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KEY FINDINGS: CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)

In February 2018, month-on-month percentage changes in the CPAP work group indices ranged from -8,8% for work group 129 to 4,5% for work group 122 (Table 1).

Noteworthy changes in February 2018 were as follows:

- **Work group 122**: The index increased by 4,5% month-on-month. There was an increase of 8,2% month-on-month in the PPI for Prefabricated cement and concrete components, which accounts for 40,0% of this work group.

- **Work group 126**: The index increased by 2,5% month-on-month. There was an increase of 5,2% month-on-month in the PPI for Boards of woods, which accounts for 30,0% of this work group.

- **Work group 141**: The index decreased by 2,3% month-on-month. There was a decrease of 6,3% month-on-month in SEIFSA for Stainless Steel Flat Products Cold Rolled 304b, which accounts for 25,0% of this work group, and a decrease of 3,9% month-on-month in SEIFSA for Stainless Steel Flat Products Cold Rolled 316b, which accounts for 25,0% of this work group.

- **Work group 129**: The index decreased by 8,8% month-on-month. There was a decrease of 14,6% month-on-month in the PPI for Ceiling boards, which accounts for 60,0% of this work group.

KEY FINDINGS: CONSTRUCTION INPUT PRICE INDICES (CIPI)

- **Total construction:** The index decreased by 1,0% month-on-month, mainly due to construction of buildings (-1,1%) and civil engineering (-1,4%) (Table 2).

- **Civil engineering material – total:** The index decreased by 1,4% month-on-month, mainly due to construction stone and sand (-5,4%) (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	Feb	101,7	101,1	101,6	102,7	100,7	101,6	100,5	103,4
	Mar	102,3	101,4	101,5	101,5	101,7	101,8	100,6	103,5
	Apr	102,4	102,0	102,0	101,8	101,9	101,3	100,6	103,5
	May	102,7	102,2	103,0	105,4	102,1	102,7	100,7	103,6
	Jun	102,9	102,0	102,8	105,6	102,1	102,8	100,8	103,7
	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 r	111,4	103,5	108,5 r	111,1	116,5 r
	Feb	105,8	104,4	107,4	109,8	104,7	108,3	111,3	116,7

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	Feb	100,6	100,6	105,2	101,1	101,0	100,6	97,7	100,9
	Mar	100,5	101,3	105,4	101,2	101,7	101,2	98,2	104,1
	Apr	100,9	101,4	105,8	101,3	101,7	102,0	99,8	104,2
	May	101,8	101,3	106,1	102,3	101,7	102,5	101,5	104,3
	Jun	102,2	101,8	106,1	102,4	100,3	102,5	101,2	104,2
	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	107,4	109,9	103,1	110,3
	Feb	100,7	102,1	106,9	108,6	107,5	110,0	105,7	100,6

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	Feb	100,5	100,4	100,9	100,6	99,5	100,7	105,4	102,2
	Mar	100,9	102,8	101,2	100,8	100,8	100,9	105,0	102,0
	Apr	101,2	102,9	101,2	99,9	100,6	101,0	106,2	102,3
	May	101,6	102,9	101,3	100,0	102,1	101,1	106,3	105,0
	Jun	101,6	103,0	101,4	100,1	102,1	101,2	105,1	105,2
	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	103,3	103,3	104,4	107,5	111,7	107,7
	Feb	103,6	103,6	103,4	102,7	106,3	107,8	109,1	108,0

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

Base: Dec 2016=100

Year and month		144 Tiling	146 Drainage	148 Plumbing	149 Aluminium shop fronts and pre-glazed windows	150 Glazing	152 Painting	154 Roadwork	160 Electrical installations
2017	Feb	101,6	103,0	102,9	100,7	100,2	101,4	104,3	101,6
	Mar	101,8	103,4	102,9	100,9	100,2	102,9	103,4	102,1
	Apr	102,2	103,5	103,2	101,0	100,2	103,0	103,0	100,6
	May	102,3	103,6	103,1	101,1	100,3	103,2	103,5	101,0
	Jun	102,4	103,8	102,7	101,2	100,3	103,4	102,0	98,7
	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	110,4
	Feb	103,7	103,8	103,4	104,6	100,6	106,6	112,2	109,2

Year and month		162 Electrical reticulation	170 Mechanical services	171 Ductwork installations	172 Refrigeration installations	173 Steel water pipe installations	180 Lump sum domestic buildings	181 Commercial/industrial buildings	190 Lump sum preliminaries
2017	Feb	101,3	100,3	100,4	101,2	100,3	101,1	101,4	101,5
	Mar	101,9	100,3	100,8	101,5	100,3	101,3	101,7	101,9
	Apr	101,3	100,0	100,8	99,6	100,3	101,5	101,8	102,2
	May	102,3	100,0	100,8	100,4	100,3	102,4	102,5	102,7
	Jun	99,7	99,9	99,9	99,0	100,3	102,1	102,2	102,5
	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	110,5	104,4	106,7	110,4	104,1	105,0	106,3 r	105,0
	Feb	109,8	104,1	106,7	108,7	104,3	105,0	106,1	105,3

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

Service		Weight	Index (Dec 2016=100)			Percentage change	
			Feb 2017	Jan 2018	Feb 2018	Feb 2018 vs. Jan 2018	Feb 2018 vs. Feb 2017
Total construction		100,00	100,8	107,9	106,8	-1,0	6,0
	Site preparation	0,97	98,6	104,1	104,2	0,1	5,7
	Construction of buildings	23,96	98,5	104,1	103,0	-1,1	4,6
	Civil engineering	36,88	102,5	112,8	111,2	-1,4	8,5
	Other structures	1,54	100,5	106,8	106,2	-0,6	5,7
	Construction by specialist trade contractors	6,07	99,2	105,7	102,3	-3,2	3,1
	Plumbing	1,72	101,0	101,4	101,4	0,0	0,4
	Electrical contractors	8,06	101,9	106,4	105,7	-0,7	3,7
	Shopfitting	0,52	101,4	103,1	106,2	3,0	4,7
	Other building installation	7,63	100,5	105,9	105,6	-0,3	5,1
	Painting and decorating	1,06	100,9	107,1	107,2	0,1	6,2
	Other building completion	8,35	100,5	105,4	105,5	0,1	5,0
	Renting of construction or demolition equipment with operators	3,24	100,7	105,8	106,0	0,2	5,3

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

Product		Weight	Index (Dec 2016=100)			Percentage change	
			Feb 2017	Jan 2018	Feb 2018	Feb 2018 vs. Jan 2018	Feb 2018 vs. Feb 2017
Total construction		100,00	100,8	107,9	106,8	-1,0	6,0
Construction stone and sand		9,23	100,9	138,0	130,6	-5,4	29,4
	Aggregate stone	7,93	100,9	139,7	130,9	-6,3	29,7
	Sand	0,82	100,9	129,0	131,1	1,6	29,9
	Granite, sandstone and other monumental and building stone	0,48	100,9	125,9	124,8	-0,9	23,7
Carpets (excluding mats and rugs)		1,00	100,6	104,0	104,1	0,1	3,5
Boards of wood		1,69	100,0	104,9	110,3	5,1	10,3
Builders' carpentry of wood		1,59	104,0	98,0	101,1	3,2	-2,8
Paints		2,92	100,9	107,8	108,0	0,2	7,0
Prepared explosives		0,34	97,4	104,7	105,9	1,1	8,7
Construction tyres		0,63	101,7	105,8	105,8	0,0	4,0
Construction pipes, tubes and fittings		3,24	102,4	101,6	101,6	0,0	-0,8
	Tubes, pipes, tube-fittings and pipe-fittings of copper	1,23	99,7	103,7	103,7	0,0	4,0
	Concrete pipes	0,38	116,8	133,2	133,2	0,0	14,0
	Construction plastic pipes, tubes and fittings	1,63	101,1	92,8	92,8	0,0	-8,2
Adhesive and sealant		0,31	101,7	113,1	115,0	1,7	13,1
Vinyl sheeting and flooring		0,04	101,4	106,1	106,1	0,0	4,6
Non-structural ceramic ware		0,34	101,0	100,3	100,3	0,0	-0,7
Construction bricks and tiles		11,93	101,2	100,1	99,7	-0,4	-1,5
	Bricks	10,77	100,7	99,5	98,9	-0,6	-1,8
	Tiles	1,16	105,7	105,1	106,6	1,4	0,9
Cement		11,67	104,7	105,6	104,8	-0,8	0,1
Ready-mix concrete		5,68	83,7	85,9	85,0	-1,0	1,6
Ceiling boards		1,38	101,0	106,1	90,6	-14,6	-10,3
Prefabricated cement and concrete components		0,98	105,3	107,7	114,4	6,2	8,6
Pre-mix asphalt		0,08	100,5	100,6	100,5	-0,1	0,0
Bituminous mixtures		8,28	104,3	112,1	113,1	0,9	8,4

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

Product		Weight	Index (Dec 2016=100)			Percentage change	
			Feb 2017	Jan 2018	Feb 2018	Feb 2018 vs. Jan 2018	Feb 2018 vs. Feb 2017
Construction structural and reinforcing steel		18,41	100,9	109,9	108,3	-1,5	7,3
	Bars and rods of iron or steel	9,16	101,3	113,4	111,3	-1,9	9,9
	Reinforcing metal work	2,38	100,6	105,7	105,7	0,0	5,1
	Angles, shapes, sections and similar products of iron or steel	1,21	98,9	118,1	108,1	-8,5	9,3
	Equipment for scaffolding, shuttering and propping	1,95	100,6	104,2	104,7	0,5	4,1
	Welded angles, shapes and sections for use in manufactured structures	2,97	100,6	104,2	104,7	0,5	4,1
	Steel door and window frames	0,74	100,6	105,0	105,0	0,0	4,4
Wire of iron or steel		0,18	100,8	109,8	109,8	0,0	8,9
Construction taps, cocks and valves		1,33	100,0	100,0	100,0	0,0	0,0
Construction pumps, compressors and refridgerator machinery		4,94	100,0	104,6	104,6	0,0	4,6
Construction electric motors, generators or transformers		0,90	100,6	104,9	104,8	-0,1	4,2
Electrical components		1,97	101,0	108,8	108,8	0,0	7,7
Electrical cable		3,55	104,7	106,1	104,2	-1,8	-0,5
Construction, distribution and control equipment		5,44	100,0	106,1	106,1	0,0	6,1
Construction vehicle parts		1,95	99,0	103,4	102,7	-0,7	3,7

Table 4 - Mining and construction plant and equipment price index

Product		Weight	Index (Dec 2016=100)			Percentage change	
			Feb 2017	Jan 2018	Feb 2018	Feb 2018 vs. Jan 2018	Feb 2018 vs. Feb 2017
Plant and equipment		100,00	99,4	101,5	102,0	0,5	2,6
Lifting and handling equipment and parts thereof		7,57	98,7	105,4	105,4	0,0	6,8
Machinery for mining, quarrying and construction and parts thereof		36,90	98,7	101,2	101,1	-0,1	2,4
	Moving, grading, levelling, scraping, excavating, tamping, compacting and extracting machinery	28,38	98,7	100,8	100,8	0,0	2,1
	Machinery for sorting, screening, separating, washing, crushing, grinding, mixing and kneading of construction material	8,52	98,7	102,7	102,0	-0,7	3,3
Lorries, trucks and vans exceeding 3,5 tons		55,53	100,0	101,2	102,1	0,9	2,1

Table 5 - Mechanical and electrical engineering input price indices

Service	Weight	Index (Dec 2016=100)			Percentage change	
		Feb 2017	Jan 2018	Feb 2018	Feb 2018 vs. Jan 2018	Feb 2018 vs. Feb 2017
Mechanical engineering	100,00	101,1	105,0	104,5	-0,5	3,4
Electrical engineering	100,00	101,6	107,9	106,8	-1,0	5,1

Table 6 - Civil engineering material price indices[1]

Product	Index (Dec 2016=100)			Percentage change	
	Feb 2017	Jan 2018	Feb 2018	Feb 2018 vs. Jan 2018	Feb 2018 vs. Feb 2017
Civil engineering material - total	102,5	112,8	111,2	-1,4	8,5
Civil engineering material (excluding bitumen)	102,0	113,0	110,6	-2,1	8,4
Civil engineering material (excluding reinforcing metal work)	103,1	113,8	112,1	-1,5	8,7
Civil engineering material (excluding reinforcing metal work and bitumen)	102,1	112,9	110,5	-2,1	8,2
Civil engineering material - structures (excluding bitumen)	102,2	117,1	114,0	-2,6	11,5
Civil engineering material - roads, general	103,1	122,0	118,9	-2,5	15,3
Civil engineering material - roads, general (excluding bitumen)	102,6	124,3	120,0	-3,5	17,0
Civil engineering material - roads, refurbishment	103,2	121,4	118,5	-2,4	14,8
Civil engineering material - roads, refurbishment (excluding bitumen)	102,7	125,8	121,0	-3,8	17,8
Civil engineering material - roads, reseal	103,4	115,8	114,7	-0,9	10,9
Civil engineering material - roads, reseal (excluding bitumen)	102,2	122,6	118,5	-3,3	15,9
Civil engineering material - bulk earthworks	102,7	117,7	114,8	-2,5	11,8
Civil engineering material - bulk earthworks (excluding bitumen)	102,5	119,0	115,6	-2,9	12,8

[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

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