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CONTENTS

KEY FINDINGS	3
TABLE 1: CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP).....	3
TABLES 2 AND 3: CONSTRUCTION INPUT PRICE INDICES (CIP)	3
TABLE 4: MINING AND CONSTRUCTION PLANT AND EQUIPMENT PRICE INDEX	3
TABLE 5: MECHANICAL AND ELECTRICAL ENGINEERING INPUT PRICE INDICES	3
TABLE 6: CIVIL ENGINEERING MATERIAL PRICE INDICES.....	3
DETAILED RESULTS	4
Table 1 - Contract price adjustment provisions (CPAP) work group indices.....	4
Table 2 - Construction input price index (CIP): material purchases by type of service	6
Table 3 - Construction input price index (CIP): material purchases for whole industry	7
Table 4 - Mining and construction plant and equipment price index	8
Table 5 - Mechanical and electrical engineering input price indices	8
Table 6 - Civil engineering material price indices ¹	8
EXPLANATORY NOTES	9
GLOSSARY.....	9
GENERAL INFORMATION	10

KEY FINDINGS

TABLE 1: CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)

Noteworthy month-on-month changes in September 2022 were as follows:

Work group 125 – metal roofing (aluminium): the index increased by 3,4%. There was an increase of 3,8% in the SEIFSA index for aluminium products 99.7 EC grade rod (accounting for 90,0% of this work group).

Work group 150 – glazing: the index increased by 3,2%. There was an increase of 3,5% in the PPI for safety glass (accounting for 90,0% of this work group).

Work group 141 – stainless steel work: the index decreased by 11,3%. There was a decrease of 20,5% in the SEIFSA index for stainless steel flat products cold rolled 304b (accounting for 25,0% of this work group) and a decrease of 22,2% in the SEIFSA index for stainless steel flat products cold rolled 316b (accounting for 25,0% of this work group).

Work group 173 – steel water pipe installations: the index decreased by 4,4%. There was a decrease of 9,5% in the PPI for steel pipes (accounting for 40,0% of this work group).

TABLES 2 AND 3: CONSTRUCTION INPUT PRICE INDICES (CIPI)

The annual change in the index for total construction was 11,2% in September 2022. The index increased by 0,2% month-on-month.

There was an increase of 0,4% month-on-month in the index for civil engineering: building of complete structures (Table 2).

The following indices recorded noteworthy month-on-month changes: construction pumps, compressors and refrigerator machinery (9,1%), carpets (excluding mats and rugs) (4,6%), ready-mix concrete (3,9%), roof sheeting (-12,5%), construction basic metal products (-7,2%), nails, screws and metal fasteners (-4,3%) and bituminous mixtures (-4,2%) (Table 3).

TABLE 4: MINING AND CONSTRUCTION PLANT AND EQUIPMENT PRICE INDEX

The annual change in the index for plant and equipment was 10,4% in September 2022. The index increased by 0,4% month-on-month.

TABLE 5: MECHANICAL AND ELECTRICAL ENGINEERING INPUT PRICE INDICES

The annual change in the index for mechanical engineering was 16,5% in September 2022. The index increased by 1,3% month-on-month.

The annual change in the index for electrical engineering was 10,5% in September 2022. The index increased by 0,7% month-on-month.

TABLE 6: CIVIL ENGINEERING MATERIAL PRICE INDICES

The annual change in the total index (civil engineering material) was 12,9% in September 2022. The index decreased by 0,4% month-on-month.

Risenga Maluleke
Statistician-General

DETAILED RESULTS

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

Base: Dec 2021=100

Year and month		102 Alterations	104 Earthworks	106 Piling	110 Concrete (excluding formwork)	111 Formwork	112 Precast concrete	113 Post tensioning	114 Reinforcement
2021	Sep	98,7	99,1	99,6	100,8	98,9	99,6	99,7	99,6
	Oct	99,0	99,3	99,6	100,5	99,5	99,8	99,8	99,5
	Nov	99,4	99,7	99,7	100,3	99,7	99,8	99,9	98,8
	Dec	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
2022	Jan	100,2	102,5	103,6	106,3	100,1	102,1	103,1	100,2
	Feb	100,8	102,9	103,9	105,0	100,3	102,1	105,0	102,8
	Mar	101,8	104,2	104,6	104,8	101,1	102,4	105,3	102,5
	Apr	102,4	104,6	105,3	104,3	103,3	104,8	113,4	106,2
	May	103,1	105,1	106,7	105,8	104,0	106,5	113,6	111,6
	Jun	104,2	105,8	107,5	108,9	105,4	107,9	113,9	109,4
	Jul	105,8	107,4	108,4	109,7	105,8	108,1	114,3	108,2
	Aug	106,0	107,8	108,2	109,2	105,3	107,3	114,4	105,6
	Sep	106,1	108,1	108,4	109,5	105,4	107,4	114,4	105,4

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
2021	Sep	99,6	100,3	93,0	100,3	99,6	90,7	98,8	99,9
	Oct	99,7	100,1	95,7	99,8	99,7	100,0	99,3	99,5
	Nov	99,8	100,3	100,6	99,9	99,9	104,8	99,8	99,8
	Dec	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
2022	Jan	100,9	101,1	98,7	100,5	100,0	101,4	100,2	100,8
	Feb	100,4	99,4	101,7	104,5	100,0	108,8	100,3	104,1
	Mar	100,8	98,3	105,2	105,0	100,2	116,7	102,2	106,6
	Apr	99,7	100,5	116,7	102,8	102,0	117,8	103,7	107,5
	May	102,4	100,2	119,7	104,7	102,1	120,4	104,1	109,8
	Jun	101,9	101,5	126,5	106,2	102,3	108,1	106,4	110,7
	Jul	103,1	102,3	131,7	107,9	103,3	106,0	106,1	112,0
	Aug	105,3	102,5	127,9	108,2	94,5	102,2	106,3	111,6
	Sep	102,7	103,7	124,1	109,5	94,5	105,7	106,5	111,5

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
2021	Sep	99,7	98,6	99,9	100,1	99,6	101,9	91,8	99,7
	Oct	99,8	98,6	100,0	100,1	99,4	99,6	96,0	99,8
	Nov	99,8	98,7	99,8	99,9	99,6	99,8	98,6	99,8
	Dec	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
2022	Jan	100,0	100,0	100,0	100,0	100,4	101,5	103,5	102,8
	Feb	105,6	100,2	100,2	100,0	101,5	107,4	103,9	102,6
	Mar	105,8	103,7	100,7	100,3	103,6	109,2	104,2	103,1
	Apr	106,0	103,8	105,5	107,1	106,0	110,9	107,3	103,2
	May	107,8	116,3	106,3	107,9	107,0	111,8	120,3	104,3
	Jun	108,1	120,5	106,8	108,2	109,0	111,3	117,1	106,4
	Jul	108,4	122,8	106,8	107,8	108,5	109,4	118,5	107,5
	Aug	108,5	122,8	105,2	105,9	108,7	109,5	113,5	107,4
	Sep	109,6	122,9	105,2	105,9	109,5	112,2	100,7	107,7

Table 1 - Contract price adjustment provisions (CPAP) work group indices (concluded)**Base: Dec 2021=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
2021	Sep	99,5	97,5	96,4	97,9	94,2	99,3	95,4	94,1
	Oct	99,6	97,6	97,4	98,7	97,8	99,3	96,7	95,2
	Nov	99,8	98,6	98,6	98,9	97,8	99,3	99,6	98,3
	Dec	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
2022	Jan	100,1	100,1	101,0	100,7	100,0	96,4	103,2	100,5
	Feb	100,3	100,5	101,5	103,5	100,6	101,1	103,3	101,6
	Mar	101,0	102,5	103,0	104,4	100,7	102,0	104,5	102,8
	Apr	101,2	104,4	104,7	105,3	100,8	102,7	109,0	104,6
	May	101,5	104,8	107,9	105,8	100,9	103,9	110,4	104,1
	Jun	102,0	105,7	107,8	105,9	101,0	104,1	113,6	101,8
	Jul	103,6	106,2	108,2	105,5	101,1	105,7	116,6	100,8
	Aug	106,6	106,1	107,2	105,6	101,1	106,0	115,6	95,5
	Sep	105,1	106,3	104,7	108,0	104,3	106,7	114,0	96,4

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	Preliminaries
2021	Sep	93,5	99,5	100,1	95,6	98,6	98,2	98,0	96,6
	Oct	94,9	99,5	100,1	94,8	98,2	98,6	98,5	97,0
	Nov	99,2	100,2	100,0	98,1	99,3	99,4	99,4	98,9
	Dec	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
2022	Jan	100,3	101,8	100,0	100,4	104,6	100,8	101,1	101,0
	Feb	102,9	102,7	100,0	100,6	106,1	101,5	102,1	102,0
	Mar	105,1	103,3	100,0	100,8	105,5	102,5	103,2	104,3
	Apr	106,3	104,1	101,8	101,9	106,5	103,5	104,6	106,0
	May	106,9	104,7	101,9	101,9	109,1	105,1	106,1	107,3
	Jun	102,4	106,4	101,9	100,6	109,2	105,6	106,7	109,0
	Jul	100,7	108,0	103,9	101,2	111,2	106,4	107,5	112,3
	Aug	92,9	107,9	98,7	96,8	113,2	105,8	106,5	111,8
	Sep	95,6	108,5	98,6	99,3	108,2	105,3	106,4	111,5

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

Service		Weight	Index (Dec 2021=100)			Percentage change	
			Sep 2021	Aug 2022	Sep 2022	Sep 2022 vs. Aug 2022	Sep 2022 vs. Sep 2021
Total construction		100,00	98,5	109,3	109,5	0,2	11,2
	Site preparation	1,54	94,5	111,7	112,5	0,7	19,0
	Civil engineering: Building of complete structures	63,23	98,6	109,6	110,0	0,4	11,6
	Building installation	16,86	98,8	106,4	106,8	0,4	8,1
	Building completion	16,13	98,8	110,6	110,6	0,0	11,9
	Renting of construction or demolition equipment with operators	2,24	97,2	109,0	103,5	-5,0	6,5

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

Product	Weight	Index (Dec 2021=100)			Percentage change	
		Sep 2021	Aug 2022	Sep 2022	Sep 2022 vs. Aug 2022	Sep 2022 vs. Sep 2021
Total construction	100,00	98,5	109,3	109,5	0,2	11,2
Construction stone and sand	4,55	97,3	105,5	105,0	-0,5	7,9
Aggregate stone	3,25	96,9	107,0	105,8	-1,1	9,2
Sand	0,39	98,6	107,3	106,2	-1,0	7,7
Granite, sandstone and other monumental and building stone	0,91	101,4	99,5	101,7	2,2	0,3
Carpets (excluding mats and rugs)	2,19	100,0	107,5	112,4	4,6	12,4
Boards of wood	0,36	100,0	109,0	109,0	0,0	9,0
Builders' carpentry of wood	0,16	101,3	109,1	110,2	1,0	8,8
Paints	2,31	100,1	105,9	107,8	1,8	7,7
Construction tyres	0,38	100,0	115,7	118,0	2,0	18,0
Construction pipes, tubes and fittings	5,35	95,9	106,2	106,6	0,4	11,2
Tubes, pipes, tube-fittings and pipe-fittings of copper	1,04	92,7	96,2	96,0	-0,2	3,6
Concrete pipes	0,33	91,8	88,3	94,6	7,1	3,1
Construction plastic pipes, tubes and fittings	3,98	100,0	110,3	110,3	0,0	10,3
Adhesive and sealant	0,84	100,0	106,8	106,8	0,0	6,8
Vinyl sheeting and flooring	1,37	100,0	110,0	110,0	0,0	10,0
Construction bricks and tiles	7,48	100,5	105,7	103,6	-2,0	3,1
Bricks	3,71	100,4	104,8	102,2	-2,5	1,8
Tiles	3,77	101,1	106,6	104,9	-1,6	3,8
Cement	8,27	104,2	112,3	113,9	1,4	9,3
Ready-mix concrete	9,91	105,3	105,2	109,3	3,9	3,8
Ceiling boards	1,00	99,7	113,6	112,6	-0,9	12,9
Roof sheeting	0,53	95,2	107,6	94,2	-12,5	-1,1
Pre-mix asphalt	3,92	95,2	114,1	113,9	-0,2	19,6
Bituminous mixtures	3,36	90,4	139,5	133,6	-4,2	47,8
Construction structural and reinforcing steel	25,10	97,9	109,8	109,2	-0,5	11,5
Reinforcing metal work	9,01	99,8	105,4	105,2	-0,2	5,4
Equipment for scaffolding, shuttering and propping	1,66	92,7	116,3	116,3	0,0	25,5
Welded angles, shapes and sections for use in manufactured structures	8,13	93,5	113,2	111,7	-1,3	19,5
Steel door and window frames	6,30	100,0	110,0	110,0	0,0	10,0
Construction basic metal products	1,45	99,3	112,2	104,1	-7,2	4,8
Bars and rods of iron or steel	0,86	99,1	107,8	107,8	0,0	8,8
Angles, shapes, sections and similar products of iron or steel	0,38	100,0	122,5	92,1	-24,8	-7,9
Wire of iron or steel	0,21	99,8	111,9	110,0	-1,7	10,2
Construction pumps, compressors and refrigerator machinery	0,94	98,4	105,7	115,3	9,1	17,2
Construction electric motors, generators or transformers	3,77	98,0	116,1	117,5	1,2	19,9
Electrical components	3,63	98,3	103,1	103,1	0,0	4,9
Electrical cable	5,93	98,7	100,6	102,2	1,6	3,5
Construction, distribution and control equipment	5,98	100,0	109,3	109,6	0,3	9,6
Nails, screws and metal fasteners	1,22	101,5	104,8	100,3	-4,3	-1,2

Table 4 - Mining and construction plant and equipment price index

Product	Weight	Index (Dec 2021=100)			Percentage change	
		Sep 2021	Aug 2022	Sep 2022	Sep 2022 vs. Aug 2022	Sep 2022 vs. Sep 2021
Plant and equipment	100,00	99,6	109,6	110,0	0,4	10,4
Lifting and handling equipment and parts thereof	5,55	100,0	105,2	105,2	0,0	5,2
Machinery for mining, quarrying and construction and parts thereof	17,94	99,0	108,5	111,1	2,4	12,2
Moving, grading, levelling, scraping, excavating, tamping, compacting and extracting machinery	11,78	99,3	107,9	108,5	0,6	9,3
Machinery for sorting, screening, separating, washing, crushing, grinding, mixing and kneading of construction material	6,16	98,0	109,7	116,1	5,8	18,5
Lorries, trucks and vans exceeding 3,5 tons	76,51	100,0	110,1	110,1	0,0	10,1

Table 5 - Mechanical and electrical engineering input price indices

Service	Weight	Index (Dec 2021=100)			Percentage change	
		Sep 2021	Aug 2022	Sep 2022	Sep 2022 vs. Aug 2022	Sep 2022 vs. Sep 2021
Mechanical engineering	100,00	96,4	110,9	112,3	1,3	16,5
Electrical engineering	100,00	98,2	107,7	108,5	0,7	10,5

Table 6 - Civil engineering material price indices¹

Product	Index (Dec 2021=100)			Percentage change	
	Sep 2021	Aug 2022	Sep 2022	Sep 2022 vs. Aug 2022	Sep 2022 vs. Sep 2021
Civil engineering material - total	97,4	110,4	110,0	-0,4	12,9
Civil engineering material (excluding bitumen)	99,5	109,1	108,3	-0,7	8,8
Civil engineering material (excluding reinforcing metal work)	97,2	117,1	115,5	-1,4	18,8
Civil engineering material (excluding reinforcing metal work and bitumen)	99,6	109,4	108,4	-0,9	8,8
Civil engineering material - structures (excluding bitumen)	98,8	109,1	108,0	-1,0	9,3
Civil engineering material - roads, general	96,2	113,4	111,7	-1,5	16,1
Civil engineering material - roads, general (excluding bitumen)	98,1	107,4	106,5	-0,8	8,6
Civil engineering material - roads, refurbishment	95,6	117,9	115,2	-2,3	20,5
Civil engineering material - roads, refurbishment (excluding bitumen)	98,5	108,0	106,6	-1,3	8,2
Civil engineering material - roads, reseal	93,1	129,1	124,3	-3,7	33,5
Civil engineering material - roads, reseal (excluding bitumen)	98,8	109,2	109,0	-0,2	10,3
Civil engineering material - bulk earthworks	97,8	109,9	109,5	-0,4	12,0
Civil engineering material - bulk earthworks (excluding bitumen)	98,5	107,9	107,6	-0,3	9,2

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

EXPLANATORY NOTES

Construction Input Price Indices (CIPI)	The index reflects material purchases in the construction industry
Contract Price Adjustment Provisions (CPAP)	The CPAP work group indices are used for making adjustments based on cost fluctuations in labour, plant and materials.
Contract Price Adjustment Provisions Steering Committee	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.
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 8077.
Respondent response rate	The respondent response rate for September 2022 was 97,5%. The rate was calculated by means of the total number of companies where prices were collected as a percentage of the total sample.
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.
Tax	Value added tax (VAT) are not included in these indices.

GLOSSARY

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

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