (accounting for 45%).
- **Work group 171:** The index increased by 5,4% month-on-month. There were increases of 6,8% month-on-month in SEIFSA for All hourly paid employees (accounting for 40% of this work group) and 4,6% month-on-month in SEIFSA for Galvanised sheets (accounting for 50%).
- **Work group 162:** The index increased by 4,6% month-on-month. There were increases of 7,8% month-on-month in SEIFSA for Copper 7,9 mm rod (accounting for 45% of this work group) and 4,6% month-on-month in Galvanised sheets (accounting for 20%).
- **Work group 160:** The index increased by 4,2% month-on-month. There were increases of 7,8% month-on-month in SEIFSA for Copper 7,9 mm rod (accounting for 35% of this work group) and 6,8% month-on-month in SEIFSA for All hourly paid employees (accounting for 20%).
- **Work group 124:** The index increased by 4,0% month-on-month. There was an increase of 4,6% month-on-month in SEIFSA for Galvanised sheets (accounting for 85% of this work group).
- **Work group 122:** The index decreased by 0,1% month-on-month. There was a decrease of 0,6% month-on-month in the PPI index for Roof tiles (accounting for 40% of this work group).

KEY FINDINGS: CONSTRUCTION INPUT PRICE INDICES (CIPI)

- **Total construction:** The index increased by 1,7% month-on-month, mainly due to civil engineering (2,5%) (Table 2).
- **Civil engineering material – total:** The index increased by 2,5% 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 Alterations	104 Earthworks	106 Piling	110 Concrete (excluding formwork)	111 Formwork	112 Precast concrete	113 Post tensioning	114 Reinforcement
2017	Jul	103,2	102,2	103,1	106,4	102,2	103,1	100,9	103,7
	Aug	103,3	102,3	103,8	106,7	102,3	103,7	100,9	107,3
	Sep	103,8	102,3	104,6	107,3	102,6	105,1	106,0	111,6
	Oct	104,1	102,8	105,3	107,1	102,8	105,5	110,9	114,2
	Nov	104,2	103,2	105,5	106,7	102,8	105,4	110,9	114,2
	Dec	104,7	103,3	106,1	107,8	103,4	107,3	111,0	115,7
2018	Jan	105,0	103,7	107,5	111,4	104,4	108,8	116,1	116,5
	Feb	105,8	104,4	107,4	109,8	105,6	109,0 r	116,3	116,7
	Mar	106,2	104,3	107,7	111,9	106,1	109,9 r	116,4	116,8
	Apr	107,0	104,7	107,9	111,7	105,9	109,6	116,7	117,4
	May	107,2	104,8	108,2	112,2	105,9	109,7	116,7	117,4
	Jun	107,6	105,1	108,2	111,9	106,1	109,7	116,8	117,5
	Jul	108,5	105,6	108,7	113,0	107,0	110,9	117,1	117,7

Year and month		116 Brick and block work	118 Masonry	120 Water proofing	122 Non metal roofing	124 Metal roofing (steel)	125 Metal roofing (aluminium)	126 Carpentry and joinery	129 Ceilings
2017	Jul	102,0	102,5	105,8	103,6	100,3	102,9	101,7	105,6
	Aug	102,1	103,0	106,1	103,6	100,3	103,4	102,2	104,4
	Sep	102,2	103,3	106,4	103,7	103,8	107,2	102,3	105,6
	Oct	102,6	103,8	106,8	103,7	107,2	108,6	102,8	105,6
	Nov	102,7	104,3	107,5	103,8	107,3	109,9	103,1	105,8
	Dec	101,2	103,6	108,5	103,9	107,3	109,9	103,2	106,6
2018	Jan	102,3	102,3	105,9	103,9	92,5	109,9	103,1	110,3
	Feb	100,7	102,1	106,9	108,6	92,6	110,0	105,7	100,8 r
	Mar	101,1	102,3	103,7	109,4	92,6	110,1	106,2	102,3 r
	Apr	101,4	103,1	103,2	109,6	92,8	110,1	106,7	102,4
	May	100,3	103,1	105,4	109,2	92,8	110,2	106,5	102,1
	Jun	100,3	104,7	110,7	109,8	92,8	110,2	106,2	103,1
	Jul	100,5	105,3	115,0	109,7	96,5	110,3	106,6	103,8

Year and month		130 Resilient floor and wall coverings	132 Ironmongery	134 Structural steelwork in buildings	136 Metalwork	138 Partitioning systems	140 Aluminium work	141 Stainless steel work	142 In situ finishes
2017	Jul	101,6	103,0	101,6	100,2	102,2	101,3	104,5	105,7
	Aug	101,7	103,1	101,6	100,2	102,3	101,3	103,4	105,9
	Sep	103,2	103,2	102,1	101,1	103,2	104,7	102,4	106,1
	Oct	103,2	103,2	102,3	101,2	103,4	105,9	105,3	106,2
	Nov	103,2	103,3	102,3	101,2	103,7	107,1	108,5	106,1
	Dec	103,4	103,4	103,1	103,2	104,4	107,3	109,2	106,5
2018	Jan	103,4	103,4	105,6	106,0	104,4	107,5	111,7	107,7
	Feb	103,6	103,6	105,7	105,9 r	106,5 r	107,8	109,1	108,0
	Mar	104,4	103,7	105,9	106,0 r	106,6 r	106,8	107,6	109,1
	Apr	107,5	103,9	104,4	103,7	106,7	107,3	109,8	109,6
	May	107,5	103,9	104,5	103,7	106,7	107,3	110,9	109,8
	Jun	107,6	104,0	105,0	104,1	107,0	111,0	111,1	110,0
	Jul	107,8	105,4	106,4	106,1	107,6	111,3	114,2	110,9

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
2017	Jul	102,5	101,2	101,4	101,3	100,3	103,6	101,8	100,5
	Aug	102,6	101,2	101,4	101,3	100,3	103,8	102,1	103,2
	Sep	102,8	101,5	99,6	102,8	100,4	104,7	104,2	107,7
	Oct	102,7	102,0	101,3	103,4	100,4	104,9	104,8	110,7
	Nov	102,7	102,0	102,3	104,0	100,4	105,0	106,7	114,4
	Dec	102,9	102,3	102,6	104,2	100,5	105,3	112,0	115,2
2018	Jan	103,2	103,3	103,7	104,3	100,5	106,0	114,7	107,3
	Feb	103,7	103,8	103,4	104,6	100,6	106,6	112,2	106,1
	Mar	105,7	104,1	103,3	104,3	100,6	107,2	111,1	103,8
	Apr	106,0	104,4	103,9	104,7	100,7	108,2	110,8	102,8
	May	106,1	104,0	103,7	104,7	100,7	108,2	112,8	105,8
	Jun	106,3	104,2	103,9	106,3	100,8	108,5	114,3	108,0
	Jul	106,6	105,5	105,3	106,7	100,9	109,1	116,8	112,5

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
2017	Jul	100,0	102,1	102,7	101,8	102,9	102,2	102,5	102,0
	Aug	103,0	102,1	102,7	104,4	104,4	102,7	103,0	102,3
	Sep	108,5	102,8	104,7	108,2	104,4	103,4	104,0	102,9
	Oct	111,7	103,8	106,7	108,9	104,4	104,2	104,9	103,8
	Nov	117,0	104,0	106,7	112,5	104,4	104,8	105,5	104,4
	Dec	117,3	104,4	106,7	114,1	104,4	104,9	106,1	105,0
2018	Jan	107,0	104,4	98,7	110,7	104,6	104,4	105,8	105,0
	Feb	106,3	104,4 r	98,7	109,0	104,8	104,4	105,7 r	105,3
	Mar	103,8	104,1 r	98,7	107,0	105,1	104,6	105,8	104,7
	Apr	102,2	105,0	97,9	105,4	104,6	104,9	106,1	106,0
	May	108,5	105,3	97,9	106,9	105,1	105,0	106,5	107,1
	Jun	110,2	106,2	97,9	108,6	106,1	105,5	107,1	108,4
	Jul	115,3	109,0	103,2	116,1	109,3	106,7	108,5	109,2

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

Service		Weight	Index (Dec 2016=100)			Percentage change	
			Jul 2017	Jun 2018	Jul 2018	Jul 2018 vs. Jun 2018	Jul 2018 vs. Jul 2017
Total construction		100,00	103,5	108,6	110,4	1,7	6,7
	Site preparation	0,97	102,7	105,1	106,7	1,5	3,9
	Construction of buildings	23,96	102,8	103,7	104,2	0,5	1,4
	Civil engineering	36,88	105,6	114,0	116,9	2,5	10,7
	Other structures	1,54	103,0	107,4	109,9	2,3	6,7
	Construction by specialist trade contractors	6,07	100,5	104,7	106,2	1,4	5,7
	Plumbing	1,72	99,4	100,7	101,6	0,9	2,2
	Electrical contractors	8,06	102,3	106,9	110,8	3,6	8,3
	Shopfitting	0,52	103,9	106,1	106,4	0,3	2,4
	Other building installation	7,63	101,9	106,3	107,3	0,9	5,3
	Painting and decorating	1,06	104,1	109,2	109,2	0,0	4,9
	Other building completion	8,35	102,5	107,2	108,3	1,0	5,7
	Renting of construction or demolition equipment with operators	3,24	102,8	107,8	108,7	0,8	5,7

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

Product	Weight	Index (Dec 2016=100)			Percentage change	
		Jul 2017	Jun 2018	Jul 2018	Jul 2018 vs. Jun 2018	Jul 2018 vs. Jul 2017
Total construction	100,00	103,5	108,6	110,4	1,7	6,7
Construction stone and sand	9,23	130,9	130,8	133,1	1,8	1,7
Aggregate stone	7,93	130,9	130,7	133,3	2,0	1,8
Sand	0,82	130,9	133,0	132,6	-0,3	1,3
Granite, sandstone and other monumental and building stone	0,48	130,9	128,7	129,3	0,5	-1,2
Carpets (excluding mats and rugs)	1,00	104,0	107,5	107,5	0,0	3,4
Boards of wood	1,69	104,9	110,3	110,3	0,0	5,1
Builders' carpentry of wood	1,59	104,1	98,8	98,6	-0,2	-5,3
Paints	2,92	104,4	110,2	110,2	0,0	5,6
Prepared explosives	0,34	104,7	105,9	109,6	3,5	4,7
Construction tyres	0,63	105,8	106,7	106,7	0,0	0,9
Construction pipes, tubes and fittings	3,24	97,6	100,0	101,9	1,9	4,4
Tubes, pipes, tube-fittings and pipe-fittings of copper	1,23	99,4	99,9	101,8	1,9	2,4
Concrete pipes	0,38	116,8	130,4	138,7	6,4	18,8
Construction plastic pipes, tubes and fittings	1,63	91,9	93,1	93,5	0,4	1,7
Adhesive and sealant	0,31	112,3	115,0	115,0	0,0	2,4
Vinyl sheeting and flooring	0,04	104,8	111,4	111,4	0,0	6,3
Non-structural ceramic ware	0,34	102,3	100,3	100,3	0,0	-2,0
Construction bricks and tiles	11,93	101,8	100,3	100,1	-0,2	-1,7
Bricks	10,77	101,4	99,4	99,2	-0,2	-2,2
Tiles	1,16	105,6	109,3	109,0	-0,3	3,2
Cement	11,67	104,0	108,2	109,2	0,9	5,0
Ready-mix concrete	5,68	86,4	84,5	83,6	-1,1	-3,2
Ceiling boards	1,38	102,3	93,2	93,5	0,3	-8,6
Prefabricated cement and concrete components	0,98	105,7	114,6	114,6	0,0	8,4
Pre-mix asphalt	0,08	99,8	100,7	114,5	13,7	14,7
Bituminous mixtures	8,28	95,7	118,7	125,4	5,6	31,0
Construction structural and reinforcing steel	18,41	101,7	111,7	114,6	2,6	12,7
Bars and rods of iron or steel	9,16	101,7	113,0	117,1	3,6	15,1
Reinforcing metal work	2,38	102,1	106,2	109,0	2,6	6,8
Angles, shapes, sections and similar products of iron or steel	1,21	98,9	120,9	127,0	5,0	28,4
Equipment for scaffolding, shuttering and propping	1,95	102,1	109,7	110,2	0,5	7,9
Welded angles, shapes and sections for use in manufactured structures	2,97	102,1	109,7	110,2	0,5	7,9
Steel door and window frames	0,74	102,1	110,3	110,3	0,0	8,0
Wire of iron or steel	0,18	100,1	108,3	111,9	3,3	11,8
Construction taps, cocks and valves	1,33	100,0	100,0	100,0	0,0	0,0
Construction pumps, compressors and refrigerator machinery	4,94	102,6	104,6	104,7	0,1	2,0
Construction electric motors, generators or transformers	0,90	100,7	105,9	106,5	0,6	5,8
Electrical components	1,97	102,3	114,0	114,0	0,0	11,4
Electrical cable	3,55	105,0	104,5	115,1	10,1	9,6
Construction, distribution and control equipment	5,44	100,0	106,1	106,1	0,0	6,1
Construction vehicle parts	1,95	101,2	104,6	105,2	0,6	4,0

Table 4 - Mining and construction plant and equipment price index

Product	Weight	Index (Dec 2016=100)			Percentage change	
		Jul 2017	Jun 2018	Jul 2018	Jul 2018 vs. Jun 2018	Jul 2018 vs. Jul 2017
Plant and equipment	100,00	100,7	101,7	101,8	0,1	1,1
Lifting and handling equipment and parts thereof	7,57	100,6	105,4	105,4	0,0	4,8
Machinery for mining, quarrying and construction and parts thereof	36,90	100,6	100,3	100,7	0,4	0,1
Moving, grading, levelling, scraping, excavating, tamping, compacting and extracting machinery	28,38	100,6	99,3	99,7	0,4	-0,9
Machinery for sorting, screening, separating, washing, crushing, grinding, mixing and kneading of construction material	8,52	100,6	103,8	103,8	0,0	3,2
Lorries, trucks and vans exceeding 3,5 tons	55,53	100,8	102,1	102,1	0,0	1,3

Table 5 - Mechanical and electrical engineering input price indices

Service	Weight	Index (Dec 2016=100)			Percentage change	
		Jul 2017	Jun 2018	Jul 2018	Jul 2018 vs. Jun 2018	Jul 2018 vs. Jul 2017
Mechanical engineering	100,00	100,6	107,5	108,6	1,0	8,0
Electrical engineering	100,00	101,5	110,9	114,7	3,4	13,0

Table 6 - Civil engineering material price indices¹

Product	Index (Dec 2016=100)			Percentage change	
	Jul 2017	Jun 2018	Jul 2018	Jul 2018 vs. Jun 2018	Jul 2018 vs. Jul 2017
Civil engineering material - total	105,6	114,0	116,9	2,5	10,7
Civil engineering material (excluding bitumen)	108,1	112,8	114,6	1,6	6,0
Civil engineering material (excluding reinforcing metal work)	107,1	114,8	117,6	2,4	9,8
Civil engineering material (excluding reinforcing metal work and bitumen)	109,5	112,7	114,1	1,2	4,2
Civil engineering material - structures (excluding bitumen)	110,0	116,2	118,8	2,2	8,0
Civil engineering material - roads, general	113,0	121,0	124,6	3,0	10,3
Civil engineering material - roads, general (excluding bitumen)	117,0	121,4	124,1	2,2	6,1
Civil engineering material - roads, refurbishment	111,6	121,3	125,2	3,2	12,2
Civil engineering material - roads, refurbishment (excluding bitumen)	119,0	122,6	125,1	2,0	5,1
Civil engineering material - roads, reseal	102,8	119,3	124,5	4,4	21,1
Civil engineering material - roads, reseal (excluding bitumen)	117,4	120,3	122,1	1,5	4,0
Civil engineering material - bulk earthworks	111,6	116,2	118,7	2,2	6,4
Civil engineering material - bulk earthworks (excluding bitumen)	113,4	116,7	118,9	1,9	4,9

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

EXPLANATORY NOTES

Contract Price Adjustment Provisions (CPAP)	The CPAP work group indices are used for making adjustments based on cost fluctuations in labour, plant and materials.
Sources for CPAP	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.
Haylett Formula	The indices contained in this release are calculated and published for use in conjunction with the "Haylett Formula".
Tax	Value added tax (VAT) are not included in these indices.
CPAP manuals	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: www.asaqs.co.za - search for CPAP, or by phoning (012) 310 2185.
Construction Input Price Indices (CIPI)	The index reflects material purchases in the construction industry

GLOSSARY

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

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