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|-------|---|----------------------|---------------------|
| TITLE | SPECIFICATION FOR CARPENTRY MATERIAL | REFERENCE | REV |
| | | CP_TSSPEC_386 | 1 |
| | | DATE: | OCTOBER 2024 |
| | | PAGE: | 1 OF 20 |

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FOREWORD

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2016

1. INTRODUCTION

City Power is a State-Owned Company (SOC) distributing and selling electricity to the City of Johannesburg and its surroundings. City Power requires a qualifying service provider for the supply and delivery of carpentry material. The required material shall comply with relevant building regulations and meet City Powers building material standards as well as requirements. This material shall be used for upgrade and maintenance in City Powers buildings.

2. SCOPE

The scope of works entails the supply and delivery of all carpentry material on the as and when required basis as specified in the Bill of Quantities. The material is to be delivered at City Power's depots. Details requirements for carpentry material shall be in line with stipulated legislature and City Power's standards.

3. NORMATIVE REFERENCES

The following document contains provisions that, through reference in the text, constitute requirements of this specification. At the time of publication, the edition indicated was 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 edition of the document listed below.

SANS 6122:2014 *Structural timber — Characteristic values of strength-graded timber — Sampling, full-size testing and evaluation.*

SANS 1783-3:2010 *Sawn softwood timber Part 3: Industrial timber*

SANS 1288:2020 *Preservative-treated timber*

SANS 1783:2018, 1 – 5 *Sawn softwood timber*

SANS 2001:2011 *Construction works Part CT1: Structural timberwork (flooring).*

SANS 10187-4:2013 *Load securement on vehicles Part 4: Timber and sugar cane*

SANS 929:2008 *Plywood and composite board*

SANS 4586-1:2013 *High-pressure decorative laminates — Sheets made from thermosetting resins Part 2: Determination of properties*

SANS 8892:2020 *Standard for performance-rated cross-laminated timber*

SANS 1763:2015, *Decorative melamine-faced boards*

SANS 745-3:2008 *Structural laminated veneer lumber Part 3: Determination of structural properties Evaluation methods*

SANS 266:2003 *Gypsum plasterboard.*

SANS 540-1:2009 *Fibreboard products Part 1: Uncoated fibreboard.*

SANS 540-2:2009 *Fibreboard products Part 2: Coated fibreboard.*

SABS 0163-2. *The structural use of timber Allowable stress design.*

SANS 1253:2016 *Fire-doors and fire-shutters*

SANS 10400-T: 2020. *The application of the National Building Regulations Part T: Fire protection*

SANS 1171:2011; *Metal screws for wood*

SANS 1700-3-12:1996; *Countersunk flat head screws —Penetration depth of cross recesses*

SANS 1700-1-1:2010; *Bolts, screws, nuts and accessories*

SANS 10183:2000 *Adhesive for wood*

SANS 1385:2015. *Kitchen cupboards: Built-in and freestanding*

BS EN 1313-1:2020; *Round and sawn timber - Permitted deviations and preferred sizes Part 1: Softwood sawn timber*

BS 8201:2021; *Code of practice for installation of flooring of wood and wood-based panels*

4. ABBREVIATIONS

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

5. REQUIREMENTS

5.1 Environmental conditions

- a) Ambient temperature range of –20°C to +65°C
- b) Relative humidity 5-95% @ 50°C

5.2 General Requirements

5.2.1 Timber shall comply with SANS 6122:2014 and SANS 1783-1:2012

5.2.1.1 Timber shall be properly seasoned and sawn square, straight and true free from high resin content or knots, shakes.

5.2.1.2 Joinery quality timber shall be well seasoned and free from any defects.

- 5.2.1.3 Moisture content of timber after drying and air seasoning shall not exceed 6% for timber used internally and 8% for timber used externally.
- 5.2.1.4 The Service provider shall supply a copy of the timber supplier's certificate specifying the moisture content on delivery.
- 5.2.1.5 Preservatives for timber shall be pressure or immersion impregnated complying with SANS 1288:2020
- 5.2.1.6 Timber shall be thoroughly seasoned and matured, sound, straight, free from warp, sapwood, signs of rot, shakes, large and loose knots, worm holes, waness, defects, and shall be sawn wrought die square and true on all four sides, or circular, to the shapes on the Drawings as to SANS 10163-2
- 5.2.1.7 Timber shall contain sound or tight knots on any surface provided that the mean diameter of any one knot does not exceed 20 mm and the knot nowhere occupies more than one sixth of the width of the surface.
- 5.2.1.8 Samples of each of the approved hardwoods shall be kept on site, stored in such a manner that the color shall not be affected by sunlight.
- 5.2.1.9 All hardwood subsequently used in the Works shall be of the same quality and color as the approved samples.
- 5.2.1.10 Joinery timber shall be of sufficient size and strength for its specific function as to SANS 54545:2010
- 5.2.1.11 Structural softwood shall comply with SANS 1783, 1 – 5 and SANS 2001 - CT1:2011
- 5.2.1.12 Nonstructural softwood shall be as BS EN 1313: Part 1.
- 5.2.1.13 Transportation of timber shall not exceed limits set out in SANS 10187-4:2013
- 5.2.2 Plywood and composite boards shall comply with SANS 929:2008.
- 5.2.2.1 Plywood shall be manufactured from timber species selected for suitable density, bending strength, impact resistance and surface finishing characteristics.
- 5.2.2.2 Veneered plywood shall be of uniform density panels made of very fine fibers, suitable for routing and molding.
- 5.2.2.3 Weather and boil proof plywood shall be usable outside.
- 5.2.2.4 Water resistant adhesives shall be used to can resist a certain amount of moisture.
- 5.2.2.5 Plywood shall be free from end joints (including scarf joints in veneers), overlaps in core veneers, dead knots, patches and plugs, open defects, depressions due to defects in core, insect attack (except isolated pinwork holes through face veneers only), fungal attack and from discolorations differing from that normally associated with species.
- 5.2.3 Melamine shall be not less than 1.5 mm thick and shall comply with SANS 1763:2015, and of an approved colour and pattern.
- 5.2.4 Veneers and laminates shall comply with SANS 745-3:2008
- 5.2.5 Face veneer shall be hard and durable, capable of being finished to a smooth surface and be equal to an approved sample.

- 5.2.6 Protection shall be paint or varnish to protect the outer veneer from the elements.
- 5.2.7 Laminated board shall comply with SANS 8892.
- 5.2.8 High Pressure Laminates shall comply with SANS 4586-1:2013.
- 5.2.9 High pressure laminates shall have a high resistance to abrasion, high temperature, dirt, shock, cigarette ignition and open flames and stain resistance.
- 5.2.10 Block board shall comply with BS 8201 and shall be fabricated of high quality, solid core composite materials with an overall thickness of 38 mm or otherwise as indicated on contract drawings.
- 5.2.11 Fiberboard shall comply with SANS 540-1:2009 and SANS 540-2:2009
- 5.2.12 Fiberboard be hardboard, made from wood fibers glued under heat and pressure.
- 5.2.13 Fiberboard shall be of high density, flat, stiff, shall have no knots, and shall be easy machined.
- 5.2.14 Fiberboard shall accept painting to produce a smooth quality surface.
- 5.2.15 Particleboards shall comply with SANS 50312:2015
- 5.2.16 Particleboards shall be a rigid board with a relatively smooth surface. It shall be flame retardant and moisture resistant.
- 5.2.17 Gypsum plasterboard shall comply with SANS 266:2003
- 5.2.18 Core encased plasterboard shall be a heavy duty linerboard with long edges that shall be recessed for flush jointing.
- 5.2.19 Plasterboard shall incorporate controlled density technology
- 5.2.20 Calcium silicate board shall comply with requirements of building regulations and city power's standards.
- 5.2.21 The following properties of the calcium silicate board shall be met for:
- 5.2.21.1 Thickness 6 mm–12 mm
- 5.2.21.2 Density 875 kg/m³–900 kg/m³
- 5.2.21.3 Weight 11.5 kg/m²
- 5.2.21.4 Thermal conductivity 0.17 W/mK
- 5.2.21.5 Moisture movement + 0.04%

5.3 Doors

- 5.3.1 Doors shall comply generally with the requirements of SANS 545:2018 and samples shall be submitted to facilities management for approval.
- 5.3.2 The cores of solid core flush doors shall be constructed using longitudinal laminations of precision-planed timber, butt-jointed, glued with resin-based adhesive under hydraulic pressure, and the whole forming a rigid fire-resistant raft.
- 5.3.3 Both sides shall be covered with external grade plywood not less than 6 mm thick and in accordance with the general requirements of Class 1.
- 5.3.4 Solid Core Doors with Plastic Laminate Faces shall meet the following; (45 mm and 54 mm thick or as specified by facilities management).

- 5.3.4.1 Plastic Laminate Color, Finish and Pattern: As indicated, or, if not indicated, as approved from manufacturer's standard products.
- 5.3.4.2 Grade: Premium
- 5.3.5 Panel Doors (45 mm or 54 mm thick or otherwise as indicated on Contract Drawings) – transparent finish
 - 5.3.5.1 Stiles and rails shall be of solid hardwood oak or Burma teak or other as approved.
 - 5.3.5.2 Panels shall be premium quality oak veneered (or other woods as approved) faces to high density particleboard (minimum 450 kg/m³) or wood block core.
 - 5.3.5.3 Door construction and finishes shall be as per the approved shop drawings.
 - 5.3.5.4 All panel doors shall be factory painted, stained or polished.
- 5.3.6 Fire-check Doors
 - 5.3.6.1 Fire-resisting flush doors shall be constructed in accordance with the requirements of SANS 10400-T: 2020 and SANS 1253:2016.
 - 5.3.6.2 Unless specified elsewhere, fire doors shall be self-closing and clearly labelled as "Fire Door" in clear and readable English on both sides.
 - 5.3.6.3 Any glazed openings required shall be restricted to the area given or as approved by City Power.
 - 5.3.6.4 Glazing beads shall be metal or hardwood.

5.4 Kitchen Cabinets and Cupboards

- 5.4.1 Kitchen and tearoom units shall be suitable for the general domestic or office environments and for heavy workshop use.
- 5.4.2 Worktops, wall units, doors, hinges and other drawer types shall comply with SANS 1385:2015.
- 5.4.3 The Service provider shall store, assemble and fix kitchen fittings in accordance with the manufacturer's printed instructions and shall leave them clean and in working order at completion.
- 5.4.4 Joints shall be provided for sinks, worktops and walls to be sealed with approved silicone sealant.
- 5.4.5 Stainless steel sinks and drainers shall have integral roll-up back and a standard satin furnish.
- 5.4.6 Sinks shall be supplied complete with taps, plug, chain, strain waste etc.

5.5 Wood Adhesive

- 5.5.1 Adhesives shall be moisture resistant or waterproof, suited for the purpose and recommended by the manufacturer for the application.
- 5.5.2 Adhesives shall comply with SANS 10183 as applicable and shall be of type MR or INT for internal work and type WBP for external work.
- 5.5.3 Adhesives for fixing laminated plastic sheets to wood surfaces shall be petroleum-based contact adhesives of approved type.
- 5.5.4 Poly Vinyl Acetate types of adhesives shall not be accepted.

5.6 Screws

- 5.6.1 The type, size, material and finish of screws shall be as required to suit the condition and the proper anchorage of woodwork as to SANS 1700-1-1:2010.
- 5.6.2 Countersunk screws shall comply with SANS 1700-3-12:1996.
- 5.6.3 Steel nails shall comply with SANS 820:2011.
- 5.6.4 Metal screws shall be manufactured to SANS 1171:2011

5.7 Product Delivery, Storage and Handling

- 5.7.1 Timber for use on site shall be properly stacked and protected from the weather and ground contamination in such a manner that the moisture content is not adversely affected.
- 5.7.2 The Service provider shall store flush doors in a weatherproof shed stacked in a flat position to preserve their true shape until required for use.
- 5.7.3 Timber shall be kept dry and not overstressed, distorted or disfigured during transit, storage, lifting, erection or fixing.
- 5.7.4 Timber and components shall be stored under cover, clear of ground and with good ventilation, supported on regularly spaced, level bearers on a dry, firm base, and in an open pile to ensure free movement of air through the stack.
- 5.7.5 Carpentry work, which does not form an essential part of the structural material, shall not be executed nor brought onto site until required, unless the Service provider can give assurance that such materials will be adequately stored and protected

6. SAMPLES

Samples shall be submitted for approval as required by City power.

7. DOCUMENTATION

- 7.1 Technical product catalogue and installation manuals for all material shall be provided.
- 7.2 The manuals shall include drawing with technical specifications.
- 7.3 The service provider shall make available all documentation for all equipment and services rendered in both hard and soft copy

8. GUARANTEES AND WARANTEES

- 8.1 The Service Provider shall provide a single written document outlining the warranty of the manufacturer(s) product and the Service Provider's installation, on a single document.
- 8.2 The document shall warrant complete installation of all services and equipment to be free from defects in materials and workmanship for a period of no less than five years, from date of completion.

8.3 The manufacturer's warranty, extended warranty and replacement policies shall be included for each specified component. All major components shall carry a five-year warranty, from the installation date.

9. QUALITY MANAGEMENT

A quality management system shall be set up in order to assure the quality during manufacture, installation, removal, transportation and disposal. Guidance on the requirements for a quality management system may be found in the following standards: ISO 9001:2015. The details shall be subject to agreement between the purchaser and supplier.

10. ENVIRONMENTAL MANAGEMENT

An environmental management plan shall be set up in order to ensure the proper environmental management and compliance is adhered to during, removal, transportation and disposal of scrap. Guidance on the requirements for an environmental management system shall 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 during manufacture, installation, removal, transportation, and disposal. Guidance on the requirements of a health and safety plan shall be found in ISO 45001:2018 standards. The details shall be subject to an agreement between City Power and the Supplier.

ANNEXURE A - BIBLIOGRAPHY

None

ANNEXURE B - REVISION INFORMATION

| DATE | REV.NO | NOTES |
|--------------|--------|---|
| May 2023 | 0 | First issue |
| October 2024 | 1 | Second issue General editing Updated ISO 18001 to 45001 Updated work group members |

Annex C - Technical Schedules A and B (Timber)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

| Item | Sub-clause of CP_TSSPEC_386 | Description | Schedule A (required) | Schedule B |
|------|--------------------------------|--|--------------------------|-------------|
| | | Name of OEM | XXXX | |
| | 5.1 | Environmental conditions | XXXX | XXXX |
| | a) | Ambient temperature range of –20°C to +65°C | Required | |
| | b) | Relative humidity 5-95% @ 50°C | Required | |
| | 5.2.1 | Timber shall comply with SANS 6122:2014 and SANS 1783-1:2012 | Required | |
| | 5.2.1.1 | Timber shall be properly seasoned and sawn square, straight and true as to clause 5.2.1.1 | Required | |
| | 5.2.1.2 | Joinery quality timber shall be well seasoned and free from any defects. | Required | |
| | 5.2.1.3 | Moisture content of timber after drying and air seasoning shall not exceed 6% for timber used internally and 8% for timber used externally. | Required | |
| | 5.2.1.4 | The Service provider shall supply a copy of the timber supplier's certificate as to clause 5.2.1.4 | Required | |
| | 5.2.1.5 | Preservatives for timber shall be pressure or immersion impregnated as to SANS 1288:2020 | Required | |
| | 5.2.1.6 | Timber shall be thoroughly seasoned in accordance with clause 5.2.1.6, and shall be sawn wrought die square and true on all four sides, or circular, to the shapes on the Drawings as to SABS 0163-2 | Required | |
| | 5.2.1.7 | Timber may contain sound or tight knots on any surface provided that the mean diameter of any one knot does not exceed 20 mm as to clause 5.2.1.7 | Required | |
| | 5.2.1.8 | Samples of each of the approved hardwoods shall be kept on site, stored in such a manner that the colour shall not be affected by sunlight. | Required | |
| | 5.2.1.9 | All hardwood subsequently used in the Works shall be of the same quality and colour as the approved samples. | Required | |
| | 5.2.1.10 | Joinery timber shall be of sufficient size and strength for its specific function as to SANS 54545:2010 | Required | |
| | 5.2.1.11 | Structural softwood shall comply with SANS 1783, 1 – 5 and SANS 2001 - CT1:2011 | Required | |
| | 5.2.1.12 | Non-structural softwood shall be as BS EN 1313: Part 1. | Required | |
| | 5.2.1.13 | Transportation of timber shall not exceed limits set out in SANS 10187-4:2013 | Required | |

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

Tender Number: _____

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

Full name of company: _____

**Annex C - Technical Schedules A and B
(Wood Boards/Panels)**

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

| Item | Sub-clause of CP_TSSPEC_386 | Description | Schedule A (Required) | Schedule B |
|------|--------------------------------|--|--------------------------|------------|
| | | Name of OEM | XXXX | |
| | 5.2.2 | Plywood and composite boards shall comply with SANS 929:2008. | | |
| | 5.2.2.1 | Plywood shall be manufactured from timber species selected for suitable density, as to clause 5.2.2.1 | | |
| | 5.2.2.2 | Veneered plywood shall be of uniform density panels made of very fine fibres, suitable for routing and moulding. | | |
| | 5.2.2.3 | Weather and boil proof plywood shall be usable outside. | | |
| | 5.2.2.4 | Water resistant adhesives shall be used to can resist a certain amount of moisture. | | |
| | 5.2.2.5 | Plywood shall be free from end joints, overlaps in core veneers, dead knots, patches and plugs in accordance with clause 5.2.2.5 | | |
| | 5.2.3 | Melamine shall be not less than 1.5 mm thick and shall comply with SANS 1763:2015, and of an approved colour and pattern. | | |
| | 5.2.4 | Veneers and laminates shall comply with SANS 745-3:2008 | | |
| | 5.2.5 | Face veneer shall be hard and durable, capable of being finished to a smooth surface and be equal to an approved sample. | | |
| | 5.2.6 | Protection shall be paint or varnish to protect the outer veneer from the elements. | | |
| | 5.2.7 | Laminated board shall comply with SANS 8892. | | |
| | 5.2.8 | High Pressure Laminates shall comply with SANS 4586-1:2013. | | |
| | 5.2.9 | High pressure laminates shall have a high resistance to abrasion, high temperature, dirt, shock, cigarette ignition and open flames and stain resistance. | | |
| | 5.2.10 | Block board shall comply with BS 8201 and shall be fabricated with high quality, solid core composite materials with an overall thickness of 38 mm or otherwise as indicated on contract drawings. | | |

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

Tender Number: _____

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

Full name of company: _____

**Annex C - Technical Schedules A and B (Wood Boards/Panels)
Continued**

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

| Item | Sub-clause of CP_TSSPEC_386 | Description | Schedule A (REQUIRED) | Schedule B |
|------|--------------------------------|---|--------------------------|------------|
| | | Name of OEM | XXXX | |
| | 5.2.11 | Fiberboard shall comply with SANS 540-1:2009 and SANS 540-2:2009 | | |
| | 5.2.12 | Fiberboard be hardboard, made from wood fibers glued under heat and pressure. | | |
| | 5.2.13 | Fiberboard shall be of high density, flat, stiff, shall have no knots, and shall be easy machined. | | |
| | 5.2.14 | Fiberboard shall accept painting to produce a smooth quality surface. | | |
| | 5.2.15 | Particleboards shall comply with SANS 50312:2015 | | |
| | 5.2.16 | Particleboards shall be a rigid board with a relatively smooth surface. It shall be flame retardant and moisture resistant. | | |
| | 5.2.17 | Gypsum plasterboard shall comply with SANS 266:2003 | | |
| | 5.2.18 | Core encased plasterboard shall be a heavy duty linerboard with long edges that shall be recessed for flush jointing. | | |
| | 5.2.19 | Plasterboard shall incorporate controlled density technology | | |
| | 5.2.20 | Calcium silicate board shall comply with requirements of building regulations and city power's standards. | | |
| | 5.2.21 | The following properties of the calcium silicate board shall be met for: | | |
| | 5.2.21.1 | Thickness 6 mm–12 mm | | |
| | 5.2.21.2 | Density 875 kg/m ³ –900 kg/m ³ | | |
| | 5.2.21.3 | Weight 11.5 kg/m ² | | |
| | 5.2.21.4 | Thermal conductivity 0.17 W/mK | | |
| | 5.2.21.5 | Moisture movement + 0.04% | | |

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

Tender Number: _____

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

Full name of company: _____

**Annex C - Technical Schedules A and B
Doors**

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

| Item | Sub-clause of CP_TSSPEC_386 | Description | Schedule A (REQUIRED) | Schedule B |
|------|--------------------------------|---|--------------------------|------------|
| | | Name of OEM | XXXX | |
| | 5.3.1 | Doors shall comply generally with the requirements of SANS 545:2018 and samples shall be submitted to facilities management for approval. | Required | |
| | 5.3.2 | The cores of solid core flush doors shall be constructed using longitudinal laminations of precision-planed timber as to 5.3.2 | Required | |
| | 5.3.3 | Both sides shall be covered with external grade plywood not less than 6 mm thick and in accordance with clause 5.3.3 | >=6mm | |
| | 5.3.4 | Solid Core Doors with Plastic Laminate Faces shall meet the following; (45 mm and 54 mm thick or as specified by facilities management). | Required | |
| | 5.3.4.1 | Plastic Laminate Colour, Finish and Pattern: As indicated, or, if not indicated, as approved from manufacturer's standard products. | Required | |
| | 5.3.4.2 | Grade: Premium | Required | |
| | 5.3.5 | Panel Doors (45 mm or 54 mm thick or otherwise as indicated on Contract Drawings) – transparent finish | Required | |
| | 5.3.5.1 | Stiles and rails shall be of solid hardwood oak or Burma teak or other as approved. | Required | |
| | 5.3.5.2 | Panels shall be premium quality oak veneered faces to high density particleboard as to clause 5.3.5.2 | Required | |
| | 5.3.5.3 | Door construction and finishes shall be as per the approved shop drawings. | Required | |
| | 5.3.5.4 | All panel doors shall be factory painted, stained or polished. | Required | |
| | 5.3.6.1 | Fire-resisting flush doors shall be constructed in accordance with the requirements of SANS 10400-T:2020 and SANS 1253:2016. | Required | |
| | 5.3.6.2 | Fire doors shall be self-closing and clearly labelled as "Fire Door" in accordance with clause 5.3.6.2. | Required | |
| | 5.3.6.3 | Any glazed openings required shall be restricted to the area given or as approved by City Power. | Required | |
| | 5.3.6.4 | Glazing beads shall be metal or hardwood. | Required | |

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

Tender Number: _____

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

Full name of company: _____

Annex C - Technical Schedules A and B Cupboards, Adhesives and Screws

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

| Item | Sub-clause of CP_TSSPEC_386 | Description | Schedule A (required) | Schedule B |
|------|--------------------------------|---|--------------------------|------------|
| | | Name of OEM | XXXX | |
| | 5.4.1 | Kitchen and tearoom units shall be suitable for the general domestic or office environments and for heavy workshop use. | Required | |
| | 5.4.2 | Worktops, wall units, doors, hinges and other drawer types shall comply with SANS 1385:2015. | Required | |
| | 5.4.3 | The Service provider shall store, assemble and fix kitchen fittings in accordance with clause 5.4.3 | Required | |
| | 5.4.4 | Joints provided for sinks, worktops and walls shall be sealed with approved silicone sealant. | Required | |
| | 5.4.5 | Stainless steel sinks and drainers shall have integral roll-up back and a standard satin furnish. | Required | |
| | 5.4.6 | Sinks shall be supplied complete with taps, plug, chain, strain waste etc. | Required | |
| | 5.5.1 | Adhesives shall be moisture resistant or waterproof, suited for the purpose as to clause 5.5.1 | Required | |
| | 5.5.2 | Adhesives shall comply with SANS 10183 in accordance with clause 5.5.2 | Required | |
| | 5.5.3 | Adhesives for fixing laminated plastic sheets to wood surfaces shall be contact adhesives of approved type. | Required | |
| | 5.5.4 | Poly Vinyl Acetate types of adhesives will not be accepted. | Required | |
| | 5.6.1 | The type, size, material and finish of screws shall be as required to suit the condition and the proper anchorage of woodwork as to SANS 1700-1-1:2010. | Required | |
| | 5.6.2 | Countersunk screws shall comply with SANS 1700-3-12:1996. | Required | |
| | 5.6.3 | Steel nails shall comply with SANS 820:2011. | Required | |
| | 5.6.4 | Metal screws shall be manufactured to SANS 1171:2011 | Required | |

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

Tender Number: _____

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

Full name of company: _____

Annex C - Technical Schedules A and B Storage, Warranties & documentation

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

| Item | Sub-clause of CP_TSSPEC_386 | Description | Schedule A (required) | Schedule B |
|------|--------------------------------|--|--------------------------|------------|
| | | Name of OEM | XXXX | |
| | 5.7.1 | Timber for use on site shall be properly stacked and protected from contamination as to clause 5.7.1 | Required | |
| | 5.7.2 | Flush doors shall be stored in a weatherproof shed stacked in a flat position as to clause 5.7.2 | Required | |
| | 5.7.3 | Timber shall be kept dry and not overstressed, distorted or disfigured as to clause 5.7.3 | Required | |
| | 5.7.4 | Timber and components shall be stored under cover, clear of ground with good ventilation, as to clause 5.7.4 | Required | |
| | 5.7.5 | Carpentry work that does not form an essential part of the structural material, shall not be executed nor brought onto site until required, as to clause 5.7.5 | Required | |
| | 6. | Samples shall be submitted for approval as required. | Required | |
| | 7.1 | Technical product catalogue and installation manuals for all material shall be provided. | Required | |
| | 7.2 | The manuals shall include drawing with technical specifications. | Required | |
| | 7.3 | The service provider shall make available all documentation for all equipment and services rendered in both hard and soft copy | Required | |
| | 8.1 | The Service Provider, shall provide a single written document outlining the warranty of the manufacturer(s) product as to clause 8.1 | Required | |
| | 8.2 | The document shall warrant complete installation of all services and equipment in accordance with clause 8.2 | Required | |
| | 8.3 | The manufacturer's warranty, extended warranty and replacement policies shall be included for each specified component in accordance with clause 8.3 | Required | |
| | 9 | A quality management system shall be set up in accordance with clause 9 | Required | |
| | 10 | An environmental management plan shall be set up in accordance with clause 10 | Required | |
| | 11 | A health and safety plan shall be set up in accordance with clause 11 | Required | |

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

Tender Number: _____

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

Full name of company: _____

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_386 | Proposed deviation |
|------|--------------------------------|--------------------|
| | | |

Tender Number: _____

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

Full name of company: _____

ANNEXURE D – Stock Items

It is not intended that City Power shall keep stock of these items.