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Department:
Statistics South Africa
REPUBLIC OF SOUTH AFRICA

Private Bag X44, Pretoria, 0001, South Africa, ISibalo House, Koch Street, Salvokop, Pretoria, 0002
www.statssa.gov.za, info@statssa.gov.za, Tel +27 12 310 8911

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Construction Material Price Indices

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Andrew Rankhumise
Tel: (012) 406 3304

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Key findings

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

Noteworthy month-on-month changes in September 2024 were as follows:

Work group 116 – brick and block work: the index increased by 1,4%. There were changes of 3,1% in the PPI index for clay bricks (accounting for 45,0% of this group) and 0,8% in the PPI index for sand (accounting for 4,0% of this group).

Work group 173 – steel water pipe installations: the index increased by 0,7%. There were changes of 1,1% in the PPI index for steel pipes (accounting for 40,0% of this group) and 2,5% in the PPI index for fibre glass (accounting for 12,0% of this group).

Work group 114 – reinforcement: the index decreased by 2,6%. There was a change of -3,5% in the PPI index for reinforcing metal work (accounting for 75,0% of this group).

Work group 125 – metal roofing (aluminium): the index decreased by 3,2%. There was a change of -3,6% in the SEIFSA index for aluminium products 99.7 EC grade rod (accounting for 90,0% of this group).

Work group 162 – electrical reticulation: the index decreased by 3,4%. There were changes of -5,3% in the SEIFSA index for copper 7.9 mm rod (Table N) (accounting for 45,0% of this group) and -3,6% in the SEIFSA index for aluminium products 99.7 EC grade rod (accounting for 25,0% of this group).

Tables 2 and 3: Construction input price index (CIPI)

The annual change in the total construction index was 4,1% in September 2024. The index decreased by 0,5% month-on-month.

The following indices recorded noteworthy month-on-month changes:

- ready-mix concrete (1,0%);
- construction bricks and tiles (0,6%);
- prefabricated concrete and cement (0,6%);
- builders' carpentry of wood (0,4%);
- paints (-0,4%);
- bituminous mixtures (-0,5%);
- construction electric motors, generators or transformers (-0,6%); and
- construction structural and reinforcing steel (-1,8%).

Table 4: Mining and construction plant and equipment price indices

The annual change in the plant and equipment index was 7,9% in September 2024. The index remained unchanged month-on-month.

Table 5: Mechanical and electrical engineering input price indices

The annual change in the mechanical engineering index was 4,2% in September 2024. The index increased by 0,2% month-on-month.

The annual change in the electrical engineering index was 7,8% in September 2024. The index decreased by 0,5% month-on-month.

Table 6: Civil engineering material price indices

The annual change in the total index (civil engineering material) was 5,1% in September 2024. The index decreased by 0,1% month-on-month.

Risenga Maluleke
Statistician-General

Detailed results

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

Base: Dec 2023=100

Month and year	102	104	106	110	111	112	113	114
	Alterations	Earthworks	Piling	Concrete (excluding formwork)	Formwork	Precast concrete	Post tensioning	Reinforcement
Sep 2023	99,2	99,6	100,0	99,9	98,8	98,8	99,7	101,2
Oct 2023	100,1	100,0	100,3	100,3	99,3	99,1	100,0	101,1
Nov 2023	100,0	99,9	100,2	100,1	99,9	99,3	100,0	101,3
Dec 2023	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
Jan 2024	100,1	100,3	101,9	102,0	101,1	102,3	100,0	107,3
Feb 2024	101,1	100,9	102,9	105,3	100,7	103,0	105,7	106,5
Mar 2024	101,9	101,2	103,3	104,1	101,2	103,5	105,9	110,6
Apr 2024	102,1	101,8	103,6	103,8	101,9	103,7	106,0	109,9
May 2024	102,3	102,0	103,4	103,2	102,2	103,5	106,0	108,9
Jun 2024	102,4	102,0	103,2	102,8	102,4	103,3	106,1	108,0
Jul 2024	102,8	102,3	103,1	102,9	102,3	103,1	106,2	107,0
Aug 2024	102,9	105,3	105,3	103,8	101,8	102,6	106,2	103,3
Sep 2024	103,0	105,4	104,9	103,8	101,2	101,9	106,2	100,6

Month and year	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
Sep 2023	97,3	99,4	96,2	99,1	97,1	97,8	99,7	100,6
Oct 2023	96,4	98,4	100,4	98,5	97,2	99,2	99,5	101,1
Nov 2023	99,0	99,6	99,9	98,2	100,0	99,0	99,9	101,7
Dec 2023	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
Jan 2024	100,5	100,0	98,7	97,8	98,8	97,7	102,0	102,6
Feb 2024	99,4	100,9	99,3	99,6	98,9	98,9	101,7	103,3
Mar 2024	101,0	101,3	99,4	103,9	99,1	101,3	102,2	105,7
Apr 2024	102,0	100,0	98,6	102,6	99,1	101,3	103,4	105,7
May 2024	101,5	100,8	102,0	101,8	99,1	108,4	104,2	106,5
Jun 2024	98,9	99,7	101,8	102,8	99,1	107,3	104,4	107,0
Jul 2024	102,3	100,4	102,1	102,3	99,2	102,9	104,1	106,5
Aug 2024	101,2	100,1	101,8	102,0	99,3	99,3	104,1	106,4
Sep 2024	102,6	100,1	101,6	102,4	99,3	96,1	103,0	106,6

Month and year	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
Sep 2023	99,8	96,0	98,1	97,0	98,8	97,2	99,9	99,3
Oct 2023	100,0	96,7	98,5	97,3	98,5	96,2	99,8	99,9
Nov 2023	100,0	96,6	100,0	99,0	99,3	100,0	99,7	100,0
Dec 2023	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
Jan 2024	101,7	103,3	101,0	101,1	102,0	100,2	100,1	100,6
Feb 2024	101,9	103,5	100,1	99,8	101,9	100,6	100,6	102,5
Mar 2024	102,1	103,7	100,1	99,7	102,3	101,0	101,0	102,3
Apr 2024	102,2	103,8	100,6	100,1	103,4	101,0	101,1	102,5
May 2024	102,2	103,8	100,7	100,2	104,8	104,9	103,0	102,3
Jun 2024	102,2	103,8	100,7	100,2	104,8	104,0	103,1	102,1
Jul 2024	102,3	103,9	100,9	100,4	104,9	104,1	103,3	102,4
Aug 2024	102,3	103,9	99,7	98,9	105,0	104,2	103,3	102,8
Sep 2024	102,4	104,0	99,5	98,7	104,2	104,7	102,2	102,9

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

Base: Dec 2023=100

Month and year	144	146	148	149	150	152	154	160
	Tiling	Drainage	Plumbing	Aluminium shop fronts and pre-glazed windows	Glazing	Painting	Roadwork	Electrical installations
Sep 2023	99,6	99,7	99,8	98,7	99,9	100,5	100,0	98,9
Oct 2023	100,0	100,3	100,1	98,4	100,0	100,6	102,3	99,3
Nov 2023	100,0	100,2	100,1	100,0	100,0	100,4	100,8	98,8
Dec 2023	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
Jan 2024	100,1	99,8	99,9	100,1	100,0	100,6	100,9	99,4
Feb 2024	101,1	100,6	100,4	100,5	100,1	100,5	102,8	99,2
Mar 2024	101,4	101,1	99,6	101,6	102,3	101,6	103,4	100,1
Apr 2024	101,5	101,7	100,0	101,7	102,3	101,5	102,6	102,0
May 2024	101,6	104,0	102,1	103,4	102,3	101,9	103,8	106,0
Jun 2024	101,6	104,1	102,2	103,7	104,1	101,7	103,4	107,4
Jul 2024	101,8	105,1	102,9	103,9	104,1	102,0	103,3	106,2
Aug 2024	101,8	105,1	103,0	103,9	104,1	101,9	105,1	104,2
Sep 2024	101,9	105,1	102,7	104,2	104,1	101,8	104,8	102,1

Month and year	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
Sep 2023	98,6	99,0	98,1	100,7	98,2	98,9	99,4	100,5
Oct 2023	99,1	99,0	98,1	101,2	97,7	99,1	99,8	102,4
Nov 2023	98,2	99,4	100,0	100,0	99,0	99,7	100,0	101,7
Dec 2023	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0
Jan 2024	99,1	99,5	99,5	101,6	99,4	100,4	100,7	99,3
Feb 2024	99,4	99,5	99,2	101,6	98,4	100,7	101,2	100,5
Mar 2024	100,5	99,9	99,3	101,9	100,4	101,3	101,8	101,6
Apr 2024	101,9	99,8	99,2	103,5	99,6	101,9	102,2	102,0
May 2024	107,9	101,0	99,2	107,7	99,4	102,5	103,1	101,9
Jun 2024	109,6	102,0	99,2	109,8	100,6	102,1	103,1	101,2
Jul 2024	106,6	103,5	101,8	110,3	103,3	102,8	103,3	101,3
Aug 2024	103,9	103,8	101,8	108,6r	105,1	102,5	103,1	103,0
Sep 2024	100,4	103,7	101,7	106,0	105,8	102,4	102,6	102,4

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

Service	Weight	Index (Dec 2023=100)			% change	
		Sep 2023	Aug 2024	Sep 2024	Sep 2024 vs. Aug 2024	Sep 2024 vs. Sep 2023
Total construction	100,00	99,7	104,3	103,8	-0,5	4,1
Site preparation	1,57	99,8	104,8	104,3	-0,5	4,5
Civil engineering; Building of complete structures	63,93	99,7	104,3	103,8	-0,5	4,1
Building installation	16,98	99,7	105,0	104,7	-0,3	5,0
Building completion	15,33	99,7	103,5	103,1	-0,4	3,4
Renting of construction or demolition equipment with operators	2,19	100,5	104,3	103,8	-0,5	3,3

Table 3 – Construction input price index (CPI): material purchases for the whole industry

Product	Weight	Index (Dec 2023=100)			% change	
		Sep 2023	Aug 2024	Sep 2024	Sep 2024 vs. Aug 2024	Sep 2024 vs. Sep 2023
Total construction	100,00	99,7	104,3	103,8	-0,5	4,1
Construction stone and sand	5,01	102,7	107,5	107,5	0,0	4,7
Aggregate stone	4,00	103,9	109,7	109,6	-0,1	5,5
Sand	0,50	100,2	99,6	100,4	0,8	0,2
Granite, sandstone and other monumental and building stone	0,51	99,7	97,6	97,6	0,0	-2,1
Carpets (excluding mats and rugs)	2,07	100,0	107,5	107,5	0,0	7,5
Builders' carpentry of wood	1,35	101,9	105,5	105,9	0,4	3,9
Paints	2,75	103,0	99,9	99,5	-0,4	-3,4
Construction tyres	0,40	104,2	103,5	103,5	0,0	-0,7
Construction pipes, tubes and fittings	6,84	100,5	108,5	108,2	-0,3	7,7
Tubes, pipes, tube-fittings and pipe-fittings of copper	2,78	100,3	115,2	114,4	-0,7	14,1
Construction plastic pipes, tubes and fittings	4,06	100,0	103,9	103,9	0,0	3,9
Vinyl sheeting and flooring	1,28	100,0	100,0	100,0	0,0	0,0
Construction bricks and tiles	7,37	98,1	100,6	101,2	0,6	3,2
Bricks	3,27	96,5	100,7	101,9	1,2	5,6
Tiles	4,10	99,8	100,5	100,7	0,2	0,9
Cement	7,37	98,7	102,8	102,6	-0,2	4,0
Ready-mix concrete	9,26	101,8	104,3	105,3	1,0	3,4
Prefabricated concrete and cement	1,93	98,6	101,6	102,2	0,6	3,7
Ceiling boards	0,25	102,5	108,6	108,8	0,2	6,1
Pre-mix asphalt	4,08	93,0	100,2	100,2	0,0	7,7
Bituminous mixtures	2,88	95,0	100,1	99,6	-0,5	4,8
Construction structural and reinforcing steel	26,69	100,2	105,2	103,3	-1,8	3,1
Reinforcing metal work	14,43	102,1	103,4	99,8	-3,5	-2,3
Equipment for scaffolding, shuttering and propping	1,70	93,3	98,5	98,5	0,0	5,6
Welded angles, shapes and sections for use in manufactured structures	1,88	100,0	111,3	111,3	0,0	11,3
Steel door and window frames	8,68	100,0	107,5	107,5	0,0	7,5
Construction electric motors, generators or transformers	4,08	101,6	107,6	107,0	-0,6	5,3
Electrical components	3,79	97,7	109,3	109,3	0,0	11,9
Electrical cable	6,78	99,3	103,8	103,8	0,0	4,5
Construction electricity distribution and control equipment	4,73	100,0	100,0	100,0	0,0	0,0
Nails, screws and metal fasteners	1,09	100,0	104,7	104,7	0,0	4,7

Table 4 – Mining and construction plant and equipment price indices

Product	Weight	Index (Dec 2023=100)			% change		
		Sep 2023	Aug 2024	Sep 2024	Sep 2024 vs. Aug 2024	Sep 2024 vs. Sep 2023	
Plant and equipment	100,00	99,9	107,8	107,8	0,0	7,9	
Lifting and handling equipment and parts thereof	8,02	100,0	107,2	107,2	0,0	7,2	
Machinery for mining, quarrying and construction and parts thereof	20,09	99,8	101,7	102,0	0,3	2,2	
	Moving, grading, levelling, scraping, excavating, tamping, compacting and extracting machinery	13,69	99,8	100,8	100,7	-0,1	0,9
	Machinery for sorting, screening, separating, washing, crushing, grinding, mixing and kneading of construction material	6,40	99,7	103,8	104,6	0,8	4,9
Lorries, trucks and vans exceeding 3,5 tons	71,89	100,0	109,5	109,5	0,0	9,5	

Table 5 – Mechanical and electrical engineering input price indices

Service	Weight	Index (Dec 2023=100)			% change	
		Sep 2023	Aug 2024	Sep 2024	Sep 2024 vs. Aug 2024	Sep 2024 vs. Sep 2023
Mechanical engineering	100,00	100,0	104,0	104,2	0,2	4,2
Electrical engineering	100,00	97,5	105,6	105,1	-0,5	7,8

Table 6 – Civil engineering material price indices¹

Product	Index (Dec 2023=100)			% change	
	Sep 2023	Aug 2024	Sep 2024	Sep 2024 vs. Aug 2024	Sep 2024 vs. Sep 2023
Civil engineering material - total	99,7	104,9	104,8	-0,1	5,1
Civil engineering material (excluding bitumen)	99,8	105,2	105,0	-0,2	5,2
Civil engineering material (excluding reinforcing metal work)	98,3	104,9	104,9	0,0	6,7
Civil engineering material (excluding reinforcing metal work and bitumen)	99,7	104,8	104,9	0,1	5,2
Civil engineering material - structures (excluding bitumen)	100,4	104,9	104,8	-0,1	4,4
Civil engineering material - roads, general	99,9	103,5	103,3	-0,2	3,4
Civil engineering material - roads, general (excluding bitumen)	101,5	104,7	104,5	-0,2	3,0
Civil engineering material - roads, refurbishment	99,1	103,5	103,3	-0,2	4,2
Civil engineering material - roads, refurbishment (excluding bitumen)	101,7	104,7	104,6	-0,1	2,9
Civil engineering material - roads, reseal	96,6	101,9	101,6	-0,3	5,2
Civil engineering material - roads, reseal (excluding bitumen)	100,7	105,0	104,9	-0,1	4,2
Civil engineering material - bulk earthworks	100,5	104,1	103,9	-0,2	3,4
Civil engineering material - bulk earthworks (excluding bitumen)	101,2	104,6	104,4	-0,2	3,2

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

Glossary

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 (Stats SA) and includes representatives from the following industry associations and organisations: The Association of South African Quantity Surveyors (ASAQS), Electrical Contractors' Association (SA), Master Builders South Africa, South African Institute of Architects, Department of Public Works and Stats SA.
CPAP manuals	The updated CPAP manuals "CPAP Application Manual" and "CPAP Work Groups Composition and Weighting of Sub-Indices" are obtainable from ASAQS' website: www.asaqs.co.za – search for CPAP, or by phoning (012) 406 3304.
Respondent response rate	The respondent response rate for September 2024 was 98,7%. The rate was calculated using 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 38 different work activities 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) is not included in these indices.
Weights	Weights are updated according to the availability of new information, as follows: <ul style="list-style-type: none"> • Tables 1 and 6 are updated periodically in consultation with industry expert committees. • Tables 2, 3 and 5 are partially updated annually using Stats SA's supply and use tables, with effect from the January statistical release each year. • Table 4 is updated periodically using Stats SA's large sample survey for the manufacturing industry and SARS trade data. • Tables 2, 3, 4 and 5 are updated on a detailed level, using Stats SA's large sample surveys for the construction and manufacturing industries, approximately every three to four years.
Revised figures	The SEIFSA data is continuously updated and therefore Stats SA allows for revisions of the CPAP work group indices. Revisions will be promptly indicated in relevant tables to maintain transparency and accuracy.

Abbreviations

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

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Technical enquiries

Andrew Rankhumise Telephone number: (012) 406 3304
 Email: AndrewR@statssa.gov.za

Mr HOFFIE Cruywagen Email: Hoffie.Cruywagen@up.ac.za

General enquiries

User information services Telephone number: (012) 310 8600
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Postal address Private Bag X44, Pretoria, 0001

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