



TITLE	SPECIFICATION FOR METAL CABLE GLANDS	REFERENCE	CP_TSSPEC_030	REV	3
		DATE:		JANUARY 2011	
		PAGE:	1	OF	49

TABLE OF CONTENTS

	Page
FOREWORD	3
INTRODUCTION	4
1 SCOPE	4
2 NORMATIVE REFERENCES	4
3 DEFINITIONS AND ABBREVIATIONS	4
4 REQUIREMENTS	4
4.1 General	4
3.2 Type	4
3.3 Earthing	5
3.4 Shrouds	5
3.5 Size	5
4 PROTECTION	5
5. TESTS	6
5.1 Type test	6
5.2 Routine test	6
6 MARKING, LABELING AND PACKAGING	6
6.1 Marking	6
6.2 Labeling	6
6.3 Packaging	6
7 DOCUMENTATION	6
8 Quality management	6
ANNEX A - Bibliography	8
ANNEX B - Revision information	9
ANNEX C – Item 1 - GLAND LV NO 0 METAL – SAP No. 5567	10

**SPECIFICATION FOR METAL CABLE
GLANDS**

REFERENCE

REV

CP_TSSPEC_030

3

PAGE

2

OF

49

ANNEX C – Item 2 - GLAND LV NO 1 METAL – SAP No. 5568.....	12
ANNEX C – Item 3 - GLAND LV NO 2 METAL – SAP No. 5602.....	14
ANNEX C – Item 4 - GLAND LV NO 3 METAL – SAP No. 5757.....	16
ANNEX C – Item 5 - GLAND LV NO 4 METAL – SAP No. 5901.....	18
ANNEX C – Item 6 - GLAND LV NO 5 METAL – SAP No. 6303.....	20
ANNEX C – Item 7 - GLAND LV NO 6 METAL – SAP No. 5758.....	22
ANNEX C – Item 8 - SHROUD GLAND NO 0 LONG – SAP No. 6018.....	24
ANNEX C – Item 9 - SHROUD GLAND NO 1 LONG – SAP No. 191.....	26
ANNEX C – Item 10 - SHROUD GLAND NO 2 LONG – SAP No. 6019.....	28
ANNEX C – Item 11 - SHROUD GLAND NO 3 LONG – SAP No. 6020.....	30
ANNEX C – Item 12 - SHROUD GLAND NO 4 LONG – SAP No. 5902.....	32
ANNEX C – Item 13 - SHROUD GLAND NO 5 LONG – SAP No. 6304.....	34
ANNEX C – Item 14 - SHROUD GLAND NO 6 LONG – SAP No. 5904.....	36
ANNEX C – Item 15 - EARTHING TAG GLAND NO 2 – SAP No. 5604	38
ANNEX C – Item 16 - EARTHING TAG GLAND NO 3 – SAP No. 403	40
ANNEX C – Item 17 - EARTHING TAG GLAND NO 4 – SAP No. 404	42
ANNEX C – Item 18 - EARTHING TAG GLAND NO 5 – SAP No. 405	44
ANNEX C – Item 19 - EARTHING TAG GLAND NO 6 – SAP No. 891	46
ANNEX D – Stock Items	48

FOREWORD

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

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

INTRODUCTION

Currently, different terminating and securing methods exist when terminating SWA cables on the low voltage network. By standardizing the use of metal cable glands as the method of securing and earthing the SWA cables, a better low voltage earthing system is ensured.

1 SCOPE

This specification covers City Power's requirements for metal cable glands for use on low voltage distribution network, for use in service distribution boxes and miniature substations where LV cables are to be terminated.

2 NORMATIVE REFERENCES

The following documents contain provisions that, through reference in the text, constitute requirements of this specification. 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 1213 : 2002, *Mechanical cable glands*.

SANS 1222 : 1985, *Classification of degrees of protection provided by enclosures*.

3 DEFINITIONS AND ABBREVIATIONS

The definitions and abbreviations from SANS 1213 and SANS 1222 shall comply to this specification.

4 REQUIREMENTS

4.1 General

The cable glands shall comply to SANS 1213 and bear the SANS mark of approval.

3.2 Type

3.2.1 The cable gland shall be nickel plated brass.

3.2.2 The cable gland shall be fully adjustable with loose cone bush and nipple.

3.2.3 The cable gland shall be supplied with nickel plated steel lock nuts.

3.2.4 The cable gland shall have a spigot on the gland body which enables each gland size to centre in two sizes of knock-out holes.

3.2.5 The gland shall incorporate a differential thread action to ensure effective armour clamping.

3.3 Earthing

- 3.3.1 An earthing tag shall be supplied separately for every size range cable gland.
- 3.3.2 The earthing tags shall be constructed from 1,5 mm nickel plated brass.
- 3.3.3 The earthing tags shall be able to fit all the corresponding cable glands specified.
- 3.3.4 A 6,3 mm for glands up to gland No. 4 and 8,3 mm for glands No. 5 and No. 6, diameter hole shall be provided on the protruding portion of the earthing side of the tag.
- 3.3.5 The earthing tag shall specify the hole diameter for the gland, as well as, brand name or manufacturer's trade mark.

3.4 Shrouds

- 3.4.1 All cable glands shall be supplied with shrouds.
- 3.4.2 The shrouds shall be of the long type.
- 3.4.3 The shrouds shall be made from black ultra violet and chemical resistant rubber.
- 3.4.4 The gland size, type and brand name or manufacturer's trade mark shall be permanently marked on the shroud.

3.5 Size

The cable glands shall be capable of securing the following range of cables manufactured to SANS 1507 with SWA. as shown in table 1.

Cable size mm ²	No.of cores	Gland size as per SANS 1213
2,5	2	No 0
2,5	4	No 1
4	2	No 1
4	4	No 1
16	2	No 2
16	4	No 3
25	4	No 3
35	4	No 4
70	4	No 4
120	4	No 5
185	4	No 6

Table 1: Cable range size

4 PROTECTION

The cable gland shall have an IP 54 rating, as per SANS 1222.

5. TESTS

5.1 Type test

5.1.1 Cable glands shall be type tested as per SANS 1213.

5.1.2 Test reports shall be provided.

5.1.3 Type tests shall be performed by an accredited laboratory.

5.2 Routine test

Visually examine and measure each cable gland in the sample for compliance with all the requirements of this specification.

6 MARKING, LABELING AND PACKAGING

6.1 Marking

6.1.1 All cable glands shall have the gland size number on the gland.

6.1.2 The manufacturer's trademark shall be on all glands.

6.1.3 All cable glands shall bear the SANS mark of approval.

6.2 Labeling

6.2.1 The labeling shall have the sizes of the cable gland.

6.2.2 The label shall contain the manufacturers name, trademark and part number.

6.3 Packaging

6.3.1 All cable glands shall be packed in boxes.

6.3.2 An installation instruction shall be supplied with the cable glands.

6.3.3 The earthing tags and shrouds shall be supplied separately.

7 DOCUMENTATION

7.1 Documentation shall be submitted in a technical catalogue format.

7.2 The catalogue shall specify the gland sizes, dimensions, reference numbers, available accessories and the size range of the cables the glands are compatible with.

8 Quality management

8.1 A quality management system shall be set up in order to assure the quality of the metal

**SPECIFICATION FOR METAL CABLE
GLANDS**

REFERENCE

REV

CP_TSSPEC_030

3

PAGE

7

OF

49

- cable glands during design, development, production, installation and maintenance. Guidance on the requirements for a quality management system may be found in the following standards: SANS (or SANS ISO) 9000, 9001 and 9004. The details shall be subject to agreement between the purchaser and supplier.
- 8.2 Foreign and third party manufacturers shall, in addition, hold valid certification of their quality management system. Such certification shall be from a national quality systems certification body (Registrar), duly accredited by a QMS accreditation body, which is signatory to a mutual recognition agreement with South Africa and acceptable to City Power.
- 8.3 Additional quality requirements may apply when City Power enters into a term contract. Specific requirements will be specified therein.

ANNEX A - Bibliography

None

ANNEX B - Revision information

DATE	REV. NO.	NOTES
Nov. 2002	0	First issue
Feb. 2004	1	3.3.4 - for glands up to gland No. 4 and 8,3 mm for glands No. 5 and No. 6 3.5 - Add 185mm ² to table 1 Annexure C – Add items 7, 14, 19 Annexure D – Add items 7, 14, 19
Jan 2006	2	Updated page 1 Foreword: updated committee members 6.1.3 Bear the SANS mark of approval.
Jan 2011	3	Format changes Updated committee members 3 DEFINITIONS AND ABBREVIATIONS 6.1.3 All cable glands shall bear the SANS mark of approval.

ANNEX C – Item 1 - GLAND LV NO 0 METAL – SAP No. 5567

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.1	Bear SANS mark of approval	Required	xxxxx
2	3.2.1	Cable gland to be nickel plated brass	Required	xxxxx
3	3.2.5	Does the cable gland have a differential thread action? Yes/No	Yes	
4	4	Cable gland to be IP 54 rated	Required	xxxxx
5	5	Type test report	Required	xxxxx
6	6.1	Does the marking comply to this specification? Yes/No	Yes	
7	6.2	Does the labelling comply to this specification? Yes/No	Yes	
8	6.3	Does the packing comply to this specification? Yes/No	Yes	
9	6.3.2	Installation instructions	Required	xxxxx
10	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 1 - GLAND LV NO 0 METAL – SAP No. 5567

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 2 - GLAND LV NO 1 METAL – SAP No. 5568

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.1	Bear SANS mark of approval	Required	xxxxx
2	3.2.1	Cable gland to be nickel plated brass	Required	xxxxx
3	3.2.5	Does the cable gland have a differential thread action? Yes/No	Yes	
4	4	Cable gland to be IP 54 rated	Required	xxxxx
5	5	Type test report	Required	xxxxx
6	6.1	Does the marking comply with this specification? Yes/No	Yes	
7	6.2	Does the labelling comply with this specification? Yes/No	Yes	
8	6.3	Does the packing comply with this specification? Yes/No	Yes	
9	6.3.2	Installation instructions	Required	xxxxx
10	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 2 - GLAND LV NO 1 METAL – SAP No. 5568

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 3 - GLAND LV NO 2 METAL – SAP No. 5602

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.1	Bear SANS mark of approval	Required	xxxxx
2	3.2.1	Cable gland to be nickel plated brass	Required	xxxxx
3	3.2.5	Does the cable gland have a differential thread action? Yes/No	Yes	
4	4	Cable gland to be IP 54 rated	Required	xxxxx
5	5	Type test report	Required	xxxxx
6	6.1	Does the marking comply to this specification? Yes/No	Yes	
7	6.2	Does the labelling comply to this specification? Yes/No	Yes	
8	6.3	Does the packing comply to this specification? Yes/No	Yes	
9	6.3.2	Installation instructions	Required	xxxxx
10	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 3 - GLAND LV NO 2 METAL – SAP No. 5602

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 4 - GLAND LV NO 3 METAL – SAP No. 5757

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.1	Bear SANS mark of approval	Required	xxxxx
2	3.2.1	Cable gland to be nickel plated brass	Required	xxxxx
3	3.2.5	Does the cable gland have a differential thread action? Yes/No	Yes	
4	4	Cable gland to be IP 54 rated	Required	xxxxx
5	5	Type test report	Required	xxxxx
6	6.1	Does the marking comply to this specification? Yes/No	Yes	
7	6.2	Does the labelling comply to this specification? Yes/No	Yes	
8	6.3	Does the packing comply to this specification? Yes/No	Yes	
9	6.3.2	Installation instructions	Required	xxxxx
10	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 4 - GLAND LV NO 3 METAL – SAP No. 5757

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 5 - GLAND LV NO 4 METAL – SAP No. 5901

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.1	Bear SANS mark of approval	Required	xxxxx
2	3.2.1	Cable gland to be nickel plated brass	Required	xxxxx
3	3.2.5	Does the cable gland have a differential thread action? Yes/No	Yes	
4	4	Cable gland to be IP 54 rated	Required	xxxxx
5	5	Type test report	Required	xxxxx
6	6.1	Does the marking comply to this specification? Yes/No	Yes	
7	6.2	Does the labelling comply to this specification? Yes/No	Yes	
8	6.3	Does the packing comply to this specification? Yes/No	Yes	
9	6.3.2	Installation instructions	Required	xxxxx
10	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 6 - GLAND LV NO 5 METAL – SAP No. 6303

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.1	Bear SANS mark of approval	Required	xxxxx
2	3.2.1	Cable gland to be nickel plated brass	Required	xxxxx
3	3.2.5	Does the cable gland have a differential thread action? Yes/No	Yes	
4	4	Cable gland to be IP 54 rated	Required	xxxxx
5	5	Type test report	Required	xxxxx
6	6.1	Does the marking comply to this specification? Yes/No	Yes	
7	6.2	Does the labelling comply to this specification? Yes/No	Yes	
8	6.3	Does the packing comply to this specification? Yes/No	Yes	
9	6.3.2	Installation instructions	Required	xxxxx
10	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 6 - GLAND LV NO 5 METAL – SAP No. 6303

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 7 - GLAND LV NO 6 METAL – SAP No. 5758

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.1	Bear SANS mark of approval	Required	xxxxx
2	3.2.1	Cable gland to be nickel plated brass	Required	xxxxx
3	3.2.5	Does the cable gland have a differential thread action? Yes/No	Yes	
4	4	Cable gland to be IP 54 rated	Required	xxxxx
5	5	Type test report	Required	xxxxx
6	6.1	Does the marking comply to this specification? Yes/No	Yes	
7	6.2	Does the labelling comply to this specification? Yes/No	Yes	
8	6.3	Does the packing comply to this specification? Yes/No	Yes	
9	6.3.2	Installation instructions	Required	xxxxx
10	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 7 - GLAND LV NO 6 METAL – SAP No. 5758

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 8 - SHROUD GLAND NO 0 LONG – SAP No. 6018

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.4.1	Type of shrouds Long/short	long	
2	3.4.2	Is the shroud ultraviolet stable? Yes/No	Yes	
3	3.4.2	Is the shroud chemical resistant? Yes/No	Yes	
4	3.4.2	Material of shroud	Rubber	
5	3.4.3	Do the markings on the shroud comply? Yes/No	Yes	
6	5	Type test report	Required	xxxxx
7	6.1	Does the marking comply with this specification? Yes/No	Yes	
8	6.2	Does the labelling comply with this specification? Yes/No	Yes	
9	6.3	Does the packing comply with this specification? Yes/No	Yes	
10	6.3.2	Installation instructions	Required	xxxxx
11	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item 8 - SHROUD GLAND NO 0 LONG – SAP No. 6018

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 9 - SHROUD GLAND NO 1 LONG – SAP No. 191

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.4.1	Type of shrouds Long/short	long	
2	3.4.2	Is the shroud ultraviolet stable? Yes/No	Yes	
3	3.4.2	Is the shroud chemical resistant? Yes/No	Yes	
4	3.4.2	Material of shroud	Rubber	
5	3.4.3	Do the markings on the shroud comply? Yes/No	Yes	
6	5	Type test report	Required	xxxxx
7	6.1	Does the marking comply with this specification? Yes/No	Yes	
8	6.2	Does the labelling comply with this specification? Yes/No	Yes	
9	6.3	Does the packing comply with this specification? Yes/No	Yes	
10	6.3.2	Installation instructions	Required	xxxxx
11	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 10 - SHROUD GLAND NO 2 LONG – SAP No. 6019

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.4.1	Type of shrouds Long/short	long	
2	3.4.2	Is the shroud ultraviolet stable? Yes/No	Yes	
3	3.4.2	Is the shroud chemical resistant? Yes/No	Yes	
4	3.4.2	Material of shroud	Rubber	
5	3.4.3	Do the markings on the shroud comply? Yes/No	Yes	
6	5	Type test report	Required	xxxxx
7	6.1	Does the marking comply with this specification? Yes/No	Yes	
8	6.2	Does the labelling comply with this specification? Yes/No	Yes	
9	6.3	Does the packing comply with this specification? Yes/No	Yes	
10	6.3.2	Installation instructions	Required	xxxxx
11	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 10 - SHROUD GLAND NO 2 LONG – SAP No. 6019

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 11 - SHROUD GLAND NO 3 LONG – SAP No. 6020

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.4.1	Type of shrouds Long/short	long	
2	3.4.2	Is the shroud ultraviolet stable? Yes/No	Yes	
3	3.4.2	Is the shroud chemical resistant? Yes/No	Yes	
4	3.4.2	Material of shroud	Rubber	
5	3.4.3	Do the markings on the shroud comply? Yes/No	Yes	
6	5	Type test report	Required	xxxxx
7	6.1	Does the marking comply with this specification? Yes/No	Yes	
8	6.2	Does the labelling comply with this specification? Yes/No	Yes	
9	6.3	Does the packing comply with this specification? Yes/No	Yes	
10	6.3.2	Installation instructions	Required	xxxxx
11	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 11 - SHROUD GLAND NO 3 LONG – SAP No. 6020

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 12 - SHROUD GLAND NO 4 LONG – SAP No. 5902

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.4.1	Type of shrouds Long/short	long	
2	3.4.2	Is the shroud ultraviolet stable? Yes/No	Yes	
3	3.4.2	Is the shroud chemical resistant? Yes/No	Yes	
4	3.4.2	Material of shroud	Rubber	
5	3.4.3	Do the markings on the shroud comply? Yes/No	Yes	
6	5	Type test report	Required	xxxxx
7	6.1	Does the marking comply with this specification? Yes/No	Yes	
8	6.2	Does the labelling comply with this specification? Yes/No	Yes	
9	6.3	Does the packing comply with this specification? Yes/No	Yes	
10	6.3.2	Installation instructions	Required	xxxxx
11	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 12 - SHROUD GLAND NO 4 LONG – SAP No. 5902

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 13 - SHROUD GLAND NO 5 LONG – SAP No. 6304

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.4.1	Type of shrouds Long/short	long	
2	3.4.2	Is the shroud ultraviolet stable? Yes/No	Yes	
3	3.4.2	Is the shroud chemical resistant? Yes/No	Yes	
4	3.4.2	Material of shroud	Rubber	
5	3.4.3	Do the markings on the shroud comply? Yes/No	Yes	
6	5	Type test report	Required	xxxxx
7	6.1	Does the marking comply with this specification? Yes/No	Yes	
8	6.2	Does the labelling comply with this specification? Yes/No	Yes	
9	6.3	Does the packing comply with this specification? Yes/No	Yes	
10	6.3.2	Installation instructions	Required	xxxxx
11	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 13 - SHROUD GLAND NO 5 LONG – SAP No. 6304

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 14 - SHROUD GLAND NO 6 LONG – SAP No. 5904

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description	Schedule A	Schedule B
1	3.4.1	Type of shrouds Long/short	long	
2	3.4.2	Is the shroud ultraviolet stable? Yes/No	Yes	
3	3.4.2	Is the shroud chemical resistant? Yes/No	Yes	
4	3.4.2	Material of shroud	Rubber	
5	3.4.3	Do the markings on the shroud comply? Yes/No	Yes	
6	5	Type test report	Required	xxxxx
7	6.1	Does the marking comply with this specification? Yes/No	Yes	
8	6.2	Does the labelling comply with this specification? Yes/No	Yes	
9	6.3	Does the packing comply with this specification? Yes/No	Yes	
10	6.3.2	Installation instructions	Required	xxxxx
11	7	Technical catalogue provided	Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 14 - SHROUD GLAND NO 6 LONG – SAP No. 5904

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 15 - EARTHING TAG GLAND NO 2 – SAP No. 5604

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description		Schedule A	Schedule B
1	3.3.2	Earthing tag to be nickel plated brass	Yes/No	Required	xxxxx
2	3.3.2	Thickness of the earthing tag	mm	1,5	xxxxx
3	3.3.4	Size of the fixing hole	mm	6,3	
4	3.3.5	Is the earthing tag marked with the hole size for the gland?	Yes/No	Yes	
5	3.3.5	Brand name or trade mark marked on the earthing tag?	Yes/No	Yes	xxxxx
6	5	Type test report		Required	xxxxx
7	6.1	Does the marking comply with this specification?	Yes/No	Yes	
8	6.2	Does the labelling comply with this specification?	Yes/No	Yes	
9	6.3	Does the packing comply with this specification?	Yes/No	Yes	
10	6.3.2	Installation instructions		Required	xxxxx
11	7	Technical catalogue provided		Required	xxxxx

Tender Number: _____

Tenderer's Authorised Signatory: _____

Name in block letters

Signature

Full name of company: _____

Item 15 - EARTHING TAG GLAND NO 2 – SAP No. 5604

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 16 - EARTHING TAG GLAND NO 3 – SAP No. 403

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description		Schedule A	Schedule B
1	3.3.2	Earthing tag to be nickel plated brass	Yes/No	Required	xxxxx
2	3.3.2	Thickness of the earthing tag	mm	1,5	xxxxx
3	3.3.4	Size of the fixing hole	mm	6,3	
4	3.3.5	Is the earthing tag marked with the hole size for the gland?	Yes/No	Yes	
5	3.3.5	Brand name or trade mark marked on the earthing tag?	Yes/No	Yes	xxxxx
6	5	Type test report		Required	xxxxx
7	6.1	Does the marking comply with this specification?	Yes/No	Yes	
8	6.2	Does the labelling comply with this specification?	Yes/No	Yes	
9	6.3	Does the packing comply with this specification?	Yes/No	Yes	
10	6.3.2	Installation instructions		Required	xxxxx
11	7	Technical catalogue provided		Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 16 - EARTHING TAG GLAND NO 3 – SAP No. 403

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 17 - EARTHING TAG GLAND NO 4 – SAP No. 404

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description		Schedule A	Schedule B
1	3.3.2	Earthing tag to be nickel plated brass	Yes/No	Required	xxxxx
2	3.3.2	Thickness of the earthing tag	mm	1,5	xxxxx
3	3.3.4	Size of the fixing hole	mm	6,3	
4	3.3.5	Is the earthing tag marked with the hole size for the gland?	Yes/No	Yes	
5	3.3.5	Brand name or trade mark marked on the earthing tag?	Yes/No	Yes	xxxxx
6	5	Type test report		Required	xxxxx
7	6.1	Does the marking comply with this specification?	Yes/No	Yes	
8	6.2	Does the labelling comply with this specification?	Yes/No	Yes	
9	6.3	Does the packing comply with this specification?	Yes/No	Yes	
10	6.3.2	Installation instructions		Required	xxxxx
11	7	Technical catalogue provided		Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 17 - EARTHING TAG GLAND NO 4 – SAP No. 404

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 18 - EARTHING TAG GLAND NO 5 – SAP No. 405

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description		Schedule A	Schedule B
1	3.3.2	Earthing tag to be nickel plated brass	Yes/No	Required	xxxxx
2	3.3.2	Thickness of the earthing tag	mm	1,5	xxxxx
3	3.3.4	Size of the fixing hole	mm	8,3	
4	3.3.5	Is the earthing tag marked with the hole size for the gland?	Yes/No	Yes	
5	3.3.5	Brand name or trade mark marked on the earthing tag?	Yes/No	Yes	xxxxx
6	5	Type test report		Required	xxxxx
7	6.1	Does the marking comply with this specification?	Yes/No	Yes	
8	6.2	Does the labelling comply with this specification?	Yes/No	Yes	
9	6.3	Does the packing comply with this specification?	Yes/No	Yes	
10	6.3.2	Installation instructions		Required	xxxxx
11	7	Technical catalogue provided		Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 18 - EARTHING TAG GLAND NO 5 – SAP No. 405

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX C – Item 19 - EARTHING TAG GLAND NO 6 – SAP No. 891

Schedule A: Purchaser's specific requirements
Schedule B: Guarantees and technical particulars of equipment offered

Item	Subclause of CP_TSSPEC_030	Description		Schedule A	Schedule B
1	3.3.2	Earthing tag to be nickel plated brass	Yes/No	Required	xxxxx
2	3.3.2	Thickness of the earthing tag	mm	1,5	xxxxx
3	3.3.4	Size of the fixing hole	mm	8,3	
4	3.3.5	Is the earthing tag marked with the hole size for the gland?	Yes/No	Yes	
5	3.3.5	Brand name or trade mark marked on the earthing tag?	Yes/No	Yes	xxxxx
6	5	Type test report		Required	xxxxx
7	6.1	Does the marking comply with this specification?	Yes/No	Yes	
8	6.2	Does the labelling comply with this specification?	Yes/No	Yes	
9	6.3	Does the packing comply with this specification?	Yes/No	Yes	
10	6.3.2	Installation instructions		Required	xxxxx
11	7	Technical catalogue provided		Required	xxxxx

Tender Number: _____

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

Full name of company: _____

Item 19 - EARTHING TAG GLAND NO 6 – SAP No. 891

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	Subclause of CP_TSSPEC_030	Proposed deviation

Tender Number: _____

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

Full name of company: _____

ANNEX D – Stock Items

Material Group : ELEC-ACCS

Item	SAP No.	SAP Short Description	SAP Long Description
1	5567	GLAND LV NO 0 METAL	GLAND, METAL, ADJUSTABLE WITH DIFFERENTIAL THREAD ACTION, SIZE NO.0, SUITABLE FOR 2,5 MM SQ X 2 CORE LOW VOLTAGE SWA C COPPER ABLE. ITEM SPECIFICATION NO.CP_TSSPEC_030
2	5568	GLAND LV NO 1 METAL	GLAND, METAL, ADJUSTABLE WITH DIFFERENTIAL THREAD ACTION, SIZE NO.1, SUITABLE FOR 2,5 MM SQ X 2 TO 4 MM X 4 CORE LOW VOLTAGE SWA C COPPER ABLE. ITEM SPECIFICATION NO.CP_TSSPEC_030
3	5602	GLAND LV NO 2 METAL	GLAND, METAL, ADJUSTABLE WITH DIFFERENTIAL THREAD ACTION, SIZE NO.2, SUITABLE FOR 16 MM SQ X 2 CORE LOW VOLTAGE SWA C COPPER ABLE. ITEM SPECIFICATION NO.CP_TSSPEC_030
4	5757	GLAND LV NO 3 METAL	GLAND, METAL, ADJUSTABLE WITH DIFFERENTIAL THREAD ACTION, SIZE NO. 3, SUITABLE FOR 16 MM SQ X 4 TO 25 MM SQ X 4 CORE LOW VOLTAGE SWA COPPER CABLE. ITEM SPECIFICATION NO.CP_TSSPEC_030
5	5901	GLAND LV NO 4 METAL	GLAND, METAL, ADJUSTABLE WITH DIFFERENTIAL THREAD ACTION, SIZE NO.4, SUITABLE FOR 35 MM SQ X 4 TO 70 MM SQ X 4 CORE LOW VOLTAGE SWA COPPER CABLE. ITEM SPECIFICATION NO.CP_TSSPEC_030
6	6303	GLAND LV NO 5 METAL	GLAND, METAL, ADJUSTABLE WITH DIFFERENTIAL THREAD ACTION, SIZE NO. 5, SUITABLE FOR 120 MM SQ X 4 CORE LOW VOLTAGE SWA AL CABLE. ITEM SPECIFICATION NO.CP_TSSPEC_030
7	5758	GLAND LV NO 6 METAL	GLAND, METAL, ADJUSTABLE WITH DIFFERENTIAL THREAD ACTION, SIZE NO. 6, SUITABLE FOR 185 MM SQ X 4 CORE LOW VOLTAGE SWA ALUMINIUM CABLE. ITEM SPECIFICATION NO.CP_TSSPEC_030
8	6018	SHROUD GLAND NO 0 LONG	SHROUD, SIZE 0, LONG, BLACK RUBBER, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.0. ITEM SPECIFICATION NO.CP_TSSPEC_030
9	191	SHROUD GLAND NO 1 LONG	SHROUD, SIZE 1, LONG, BLACK RUBBER, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.1. ITEM SPECIFICATION NO.CP_TSSPEC_030
10	6019	SHROUD GLAND NO 2 LONG	SHROUD, SIZE 2, LONG, BLACK RUBBER, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.2. ITEM SPECIFICATION NO.CP_TSSPEC_030
11	6020	SHROUD GLAND NO 3 LONG	SHROUD, SIZE 3, LONG, BLACK RUBBER, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.3. ITEM SPECIFICATION NO.CP_TSSPEC_030
12	5902	SHROUD GLAND NO 4 LONG	SHROUD, SIZE 4, LONG, BLACK RUBBER, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO4. ITEM SPECIFICATION NO.CP_TSSPEC_030

**SPECIFICATION FOR METAL CABLE
GLANDS**

REFERENCE

REV

CP_TSSPEC_030

3

PAGE

49

OF

49

13	6304	SHROUD GLAND NO 5 LONG	SHROUD, SIZE 5, LONG, BLACK RUBBER, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.5. ITEM SPECIFICATION NO.CP_TSSPEC_030
14	5904	SHROUD GLAND NO 6 LONG	SHROUD, SIZE 6, LONG, BLACK RUBBER, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.6. ITEM SPECIFICATION NO.CP_TSSPEC_030
15	5604	EARTHING TAG GLAND NO 2	EARTHING TAG, BRASS, SIZE 2, WITH A 6,3 MM DIAMETER EARTHING HOLE, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.2. ITEM SPECIFICATION NO.CP_TSSPEC_030
16	403	EARTHING TAG GLAND NO 3	EARTHING TAG, BRASS, SIZE 3, WITH A 6,3 MM DIAMETER EARTHING HOLE, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.3. ITEM SPECIFICATION NO.CP_TSSPEC_030
17	404	EARTHING TAG GLAND NO 4	EARTHING TAG, BRASS, SIZE 4, WITH A 6,3 MM DIAMETER EARTHING HOLE, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.4. ITEM SPECIFICATION NO.CP_TSSPEC_030
18	405	EARTHING TAG GLAND NO 5	EARTHING TAG, BRASS, SIZE 5, WITH A 8,3 MM DIAMETER EARTHING HOLE, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.5. ITEM SPECIFICATION NO.CP_TSSPEC_030
19	891	EARTHING TAG GLAND NO 6	EARTHING TAG, BRASS, SIZE 6, WITH A 8,3 MM DIAMETER EARTHING HOLE, SUITABLE TO FIT A METAL CABLE GLAND SIZE NO.6. ITEM SPECIFICATION NO.CP_TSSPEC_030