



TITLE	SPECIFICATION FOR MASTER PADLOCKS, CYLINDER LOCKS AND KEYS	REFERENCE	CP_TSSPEC_069	REV	4
		DATE:		March 2021	
		PAGE:	1	OF	47

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INTRODUCTION

As to control access to premises and equipment, padlocks and cylinder locks were introduced in the electrical network. To achieve standardisation and rationalisation in securing and accessibly to City Power's electrical infrastructure, a range of levels and approval are detailed in this document.

1 SCOPE

This specification covers City Power's requirements for colour coded padlocks, cylinder locks and keys. Each metal used in a padlock shall be uniform in quality, chemical composition, hardness and strength, and shall be free from blowholes, scale, cracks and other deleterious defects. When anticorrosion padlocks are required, shackles may be made of a material that is softer than casehardened steel or stainless steel, to ensure the durability of the padlock. The integrity of the system shall, however, not be compromised in any way.

2 NORMATIVE REFERENCES

The following documents contain provisions that through reference in the text constitute requirements of this standard. At the time of publication, the editions indicated were valid. All standards and specifications are subject to revision and parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

SANS 1533: *Standard specification for padlocks.*

SANS 4: *Locks, latches and associated furniture for doors (Domestic Type)*

SANS 26: *Zinc alloy die-castings*

SANS 200; *Copper alloy ingots and castings*

SANS 1303-1: *Wrought copper alloys Part 1: Chemical composition of copper-zinc alloys (non-leaded and leaded)*

ISO 9001: *Quality management systems — Requirements*

ISO 14001: *Environmental management systems — Requirements with guidance for use*

3 DEFINITIONS

The definitions and abbreviations in the above documents (Normative Reference) shall apply to this specification.

4 PADLOCK

4.1 General

- 4.1.1 The padlock shall be suitable for master keying and have key-alike facilities.
- 4.1.2 The padlock shall have spring opening, self-locking shackles.
- 4.1.3 The key shall be removable in the unlocked position of the shackle.
- 4.1.4 The padlock shall have a low cost scrap value.
- 4.1.5 Brass cylinder locks shall comply with the requirements of SANS 200 or SANS 1303-1.

FOREWORD

Recommendations for corrections, additions or deletions should be addressed to the:

Technology This specification was prepared by the following Work Group members:

Zolani Ngqwala Technology Services

The Work Group was appointed by the Distribution Study Committee, which, at the time of approval, comprised the following members:

Nolubabalo Makana	Metering (Revenue Services)
Arsenio Cossa	Metering
Masape Mokgadi Kahumba	Secondary Plant (Metering)
Katlego Mogale	Maintenance (Engineering Operations)
Gavin Jardine	Infrastructure Planning
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Hilda Nonkonyana	Infrastructure Planning
Anza Mudau	Infrastructure Planning
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Recommendations for corrections, additions or deletions should be addressed to the:

Technology Services Manager
City Power Johannesburg (SOC) Ltd
P O Box 38766
Booyens
2016

4.2 Type

The padlock shall be **Type CP**, as per requirements of this document.

Note: Type CP: - a padlock that has a pin tumbler mechanism.

4.3 Category

The padlock shall be category 2, as according to SANS 1533, which details the following requirements:

- 4.3.1 at least 6 key pins;
- 4.3.2 key combinations of at least 2 000 key variations;
- 4.3.3 anti-picking pins (anti-picking rollers);
- 4.3.4 anti-picking plates, and stop pins, to prevent a probe from reaching the locking bolt(s); and
- 4.3.5 double locking bolts.

4.4 Case

- 4.4.1 A solid case shall be made in one piece and the only openings shall be for inserting the shackle and the lock mechanism and, if necessary, for drainage. The diameter of a drainage hole shall not exceed 3 mm. Any other openings required during assembly of the padlock shall be individually plugged by pressing.
- 4.4.2 The padlock's body shall be manufactured from steel not brass.
- 4.4.3 The case shall have an indicative UV (Ultra Violet) resistance plastic, which shall be individually colour coded and weather-proof.

4.5 Colour

The padlock case shall be colour coded as follows:

PADLOCK	COLOUR		MARKING / FUNCTION
A	BLUE		OPERATION
B	BLACK		MEDIUM VOLTAGE
C	YELLOW		LOW VOLTAGE
D	GREEN		GENERAL
E	ORANGE		METER READING

Table 1: Padlock colours and marking / function.

4.6 Shackle

- 4.6.1 The shackle for padlock blue operating only shall be 6 MM² made from case hardened boron steel.

4.6.2 The shackle for other padlocks shall be 8 MM² made from case hardened boron steel.

4.6.3 A shackle shall be ± 25mm in diameter from the top body of the padlock.

4.6.4 Shackles shall lock at the toe and the heel, as determined by category in section 4.3. The slots in the shackle shall be so formed as to securely engage the locking bolt(s).

4.6.5 The tension in the bolt springs, when relevant, shall be such as to prevent any movement of the closed shackle that could compromise the security of the lock.

4.7 Keys

4.7.1 The key variations for a particular padlock shall be, without duplication of a particular step height on a single key.

4.7.2 The keys shall be constructed from high quality brass.

4.7.3 Any two steps of a key shall have a minimum difference of ±0,4 mm in step height, to prevent the key from passing when adjacent heights are transposed.

4.7.4 The key shall be clearly labelled A to E, according to the level of access, **A** being the highest access level, as shown in Table 1.

4.7.5 The identification characters shall be at least 2,5 mm high.

4.7.6 The key shall be removable in the unlocked position of the shackle.

4.8 Dimensions

A padlock shall be of the nominal size given in column 1, as required, and the diameter of the shackle shall be as given in column 2 of table2

1	2
Nominal size (L x B x H) (mm)	Minimum shackle diameter (mm)
± 50 x 25 x 40	6.0 (Only for BLUE)
± 50 x 25 x 40	8.0 (For all other padlocks)

Table 2: Typical dimensions of a padlock.

4.9 Padlock mechanisms

4.9.1 The padlock mechanism shall be of the pin tumbler cylinder type, with anti-pick mushrooms pins and security plates / pins.

4.9.2 The number of anti-pick mushroom pins shall not be less than four.

4.9.3 The number of anti-pick plates shall be provided.

4.9.4 The pin springs shall be made of phosphor bronze.

4.9.5 The mechanism shall be pre-lubricated with graphite paste.

4.9.6 The mechanism shall be of a robust construction and shall not be prone to mechanical breakage.

4.10 Mechanical strength

The padlock shall comply with the mechanical tests outlined in SANS 1533. Section 6.2, which states; when a padlock is tested for resistance to tension the shackle shall not

release from the locking bolts and the shackle pivot. City Power reserves the right to request a practical demonstration of the products ability to withstand the test.

5 CYLINDER RIM LOCK

5.1 Requirements

The cylinder lock shall be:

- 5.1.1 manufactured out of solid brass;
- 5.1.2 suitable for master keying and have key-alike facilities;
- 5.1.3 supplied with 5 pin tumblers;
- 5.1.4 supplied with re-tailoring cylinder screws and fixing plate, and
- 5.1.5 The key shall be removable in the unlocked position of the cylinder.

5.2 Dimensions

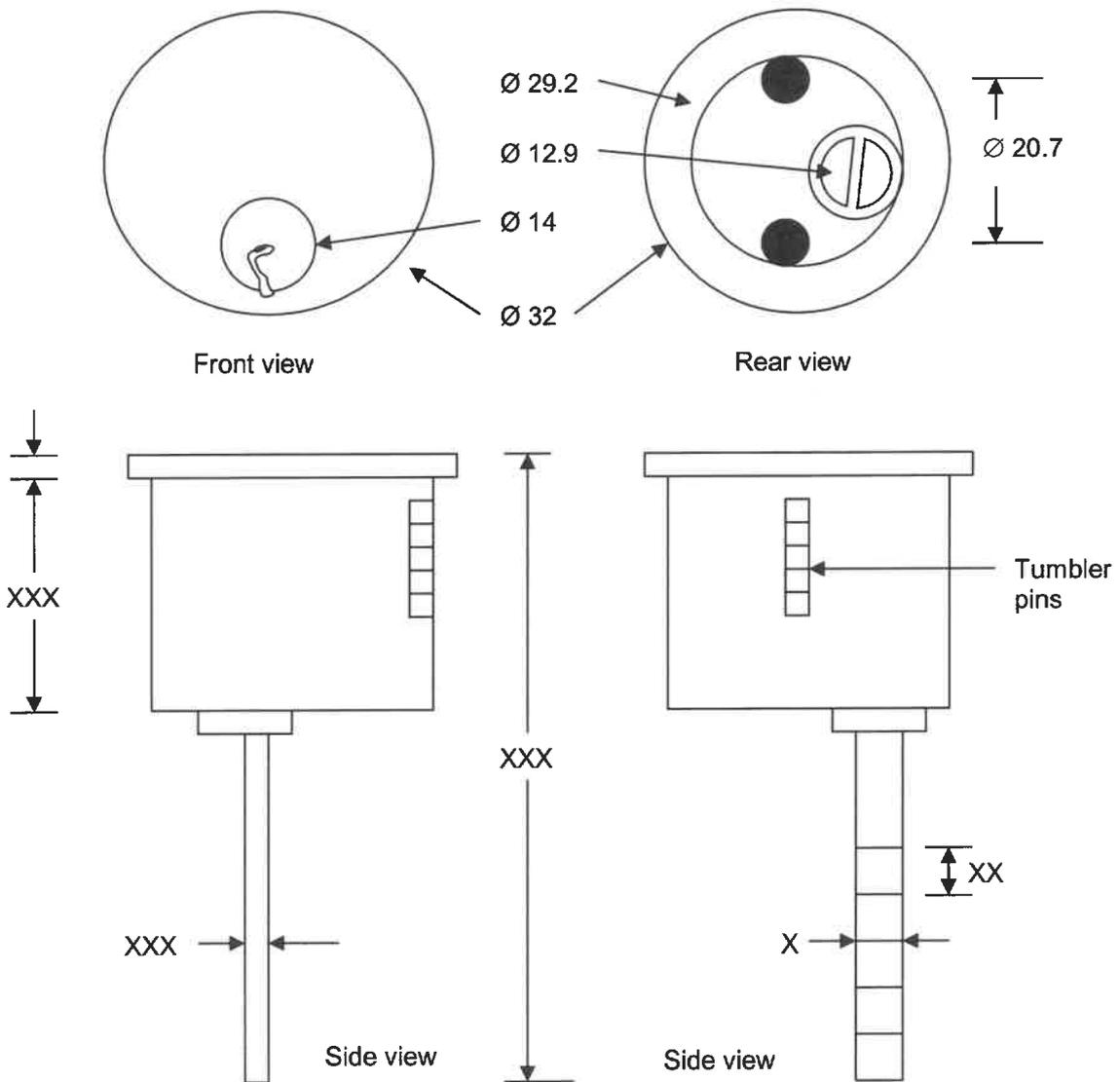


Figure 1: Typical dimensions of a cylinder lock.

6 MATRIX

The below matrix illustrates the access level of the keys in relation to the coloured padlocks and cylinder locks.

PADLOCK	KEYS				
	A	B	C	D	E
BLUE	X	X	X	X	X
BLACK		X	X	X	X
YELLOW			X	X	X
GREEN				X	X
ORANGE					X

Table 3: Level of access

7 TESTS

- 7.1 The padlocks shall be type tested as per SANS 1533.
- 7.2 .Test reports shall be provided.
- 7.3 . Type tests shall be performed by an accredited laboratory.

8 MARKING, PACKING AND DOCUMENTATION

8.1 Marking

Each padlock shall be clearly and indelibly marked with the following:

- 8.1.1 Brand name or trade mark.
- 8.1.2 City Power's name.
- 8.1.3 Each coloured padlock shall be engraved as Operation, MV, LV, General or Meter reading as per **Table 1**.
- 8.1.4 The cylinder lock shall be clearly stamped alphabetically B or C, according to the level of access, A being the highest access level, as shown in **Table 3**.

8.2 Packing

8.2.1 The padlocks or cylinder locks shall be so packed, in acceptable containers, that they are adequately protected from damage during normal transit, and from deterioration due to dust, light and normal atmospheric moisture.

8.2.2 Preferably, the packaging to be colour coded as per the padlocks.

8.3 Documentation

8.3.1 Certification that the padlocks provided are suitable for use shall be provided.

8.3.2 A detailed test reports confirming compliance with SANS 1533 shall be provided.

8.3.3 In addition to the documentation required above, full technical information relating to the performance, construction of the padlocks and cylinder rim lock shall be supplied.

8.4 Samples

City Power reserve the right to request samples prior to purchase, or as part of the tender process.

9 QUALITY MANAGEMENT

A quality management plan shall be set up in order to assure the proper quality management of the padlocks and cylinder rim locks during design, development, production, installation and servicing phases. Guidance on the requirements for a quality management plan may be found in the ISO 9001:2015. The details shall be subject to agreement between City Power and the Supplier.

10 ENVIRONMENTAL MANAGEMENT

An environmental management plan shall be set up in order to assure the proper environmental management of the padlocks and cylinder rim locks throughout its entire life cycle (i.e. during design, development, production, installation, operation and maintenance, decommissioning and disposal phases). Guidance on the requirements for an environmental management system may be found in ISO 14001:2015 standards. The details shall be subject to agreement between City Power and the Supplier. This is to ensure that the asset created conforms to environmental standards and City Power SHERQ Policy

11 HEALTH AND SAFETY

A health and safety plan shall be set up in order to ensure proper management and compliance of the padlocks and cylinder rim locks during installation operation, maintenance, and decommissioning phases. Guidance on the requirements of a health and safety plan may be found in OHSAS 18001:2007 standards. This is to ensure that the asset conforms to standard operating procedures and City Power SHERQ Policy. The details shall be subject to agreement between City Power and the Supplier.

ANNEXURE A - Bibliography

SCSSCAAM8: Eskom specification for master locks and master keys for electrical and related equipment.

CP 62/111: Locks.

ANNEXURE B - Revision information

DATE	REV. NO.	NOTES
March 2003	0	First issue
Aug. 2005	1	Foreword: Updated new list of members Introduction: Added cylinder locks Scope: Added cylinder locks Clause 4: changed title to Padlocks Clause 4.4.1: Changed stainless to boron Clause 4.8.5: Removed silicon Added entire clause 5 Annex C added Items 6 and 7
Jan 2009	2	9.4 Samples City Power reserve the right to request samples prior to purchase, or as part of the tender process. 4.5.1 The keys shall be compatible with existing keys in use by City Power. 4.7.4 The nominal width across the shackle shall be at least 35 mm 5 MECHANICAL STRENGTH 5.1 The padlock shall comply with the mechanical tests outlined in SANS 1533. Section 6.2 - Tension test shall be carried out and City Power reserve the right to request a practical demonstration of the products ability to withstand the test.

5.2 The mechanism shall be of a robust construction and shall not be prone to mechanical breakage.

9.1 c) Each coloured padlock shall be engraved as Operation, MV, LV, General or Meter reading as per Table 1.

June 2014

3

Log updated and numbering edited
Study committee updated
Scope updated
Normative references updated
Definition: SABS edited to SANS
General clause 4.1.5 included
Type clause 4.2 Note added
Category clause 4.3 edited
Case clause 4.4 edited
Shackle clause 4.6 edited
Keys clause 4.7 edited
Keyway changed to keying of locks clause 4.8 and edited
Dimensions clause 4.9 edited and table included
Mechanisms changed to padlock mechanisms clause 4.10
Mechanical strength clause 5 edited
Cylinder lock edited to cylinder rim lock clause 6
Documentation edited clause 8.3
Quality management edited clause 9
Environmental management included clause 10

March 2021

4

Added new study committee
4.6.1 shackle size for Padlock Operating Blue change to 6 MM²
4.8 Minimum shackle diameter Padlock Operating Blue changed to 6 mm

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions 1. Length mm 2. Breadth mm 3. Height mm	±50 ±25 ±40	
13	4.9	Padlock mechanisms 1. Pin tumbler cylinder type, with security plates Yes/No 2. Number of anti-pick mushroom pins min 3. Anti-pick plates Yes/No 4. Pin springs made of phosphor bronze Yes/No 5. Mechanism shall be pre-lubricated Yes/No	Yes 4 Yes Yes Yes	
14	7	Tests Provide type test results according to SANS 1533	Yes/No Yes	
15	8	Marking , packing and documentation As according to clause 8	Yes/No Yes	
16	9	Quality Management Complies to ISO 9001	Yes/No Yes	
17	10	Environmental Management Complies to ISO 14001	Yes/No Yes	

Note: Ticks, Cross [✓, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

ANNEXURE C - Item No. 2 – Padlock MV Black SAP (512)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
1		Manufacturer	XXXX	
2		Location	XXXX	
3	2	Complies to padlock standard	SANS 1533	
4	4.1	General		
5		5. Suitable for master keying and have key-alike facilities	Yes/No	Yes
		6. Spring opening, self-locking shackles	Yes/No	Yes
		7. Key removable in the unlocked position	Yes/No	Yes
		8. Padlock of low cost scrap value.	Yes/No	Yes
6	4.2	Padlock type	CP	
7	4.3	Padlock category	2	
8	4.4	Comply to case requirements	Yes/No	Yes
9	4.5	Comply to colour coding requirements	Yes/No	Yes
10	4.6	Shackle		
		4. Shackle size	mm ²	8
		5. Shackle diameter	mm	± 25
		6. Locking at the toe and the heel	Yes/No	Yes
11	4.7	Keys		
		5. Without duplication of a particular step height on a single key.	Yes/No	Yes
		6. Constructed from high quality brass.	Yes/No	Yes
		7. Step minimum difference in step.	mm	± 0.4
		8. Clearly labelled A to E	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

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Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Item	Sub clause of	Description	Schedule A	Schedule B
------	---------------	-------------	------------	------------

CP_TSSPEC_069				
12	4.8	Dimensions		
		4. Length	mm	±50
		5. Breadth	mm	±25
13	4.9	Padlock mechanisms		
		6. Pin tumbler cylinder type, with security plates	Yes/No	Yes
		7. Number of anti-pick mushroom pins	min	4
		8. Anti-pick plates	Yes/No	Yes
		9. Pin springs made of phosphor bronze	Yes/No	Yes
14	7	Tests		
		Provide type test results according to SANS 1533	Yes/No	Yes
15	8	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
16	9	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
17	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [✓, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Item No. 2 –

Deviation schedule Padlock MV Black SAP (512)

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.		
Item	Sub clause of CP_TSSPEC_069	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ANNEXURE C - Item No. 3 – Pad lock LV Yellow SAP (213)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
1		Manufacturer	XXXX	
2		Location	XXXX	
3	2	Complies to padlock standard	SANS 1533	
4	4.1	General		
5		9. Suitable for master keying and have key-alike facilities	Yes/No	Yes
		10.Spring opening, self-locking shackles	Yes/No	Yes
		11.Key removable in the unlocked position	Yes/No	Yes
		12.Padlock of low cost scrap value.	Yes/No	Yes
6	4.2	Padlock type	CP	
7	4.3	Padlock category	2	
8	4.4	Comply to case requirements	Yes/No	Yes
9	4.5	Comply to colour coding requirements	Yes/No	Yes
10	4.6	Shackle		
		7. Shackle size	mm ²	8
		8. Shackle diameter	mm	± 25
		9. Locking at the toe and the heel	Yes/No	Yes
11	4.7	Keys		
		9.Without duplication of a particular step height on a single key.	Yes/No	Yes
		10.Constructed from high quality brass.	Yes/No	Yes
		11.Step minimum difference in step.	mm	± 0.4
		12.Clearly labelled A to E	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions		
		7. Length	mm	±50
		8. Breadth	mm	±25
		9. Height	mm	±40
13	4.9	Padlock mechanisms		
		11.Pin tumbler cylinder type, with security plates	Yes/No	Yes
		12.Number of anti-pick mushroom pins	min	4
		13.Anti-pick plates	Yes/No	Yes
		14.Pin springs made of phosphor bronze	Yes/No	Yes
14	7	Tests		
		Provide type test results according to SANS 1533	Yes/No	Yes
15	8	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
16	9	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
17	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
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Signature

Full name of company: _____

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions		
		10.Length	mm	±50
		11.Breadth	mm	±25
		12.Height	mm	±40
13	4.9	Padlock mechanisms		
		16.Pin tumbler cylinder type, with security plates	Yes/No	Yes
		17.Number of anti-pick mushroom pins	min	4
		18.Anti-pick plates	Yes/No	Yes
		19.Pin springs made of phosphor bronze	Yes/No	Yes
		20.Mechanism shall be pre-lubricated	Yes/No	Yes
14	7	Tests		
		Provide type test results according to SANS 1533	Yes/No	Yes
15	8	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
16	9	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
17	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Item No. 4 – Pad lock General Green SAP (514)

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_069	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions		
		13.Length	mm	±50
		14.Breadth	mm	±25
13	4.9	15.Height	mm	±40
		Padlock mechanisms		
		21.Pin tumbler cylinder type, with security plates	Yes/No	Yes
		22.Number of anti-pick mushroom pins	min	4
		23.Anti-pick plates	Yes/No	Yes
14	7	24.Pin springs made of phosphor bronze	Yes/No	Yes
		25.Mechanism shall be pre-lubricated	Yes/No	Yes
15	8	Tests		
		Provide type test results according to SANS 1533	Yes/No	Yes
16	9	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
17	10	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
17	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions		
		16.Length	mm	±50
		17.Breadth	mm	±25
		18.Height	mm	±40
13	4.9	Padlock mechanisms		
		26.Pin tumbler cylinder type, with security plates	Yes/No	Yes
		27.Number of anti-pick mushroom pins	min	4
		28.Anti-pick plates	Yes/No	Yes
		29.Pin springs made of phosphor bronze	Yes/No	Yes
		30.Mechanism shall be pre-lubricated	Yes/No	Yes
14	7	Tests		
		Provide type test results according to SANS 1533	Yes/No	Yes
15	8	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
16	9	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
17	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

Item No. 6 – Padlock Keys SAP (2291)

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_069	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

**SPECIFICATION FOR MASTER PADLOCKS,
CYLINDER LOCKS AND KEYS**

REFERENCE
CP_TSSPEC_069

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Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions 19.Length mm 20.Breadth mm 21.Height mm	±50 ±25 ±40	
13	4.9	Padlock mechanisms 31.Pin tumbler cylinder type, with security plates Yes/No 32.Number of anti-pick mushroom pins min 33.Anti-pick plates Yes/No 34.Pin springs made of phosphor bronze Yes/No 35.Mechanism shall be pre-lubricated Yes/No	Yes 4 Yes Yes Yes	
14	7	Tests Provide type test results according to SANS 1533	Yes/No Yes	
15	8	Marking , packing and documentation As according to clause 8	Yes/No Yes	
16	9	Quality Management Complies to ISO 9001	Yes/No Yes	
17	10	Environmental Management Complies to ISO 14001	Yes/No Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ANNEXURE C - Item No. 8 – Padlock Keys Yellow SAP (2293)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
1		Manufacturer	XXXX	
2		Location	XXXX	
3	2	Complies to padlock standard	SANS 1533	
4	4.1	General		
5		29.Suitable for master keying and have key-alike facilities	Yes/No Yes	
		30.Spring opening, self-locking shackles	Yes/No Yes	
		31.Key removable in the unlocked position	Yes/No Yes	
		32.Padlock of low cost scrap value.	Yes/No Yes	
6	4.2	Padlock type	CP	
7	4.3	Padlock category	2	
8	4.4	Comply to case requirements	Yes/No Yes	
9	4.5	Comply to colour coding requirements	Yes/No Yes	
10	4.6	Shackle		
		22.Shackle size	mm ² 8	
		23.Shackle diameter	mm ± 25	
		24.Locking at the toe and the heel	Yes/No Yes	
11	4.7	Keys		
		29.Without duplication of a particular step height on a single key.	Yes/No Yes	
		30.Constructed from high quality brass.	Yes/No Yes	
		31.Step minimum difference in step.	mm ± 0.4	
		32.Clearly labelled A to E	Yes/No Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item No. 8 – Padlock Keys Yellow SAP (2293)

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_069	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions		
		25.Length mm	±50	
		26.Breadth mm	±25	
		27.Height mm	±40	
13	4.9	Padlock mechanisms		
		41.Pin tumbler cylinder type, with security plates	Yes/No	Yes
		42.Number of anti-pick mushroom pins	min	4
		43.Anti-pick plates	Yes/No	Yes
		44.Pin springs made of phosphor bronze	Yes/No	Yes
		45.Mechanism shall be pre-lubricated	Yes/No	Yes
14	7	Tests		
		Provide type test results according to SANS 1533	Yes/No	Yes
15	8	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
16	9	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
17	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [✓, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters
Signature

Full name of company: _____

ANNEXURE C - Item No. 10 – Padlock Keys SAP (2295)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
1		Manufacturer	XXXX	
2		Location	XXXX	
3	2	Complies to padlock standard	SANS 1533	
4	4.1	General		
5		37.Suitable for master keying and have key-alike facilities	Yes/No	Yes
		38.Spring opening, self-locking shackles	Yes/No	Yes
		39.Key removable in the unlocked position	Yes/No	Yes
		40.Padlock of low cost scrap value.	Yes/No	Yes
6	4.2	Padlock type	CP	
7	4.3	Padlock category	2	
8	4.4	Comply to case requirements	Yes/No	Yes
9	4.5	Comply to colour coding requirements	Yes/No	Yes
10	4.6	Shackle		
		28.Shackle size	mm ²	8
		29.Shackle diameter	mm	± 25
		30.Locking at the toe and the heel	Yes/No	Yes
11	4.7	Keys		
		37.Without duplication of a particular step height on a single key.	Yes/No	Yes
		38.Constructed from high quality brass.	Yes/No	Yes
		39.Step minimum difference in step.	mm	± 0.4
		40.Clearly labelled A to E	Yes/No	Yes

Note: Ticks, Cross [✓, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
12	4.8	Dimensions		
		28.Length	mm	±50
		29.Breadth	mm	±25
		30.Height	mm	±40
13	4.9	Padlock mechanisms		
		46.Pin tumbler cylinder type, with security plates	Yes/No	Yes
		47.Number of anti-pick mushroom pins	min	4
		48.Anti-pick plates	Yes/No	Yes
		49.Pin springs made of phosphor bronze	Yes/No	Yes
		50.Mechanism shall be pre-lubricated	Yes/No	Yes
14	7	Tests		
		Provide type test results according to SANS 1533	Yes/No	Yes
15	8	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
16	9	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
17	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item No. 10 – Padlock Keys Orange SAP (2295)

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_069	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ANNEXURE C - Item No. 11 Cylinder lock MV SAP (1561)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
1		Manufacturer	XXXX	
2		Location	XXXX	
3		Complies to padlock standard	XXXX	
4	5.1	Requirements		
		1. Material	Brass	
		2. Master key	Required	
		3. Tumblers	5	
		4. Re-tailoring cylinder screws and fixing plate	Required	
		5. Key removable Yes/ No	Yes	
		6. Individually keyed	Required	
5	5.2	Dimensions		
		1 Outer diameter mm	±32	
		2 Inner diameter mm	±29	
		3 Head length mm	XXXX	
		4 Total length mm	XXXX	
6		Mechanisms		
		1. Number of anti-pick mushroom pins	Required	
		2. Mechanism shall be pre-lubricated	Required	
7		Tests		
		Provide type test results	Required	
8	8	Marking , packing and documentation		
		As according to clause 8 Yes/No	Yes	
9	9	Quality Management		
		Complies to ISO 9001 Yes/No	Yes	
10	10	Environmental Management		
		Complies to ISO 14001 Yes/No	Yes	

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item No. 11 – Cylinder lock MV SAP (1561)

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_069	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ANNEXURE C - Item No. 12 – Cylinder lock LV SAP (1562)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub clause of CP_TSSPEC_069	Description	Schedule A	Schedule B
1		Manufacturer	XXXX	
2		Location	XXXX	
3		Complies to padlock standard	XXXX	
4	5.1	Requirements		
		7. Material	Brass	
		8. Master key	Required	
		9. Tumblers	5	
		10. Re-tailoring cylinder screws and fixing plate	Required	
		11. Key removable	Yes/ No	Yes
		12. Individually keyed		Required
5	5.2	Dimensions		
		5 Outer diameter mm	±32	
		6 Inner diameter mm	±29	
		7 Head length mm	XXXX	
		8 Total length mm	XXXX	
6		Mechanisms		
		3. Number of anti-pick mushroom pins		Required
		4. Mechanism shall be pre-lubricated		Required
7		Tests		
		Provide type test results		Required
8	8	Marking , packing and documentation		
		As according to clause 8	Yes/No	Yes
9	9	Quality Management		
		Complies to ISO 9001	Yes/No	Yes
10	10	Environmental Management		
		Complies to ISO 14001	Yes/No	Yes

Note: Ticks, Cross [√, X], Astrick [*], Word [Noted] or TBA ["To Be Advice"] will not be accepted.

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item No. 12 – Cylinder lock LV SAP (1562)

Deviation schedule

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub clause of CP_TSSPEC_069	Proposed deviation

Tender Number: _____

Tenderer's Authorised Signatory: _____
Name in block letters Signature

Full name of company: _____

ANNEXURE D – Stock Items

Material Group: GEN-GOOD

Item	SAP No.	SAP Short Description	SAP Long Description
1	511	PADLOCK OPER BLUE	PADLOCK, OPERATING, MASTER, LAMINATED, WITH A BLUE PVC OUTER CASING, HAVING A 6 MM DIAMETER SHACKLE. ITEM SPECIFICATION NO.CP_TSSPEC_069
2	512	PADLOCK MV BLACK	PADLOCK, MEDIUM VOLTAGE, MASTER, LAMINATED, WITH A BLACK PVC OUTER CASING, HAVING AN 8 MM DIAMETER SHACKLE. ITEM SPECIFICATION NO.CP_TSSPEC_069
3	513	PADLOCK LV YELLOW	PADLOCK, LOW VOLTAGE, MASTER, LAMINATED, WITH A YELLOW PVC OUTER CASING, HAVING AN 8 MM DIAMETER SHACKLE. ITEM SPECIFICATION NO.CP_TSSPEC_069
4	514	PADLOCK GENERAL GREEN	PADLOCK, GENERAL, MASTER, LAMINATED, WITH A GREEN PVC OUTER CASING, HAVING A 8 MM DIAMETER SHACKLE. ITEM SPECIFICATION NO.CP_TSSPEC_069
5	515	PADLOCK MR ORANGE	PADLOCK, METER READING, MASTER, LAMINATED, WITH AN ORANGE PVC OUTER CASING, HAVING A 8 MM DIAMETER SHACKLE. ITEM SPECIFICATION NO.CP_TSSPEC_069
6	2291	PADLOCK KEYS BLUE	PADLOCK KEYS BLUE FROM HIGH QUALITY BRASS FOR A TO E LOCKS. ITEM SPECIFICATION NO.CP_TSSPEC_069
7	2292	PADLOCK KEYS BLACK	PADLOCK KEYS BLACK FROM HIGH QUALITY BRASS FOR B TO E LOCKS. ITEM SPECIFICATION NO.CP_TSSPEC_069
8	2293	PADLOCK KEYS YELLOW	PADLOCK KEYS YELLOW FROM HIGH QUALITY BRASS FOR C TO E LOCKS. ITEM SPECIFICATION NO.CP_TSSPEC_069
9	2294	PADLOCK KEYS GREEN	PADLOCK KEYS GREEN FROM HIGH QUALITY BRASS FOR D TO E LOCKS. ITEM SPECIFICATION NO.CP_TSSPEC_069
10	2295	PADLOCK KEYS ORANGE	PADLOCK KEYS ORANGE FROM HIGH QUALITY BRASS FOR E TO E LOCKS. ITEM SPECIFICATION NO.CP_TSSPEC_069
11	1561	CYLINDER LOCK MV	CYLINDER LOCK, MEDIUM VOLTAGE, MASTER, BRASS, COMPLETE WITH FIXING PLATE AND SCREWS. ITEM SPECIFICATION NO.CP_TSSPEC_069
12	1562	CYLINDER LOCK LV	CYLINDER LOCK, LOW VOLTAGE, MASTER, BRASS, COMPLETE WITH FIXING PLATE AND SCREWS. ITEM SPECIFICATION NO.CP_TSSPEC_069

