

## PROPOSED SECURITY UPGRADES AT LANGEBAAN POLICE STATION: WESTERN CAPE PROVINCE

### Installation

- SANS 1029: Miniature substations for rated ac voltages up to and including 24kV
- SANS 10225: The design and construction of lighting masts
- SANS 62031: LED modules for general lighting – Safety Specifications
- SANS 60598: Luminaires – Part 1: General requirements and tests
- SANS 10400: The application of the National Building Regulations.
- South African Occupational Health and Safety Act (Act 85 of 1993).

## 4. EXECUTION OF WORKS

The Contractor shall submit to the SAPS Technician a detailed programme of the Works within 5 days from the acceptance of this tender showing the intended method, stages and order of work execution in coordination with the building construction programme, together with the duration he/she estimated for each and every stage of the Works. The programme shall include at least the following:-

- Dates for the placement of orders for equipment and materials.
- Dates of commencement and completion of every stage of the Works in line with the building construction programme.
- Dates of completion, testing and commissioning.

## 5. AREA LIGHTING

- All area/street lighting must be done with **3.6m Glass-Fibre Reinforced Poles** that comply with the requirements of SANS 10225 (The design and construction of lighting masts). The poles will be planted at a distance of 10m from one another, depth of 600mm below the natural ground level, and about 1m away from the Perimeter Fence or Walkway.

**Table 5.1:** Typical Single Step Pole

Typical Single Step Pole				
HT	MH	D1	D2	D3
3.6m	3m	1.5m X 114 OD X 3mm	2m X 76 OD X 3mm	600mm
4.1m	3.5m	1.5m X 114 OD X 3mm	2.6m X 76 OD X 3mm	600mm
4.6m	4m	2m X 114 OD X 3mm	2.6m X 76 OD X 3mm	600mm
5.2m	4.5m	2.2m X 114 OD X 3mm	3m X 76 OD X 3mm	700mm

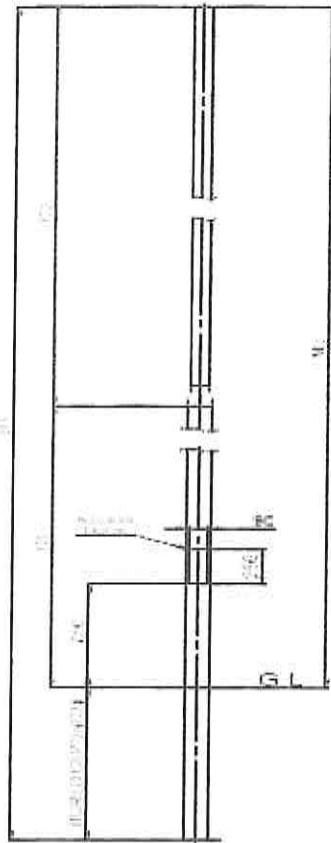


Figure 5.1: Typical Step Pole

- The luminaires will be post-top and shall comply with SANS 60598 and SABS 1277. The luminaires shall have a minimum class protection rating of IP 66 and shall operate 46 W LED lights. Control gear shall be fully housed within the body of the luminaire and shall be suitable for operating 46 W LED lights. The control gear shall be mounted so that the control gear for repair or replacement may be carried out without removing the luminaire from its mounting.
- The SAPS LED Post Top Police version (Blue Light) luminaire will be mounted on the external wall of the Building next to the pedestrian entrance to the CSC. The SAPS version has a blue protector and is of 19 Watt power rating for the specific purpose of indicating the public entrance to the premises to passers-by. The SAPS blue version will also be of a-symmetrical configuration.
- All luminaires to be connected to emergency power supply.
- The supply to the lighting circuit shall be by means of 4mm<sup>2</sup> x 3 Core, 600/1000 V, copper, SWA/PVC cable, and protected by 10A single pole MCB complying with SANS 60947-2.
- 3Core x 4 mm<sup>2</sup>, PVC-insulated SWA copper conductors is to be used for lighting installations.

## PROPOSED SECURITY UPGRADES AT LANGEBAAN POLICE STATION: WESTERN CAPE PROVINCE

- All wiring passing through metal shall have suitable grommets or otherwise protected to avoid abrasion of the insulation.
- Luminaires shall be earthed in accordance with SANS 60598-2-3. The body of the lamp holder shall be connected to the supply earth. The neutral and earth shall be interconnected in the luminaire.
- Wiring between the luminaire and the cable connection at the bottom of the pole shall consist of two 4 mm<sup>2</sup> PVC-insulated copper conductors.

### 6. DECORATIVE LED POST TOP TECHNICAL SPECIFICATION



Symmetrical



Asymmetrical



SAPS LED Blue Version

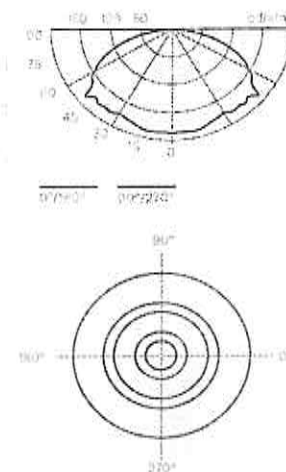
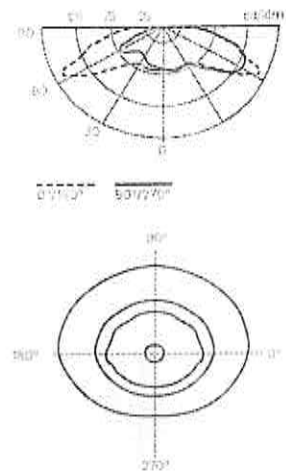
### General Specifications

Product Description	This post top luminaire provides a new contemporary design for a well-known shape using state-of-the-art LED technology. It consists of a high-pressure die-cast marine grade aluminium (EN 1706 AC-44300) base and gear plate, a top cover made of Acrylonitrile Styrene Acrylate (ASA) and a high-impact acrylic protector for durability and weather resistance. The luminaire emits a pleasant, glare-free light due to the highly efficient white reflector (symmetrical light distribution). A faceted reflector is available as an option (asymmetrical distribution). The complete luminaire is sealed to IP 66. Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs (ThermiX®). It is designed for LED light sources between 22W and 46W.
Main applications	<ul style="list-style-type: none"> <li>• Group B Road Lighting</li> <li>• General Area Lighting</li> <li>• Parks and Garden</li> <li>• Security Lighting</li> </ul>
Recommended mounting height	3 – 6m

### Photometry

Light source	LED
LED	2mm <sup>2</sup> LED
Colour temperature	4000K (Neutral White 740) Optional - 5700K (Cool white 757)
Colour rendering (Ra)	>70 (Neutral White 740) Optional - >70 (Cool White 740)

# PROPOSED SECURITY UPGRADES AT LANGEBAAN POLICE STATION: WESTERN CAPE PROVINCE

Lumen package 22W to 46W	3270lm to 6540lm * see table below
Optics	Symmetrical, Asymmetrical
Photometry:	<div> <div>Symmetrical</div>  </div> <div> <div>Asymmetrical</div>  </div>

	Overview				Lifetime Residual Flux @ Tq 25°C
Number of LED's	Neutral (4000K)	White	10 LED's	20 LED's	@100.000h
LED Current: 500mA**	Nominal Flux (lm)*	-	-	4870	70%
	Power Consumption (W)	-	-	31	
LED Current: 600mA**	Nominal Flux (lm)*	-	-	5700	
	Power Consumption (W)	-	-	38	
LED Current: 700mA**	Nominal Flux (lm)*	3270	6540		
	Power Consumption (W)	22	46		

(\*) The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology

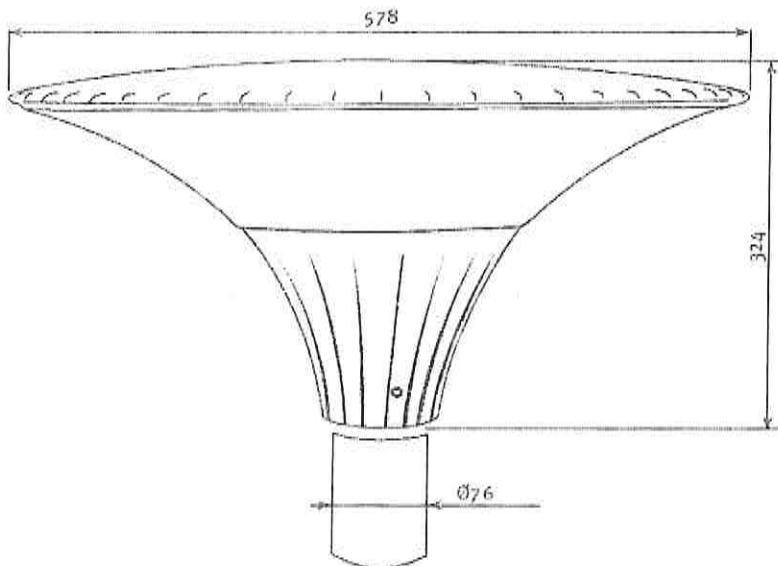
(\*\*) LED Current

85

**Mechanics**

Electronic control Gear	Constant Current Driver IP 66
Materials and finishing	<p><i>Base</i> – High-pressure die-cast marine grade aluminium (EN 1706 AC-44300)</p> <p><i>Diffuser</i> – A clear or opal non-discolouring high impact acrylic injection moulded diffuser. Optional : Polycarbonate</p> <p><i>Top Cover</i> – Acrylonitrile Styrene Acrylate (ASA)</p>
Finish	RAL colours on request
Installation	Pole Mount (ø76mm)
Fixing	6 x ø M6 Grub Screws
Dimensions (W*H)	Ø 578 x 324
Weight (with gear)	4.9kg
Access	Yes
Aerodynamic resistance (CxS):	0.082m <sup>2</sup>

## PROPOSED SECURITY UPGRADES AT LANGEBAAN POLICE STATION: WESTERN CAPE PROVINCE



### Electrical-Characteristics

Line Voltage	230VAC
Mains voltage Tolerance (AC)	198-264VAC
Line frequency	50Hz
Electrical Safety Class (IEC)	Class I or II
Surge protection	Yes - 10kV/10kA
Lighting control	Optional: Miniature Daylight Switch mounted on to base casting

### Power-Supply

Power Factor	$\geq 0.95$
Removable	Yes
Thermal Safety	Yes

### Environment

## PROPOSED SECURITY UPGRADES AT LANGEBAAN POLICE STATION: WESTERN CAPE PROVINCE

Storage temperature	- 40°C to +60°C
Operating temperature (Ta)	- 35°C to + 35°C
Enclosure Tightness	IP 66
Enclosure Mechanical Withstand Impact	IK 08
Enclosure Mechanical Withstand Vibrations	Modified IEC 60068-2-6

- \* Certified Test Standard SANS IEC 60598 -2-3

### 7. LOW VOLTAGE DISTRIBUTION CABLES

Low voltage distribution cables to be supplied and installed shall comply with SANS1507 Specification for low voltage insulated wire, power and multi-core control cables.

The following estimated cable length is to be installed from the Main Distribution Board situated in the Cells to the perimeter lights:

Table 6.1: LV distributor cable length estimate

Description	Cable length
Cable, 600/1000 V, 4mm <sup>2</sup> , 3 core stranded copper conductor, flame retardant, PVC insulated, bedded and sheathed with galvanised steel wire armour.	450m

**NB:** The contractor shall check cable lengths on site and shall order the cables accordingly to ensure that no joints have to be made and that there are no cable off-cuts after the installation of the cables.

### 8. LOW VOLTAGE TERMINATIONS

All low voltage terminations to be supplied and installed, and shall comply with SANS 10198 specification for LV accessories.



## 9. CABLE TRENCHING AND INSTALLATIONS

- The Contractor shall ensure that the cable trenches are excavated to the specified depth and that the cables are laid with the specified distances between the cables (See table below). Where the cables cross other services, the clearances as specified in the relevant section shall be maintained. Where the cables cross other services a 100mm concrete slab shall be installed above the cable at the point of crossing of the two services.

The following are the cable trench widths and depths and spacing between cables as specified in SANS 009.

Table 8.1: Cable trench depths, width and spacing

Cable Type	Depth below final ground level	Typical Trench Dimensions
LV cables	600 mm	450 mm
SL cables	600 mm	450 mm

**NB:** Where larger no's of cables are to be installed the trench width shall be determined by no. of cables and spacing between them.

- Where site constraints dictate it is necessary to install services within common trench, it is imperative that the minimum horizontal separation of 600 mm is maintained between Municipal services and any other services.
- The length of the cable that must be excavated at the time must not exceed 300 m, following which a length of cable must be laid, inspected and the cable trench backfilled before further excavations are carried out (i.e. standardize on the drum length).
- Rocks removed from excavations shall not be used for backfilling.
- Cables shall be laid in accordance with manufacturer's recommendations and SANS 10198.
- Cables shall only be laid in trenches having smooth flat bottom surfaces. Where the surfaces are irregular they shall first be smoothed off before installing the cables.
- Where cables are installed in trenches cut in rock, a 75 mm layer of fine sifted earth must be placed on the bottom of the trench to serve as bedding for the cables. Final depth of the cable shall still be in accordance with the table below.

## PROPOSED SECURITY UPGRADES AT LANGEBAAN POLICE STATION: WESTERN CAPE PROVINCE

- All cables shall be installed in straight lines as far as possible and excessive distortion and weaving in the cable length is not accepted.
- After the cable has been installed it must be covered with a 200 mm layer of well-compacted earth. In the case of a trench cut into rock, this layer is to consist of fine sifted earth.
- The soil shall be removed and adequate bedding soil obtained for backfilling.
- Cables, which have been laid, must be energized as soon as possible to limit the possibility of theft of cables.
- An embossed, yellow-coloured plastic maker tape 150 mm wide by 0.1 mm thick and complying with SANS 1186-1 shall be laid in a continuous strip above all cable at a depth of 150 mm.
- The minimum requirements of SANS 10198 shall be complied with, when backfilling cable trenches. Also, adhere to code of practice.
- Danger tape to be installed 300mm below natural ground level in cable trench.

## 10. TESTING AND COMMISSIONING

- All installed equipment shall be commissioned and tested as per the manufacturer's recommendations. The results of all tests must be recorded and submitted to SAPS Electrical Technician for approval.
- Routine factory tests reports shall accompany all equipment supplied and shall be given to the SAPS Electrical Technician, prior to the equipment being installed and commissioned.
- Prior to handover, on site final test reports as listed in SANS 1029, SANS 10198 and SANS 10142 for all equipment shall be given to the relevant SAPS Electrical Technician.
- Contractor to provide COCs and pressure test certificates to SAPS Electrical Technician prior to energizing of equipments.

## 11. CLEANING OF SITE

- After completion of construction activities, the contractor shall remove all his equipment and site facilities from the site and leave the site in a tidy condition. The cost thereof must be included for in the P & G's.

90

PROPOSED SECURITY UPGRADES AT LANGEBAAN POLICE STATION  
WESTERN CAPE PROVINCE

Item No	Unit	Quantity	Rate	Amount
<b>SECTION 1</b>				
<b><u>PRELIMINARIES</u></b>				
<b><u>BILL NO 1</u></b>				
<b>NOTE</b>				
All prices/rates to be net, excluding Value Added Tax				
<b>General</b>				
i) The agreement is to be the JBCC Series 2000 Principal Building Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee, March 2005				
ii) The preliminaries are to be the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, March 2005 edition and shall be deemed to be incorporated herein				
iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary				
iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading				
v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")				
vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time				
Carried to Collection Summary - Section 1: Preliminaries			R	
Section 1 - Preliminaries				

**PREAMBLES FOR TRADES**

The preambles for trades (2008 edition) as published by the association of the South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained

Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

The contractor prices for all items throughout these bills of must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

**PRICING OF PRELIMINARIES**

Should the contractor select Alternative A in terms of sub-clause B10.3 in the preliminaries and indicated on the Form of Tender[2.5] for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value-Related (V) and Time-Related (T)

Carried to Collection Summary section 1: Preliminaries

R

Section 1 - Preliminaries

SECTION A: PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

1 Definitions and interpretation (clause 1)

F:..... V:..... T:.....

Item

Objective (A2)

2 Offer, acceptance and performance (clause 2)

F:..... V:..... T:.....

Item

Preparation (A3-A14)

3 Documents (clause 3)

Clause 3.1 shall be deemed to be omitted and replaced with the following:

No payment guarantee will be provided by the employer

F:..... V:..... T:.....

Item

4 Design responsibility (clause 4)

F:..... V:..... T:.....

Item

5 Employer's agents (clause 5)

F:..... V:..... T:.....

Item

6 Contractor's site representative (clause 6)

F:..... V:..... T:.....

Item

7 Works risk (clause 8)

F:..... V:..... T:.....

Item

8 Indemnities (clause 9)

F:..... V:..... T:.....

Item

9 General insurances (clause 10)

All insurances are to be taken by the Contractor

F:..... V:..... T:.....

Item

10 Special insurances (clause 11)

F:..... V:..... T:.....

Item

Carried to Collection Summary section 1: Preliminaries

R

Section 1 - Preliminaries

11	Effecting insurance (clause 12)			
	F:..... V:..... T:.....	Item		
12	Assignment (clause 13)			
	F:..... V:..... T:.....	Item		
13	Security (clause 14)			
	F:..... V:..... T:.....	Item		
	<u>Execution (A15-A23)</u>			
14	Preparation for and execution of the works (clause 15)			
	F:..... V:..... T:.....	Item		
15	Site and Access (clause 16)			
	F:..... V:..... T:.....	Item		
16	Contract instructions (clause 17)			
	F:..... V:..... T:.....	Item		
17	Setting out of the works including survey (clause 18)			
	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments			
	F:..... V:..... T:.....	Item		
18	Temporary Works and Plant (clause 19)			
	F:..... V:..... T:.....	Item		
19	Nominated sub-contractors (clause 20)			
	F:..... V:..... T:.....	Item		

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

20 Selected sub-contractors (clause 21)

Notwithstanding the content of this clause, the contractor's attention is drawn to the fact that all the work provided for by means of the inclusion of provisional amounts elsewhere in these bills of quantities, is to be executed and installed in the works during the construction period by selected sub-contractors

The selected sub-contractors shall be chosen, as far as possible, by the principal agent together with the contractor

F:..... V:..... T:.....

Item

21 Employer's direct contractors (clause 22)

F:..... V:..... T:.....

Item

22 Contractor's domestic sub-contractors (Clause 23)

F:..... V:..... T:.....

Item

Completion (A24-A30)

23 Practical completion (clause 24)

F:..... V:..... T:.....

Item

24 Works completion (clause 25)

F:..... V:..... T:.....

Item

25 Final completion (clause 26)

F:..... V:..... T:.....

Item

26 Latent defects liability period (clause 27)

F:..... V:..... T:.....

Item

27 Sectional completion (clause 28)

F:..... V:..... T:.....

Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

95

28	<p>Revision of date of practical completion (clause 29)</p> <p>Clause 29.1.1 shall be deemed to be omitted and replaced by the following:</p> <p>Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calendar month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project</p> <p>It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above</p> <p>F:..... V:..... T:.....</p>	Item			
29	<p>Penalty for non-completion (clause 30)</p> <p>F:..... V:..... T:.....</p> <p><u>Payment (A31 - A35)</u></p>	Item			
30	<p>Interim payment to the contractor (clause 31)</p> <p>Notwithstanding this or any other clause, materials and goods stored off site shall not to be included in the amount authorized for payment</p> <p>Sub-clause 31.9 shall be amended as follows: wording "seven (7) calendar days of the date of issue of payment certificate" be replaced with "twenty one (21) calendar days of the date of issue of tax invoice"</p> <p>The contractor shall attach a tax invoice as prescribed in the Value Added Tax legislation to each payment certificate to the employer for payment. Such tax invoices shall match precisely the amounts included in the payment certificate.</p> <p>Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met</p> <p>F:..... V:..... T:.....</p>	Item			
31	<p>Adjustment to the contract value (clause 32)</p> <p>F:..... V:..... T:.....</p>	Item			
32	<p>Recovery of expense and loss (clause 33)</p> <p>F:..... V:..... T:.....</p>	Item			
Carried to Collection Summary - Section 1: Preliminaries				R	
Section 1 - Preliminaries					



33	Final account and final payment (clause 34)	
	F:..... V:..... T:.....	Item
34	Payment to other parties (clause 35)	
	F:..... V:..... T:.....	Item
	Termination (A36-A39)	
35	Termination by employer - contractor's default (clause 36)	
	F:..... V:..... T:.....	Item
36	Termination by employer - loss and damage (clause 37)	
	F:..... V:..... T:.....	Item
37	Termination by contractor - employer's default (clause 38)	
	F:..... V:..... T:.....	Item
38	Termination - cessation of the works (clause 39)	
	F:..... V:..... T:.....	Item
	Dispute (A40)	
39	Settlement of Disputes (clause 40)	
	F:..... V:..... T:.....	Item
	Contract Agreement (A41)	
40	The schedule: Pre-tender information (clause 42)	
	F:..... V:..... T:.....	Item
	42.1CONTRACTING AND OTHER PARTIES	
	See "Notes to Tenderers" for all the relevant physical and postal addresses, telephone and facsimile numbers	
	42.1.1Employer:Government of the Republic Of South Africa	
	42.1.2Client: South African Police Service Supply Chain Management Postal Address:Private Bag X254 Pretoria 0001	
	Representative of the Employer: Colonel M. Baliso Tel: (012) 349 6069 Fax:	
	Carried to Collection Summary - Section 1: Preliminaries	
	Section 1 - Preliminaries	

R

42.1.3 Principal Agent (1): Programme & Project Management				
Contact Person: Colonel: <b>I. Yzel</b>				
18 De Havilland Crescent				
Acasia Building				
Persoonheid Technopark				
Pretoria				
Tel: (012) 845 8720				
Agent service: Quantity Surveying, Architectural, Civil, Structural, Electrical and Mechanical services				
42.1.4 Agent (1):				
Architect: SAPS				
Agents service:				
42.1.5 Agent (2):				
Structural Engineer: SAPS				
Agents service:				
42.1.6 Agent (3):				
Quantity Surveyor: SAPS				
Agents service:				
42.1.7 Agent (4):				
OHS: SAPS				
Agents service:				
42.1.8 Agent (5):				
Electrical Engineer: SAPS				
Agents service:				
42.1.9 Agent (7):				
Mechanical Engineers: SAPS				
<b>Carried to Collection Summary - Section 1: Preliminaries</b>				
Section 1 - Preliminaries				

R

Agents service:				
42.1.10 Agent (8):				
Not applicable				
42.2 CONTRACT DETAILS				
42.2.1 Works Description:				
The works shall be as described in the "Notes to Tenders"				
42.2.2 Site Description:				
The site shall be as described in the "Notes to Tenderers"				
42.2.3 Work or installations by direct contractors:				
Refer to notes to tenders: Item 2 Scope of contract				
42.2.4 Specific options that are applicable to a State organ only:				
(1) Interest rate legislation:				
N/A				
(2) Lateral support insurance to be effected by the contractor				
N/A				
(3) Payment will be made for materials and goods:				
N/A				
(4) Dispute resolution by litigation:				
N/A				
(5) Extended defects liability period applicable to the following elements:				
Mechanical and Electrical Works (12 months)				
42.2.5 Possession of the site is given on:				
Date to be determined				
42.2.6 Period for the commencement of the works after the contractor takes possession of the site:				
One (1) working day				
<b>Carried to Collection Summary - Section 1: Preliminaries</b>				
Section 1 - Preliminaries				

R

42.2.7 The date for practical completion and the penalty per calendar day for the works as a whole:

Date:

Twelve (12) weeks , exclusive of builder's holidays, after the date of site hand over

Penalty:

Refer to Appendix A: Calculation of penalty

42.2.8 The date for practical completion and the penalty per calendar day for the works in sections:

N/A

42.2.9 The law applicable to this agreement shall be that of:

Republic of south Africa

#### 42.3 INSURANCES

42.3.1 Contract works insurance:

To be effected b: Employer

For the sum of: Tendered amount plus 20% with a

deductable of: to be determined by contractor

Item

42.3.2 Supplementary insurance is required:

Yes

42.3.3 Public Liability Insurance to be effected by contractor:

For the sum of R 5 000 000-00

Item

With a deductible of: to be determined by contractor

42.3.4 Support Insurance to be effected bt the employer

N/A

#### 42.4 DOCUMENTS

41.4.1 Waivers of contractor's lien or right of continuing possession is required:

No

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

42.4.2 Construction document copies to be supplied to the contractor free of charge:

Three (3) copies of each

42.4.3 Bills of quantities drawn up in accordance with:

Standard System of Measuring Building Works (7th edition)

42.4.4 On acceptance of the tender the bills of quantities is to be submitted:

Together with tender document

42.4.5 JBCC Engineering General Conditions are to be included in the documents:

No

42.4.6 The contract value is to be adjusted using CPAP:

Yes

Base month of indexes Tender closing date

42.4.7 Details of changes made to the provision of JBCC standard documentation

Any changes are indicated against the relevant items in this section

#### 42.5 CONTRACT DETAILS

All post-tender information for this section will be determined once tender is awarded

#### 42.6 DOCUMENTS

All post-tender information for this section will be determined once tender is awarded

#### 42.7 DISPUTE RESOLUTION

All post-tender information for this section will be determined once tender is awarded

#### 42.8 SIGNATURES OF THE CONTRACTING PARTIES

All post-tender information for this section will be determined once tender is awarded

Carried to Collection Summary - Section 1: Preliminaries

Section 1 - Preliminaries

R

**SECTION B: PRELIMINARIES**

**Definition and Interpretation (B1)**

41 Definition and interpretation (B1.1 - B1.6.5)

F:..... V:..... T:.....

Item

**Documents (B2)**

42 Checking of documents (B2.1)

Item

These bills of quantities:

(1) contain pages and annexes as indexed, and;

(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances

Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

F:..... V:..... T:.....

Item

43 Provisional bills of quantities (B2.2)

F:..... V:..... T:.....

Item

44 Availability of construction documentation (B2.3)

The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period

F:..... V:..... T:.....

Item

45 Interests of agents (B2.4)

F:..... V:..... T:.....

Item

46 Priced documents (B2.5)

F:..... V:..... T:.....

Item

Carried to Collection Summary - Section 1: Preliminaries

R

Section 1 - Preliminaries

47	Tender submission (B2.6)				
	Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders				
	F:..... V:..... T:.....	Item			
	<b><u>The site (B3)</u></b>				
48	Defined works area (B3.1)				
	F:..... V:..... T:.....	Item			
49	Geotechnical investigation (B3.2)				
	F:..... V:..... T:.....	Item			
50	Inspection of the site (B3.3)				
	No claims for extras arising from the contractor having failed to comply with this clause will be entertained				
	F:..... V:..... T:.....	Item			
51	Existing premises occupied (B3.4)				
	F:..... V:..... T:.....	Item			
52	Previous work - dimensional accuracy (B3.5)				
	Work executed under a previous contract and the extent thereof will be pointed out to the contractor by the principal agent on handing over of the site				
	F:..... V:..... T:.....	Item			
53	Previous work - defects (B3.6)				
	F:..... V:..... T:.....	Item			
54	Services - known (B3.7)				
	F:..... V:..... T:.....	Item			
55	Services - unknown (B3.8)				
	F:..... V:..... T:.....	Item			
56	Protection of trees, etc (B3.9)				
	F:..... V:..... T:.....	Item			
	<b>Carried to Collection Summary - Section 1: Preliminaries</b>				R
	Section 1 - Preliminaries				

57	Articles of value (B3.10)	F:..... V:..... T:.....	Item		
58	Inspection of adjoining properties, etc (B3.11)	F:..... V:..... T:.....	Item		
	<b><u>Management of contract (B4)</u></b>				
59	Management of the works (B4.1)	F:..... V:..... T:.....	Item		
60	Programming for the works (B4.2)	F:..... V:..... T:.....	Item		
61	Progress meetings (B4.3)	F:..... V:..... T:.....	Item		
62	Technical meetings (B4.4)	F:..... V:..... T:.....	Item		
63	Labour and plant records (B4.5)	F:..... V:..... T:.....	Item		
	<b><u>Samples and shop drawings (B5)</u></b>				
64	Samples of materials (B5.1)	F:..... V:..... T:.....	Item		
65	Workmanship samples (B5.2)	F:..... V:..... T:.....			
66	Shop drawings (B5.3)	F:..... V:..... T:.....	Item		
67	Compliance with manufacturer's instructions (B5.4)	F:..... V:..... T:.....	Item		
	<b><u>Temporary works and plant (B6)</u></b>				
68	Deposits and fees (B6.1)	F:..... V:..... T:.....	Item		
	<b>Carried to Collection Summary - Section 1: Preliminaries</b>				R
	Section 1 - Preliminaries				



69	Enclosure of the works (B6.2)			
	F:..... V:..... T:.....	Item		
70	Advertising (B6.3)			
	F:..... V:..... T:.....	Item		
71	Plant, equipment, sheds and offices (B6.4)			
	F:..... V:..... T:.....	Item		
72	Main notice board (B6.5)			
	F:..... V:..... T:.....	Item		
73	Subcontractors notice board (B6.6)			
	F:..... V:..... T:.....	Item		
	<b><u>Temporary services (B7)</u></b>			
74	Location (B7.1)			
	F:..... V:..... T:.....	Item		
75	Water (B7.2)			
	F:..... V:..... T:.....	Item		
76	Electricity (B7.3)			
	F:..... V:..... T:.....	Item		
77	Telecommunication equipment (B7.4)			
	F:..... V:..... T:.....	Item		
78	Ablution facilities (B7.5)			
	F:..... V:..... T:.....	Item		
	<b><u>Prime cost amounts (B8)</u></b>			
79	Responsibility for prime cost amounts (B8.1)			
	F:..... V:..... T:.....	Item		
	<b><u>Attendance on nominated and selected subcontractors (B9)</u></b>			
80	General attendance (B9.1)			
	F:..... V:..... T:.....	Item		
81	Special attendance (B9.2)			
	F:..... V:..... T:.....	Item		
	<b>Carried to Collection Summary - Section 1: Preliminaries</b>			R
	Section 1 - Preliminaries			

82	Commissioning - Fuel, water and power (B9.3)	
	F:..... V:..... T:.....	Item
	<b><u>Financial aspects (B10)</u></b>	
83	Statutory taxes, duties and levies (B10.1)	
	Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)	
	F:..... V:..... T:.....	Item
84	Payment of preliminaries (B10.2)	
	F:..... V:..... T:.....	Item
85	Adjustment of preliminaries (B10.3)	
	F:..... V:..... T:.....	Item
86	Payment certificate cash flow (B10.4)	
	F:..... V:..... T:.....	Item
	<b><u>General (B11)</u></b>	
87	Protection of works (B11.1)	
	F:..... V:..... T:.....	Item
88	Protection/isolation of existing/sectionally occupied work (B11.2)	
	F:..... V:..... T:.....	Item
89	Site security (B11.3)	
	There is a high theft rate in the area and on site. The contractor to	
	F:..... V:..... T:.....	Item
90	Notice before covering work (B11.4)	
	F:..... V:..... T:.....	Item
91	Disturbance (B11.5)	
	F:..... V:..... T:.....	Item
92	Environmental disturbance (B11.6)	
	F:..... V:..... T:.....	Item
93	Works cleaning and clearing (B11.7)	
	F:..... V:..... T:.....	Item

**Carried to Collection Summary - Section 1: Preliminaries**

R

Section 1 - Preliminaries

94	Vermin (B11.8)			
	F:..... V:..... T:.....	Item		
95	Overhand work (B11.9)			
	F:..... V:..... T:.....	Item		
96	Instruction manuals and guarantees (B11.10)			
	F:..... V:..... T:.....	Item		
97	As built information (B11.11)			
	F:..... V:..... T:.....	Item		
98	Tenant installations (B11.12)			
	F:..... V:..... T:.....	Item		
	<b><u>Schedule of variables (B12)</u></b>			
99	Pre-tender information (B12.1)			
	F:..... V:..... T:.....	Item		
	12.1.1Provisional bills of quantities (B2.2)			
	The quantiles are provisional:			
	12.1.2Availability of construction documentation (B2.3)			
	Construction documentation is not complete:			
	No			
	12.1.3Interest of agents (B2.4)			
	No			
	12.1.4Defined works area (B3.1)			
	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site			
	12.1.5Geotechnical investigation (B3.2)			
	N/A			
	12.1.6Existing premises occupied (B3.4)			
	Yes			
	12.1.7 Previous work - Dimensional accuracy (B3.5)			
	No specific information			
	<b>Carried to Collection Summary - Section 1: Preliminaries</b>			
	Section 1 - Preliminaries			

R