

## BILL OF QUANTITIES

### Community Nursery Tunnels — Grassland National Park

#### PREAMBLE

1. This Bill of Quantities is to be read in conjunction with all drawings listed herein and the project specification. Contractors shall be deemed to have examined all drawings, visited the site, and made themselves fully acquainted with all conditions affecting the execution of the works before submitting their tender.
2. All Lump Sum items are to be priced to include full supply of materials, labour, plant, scaffolding, equipment, transport, off-loading, hoisting, fixing, and all other obligations necessary for the complete and proper execution of the works as described and depicted on the drawings.
3. The Preliminary and General (P&G) item covers all site establishment, supervision, safety, insurance, and contractual obligations for the full duration of the project.
4. Prices shall remain firm for the duration of the contract unless otherwise agreed in writing.
5. All works to comply with the National Building Regulations, SANS standards, and OHS Act (Act 85 of 1993) and relevant regulations.

Item	Description	Unit	Qty	Rate (R)	Amount (R)
<b>A</b>	<b>PRELIMINARIES AND GENERAL (P&amp;G)</b>				
<b>A.1</b>	<b>PRELIMINARY AND GENERAL (P&amp;G) — LUMP SUM</b>  Allow for all Preliminary and General costs associated with the complete construction of the Community Nursery Tunnels as described herein. The Lump Sum shall include but not be limited to the following: <ul style="list-style-type: none"> <li>• Contractor's establishment, mobilisation and demobilisation to/from site</li> <li>• Setting up and maintaining site offices, ablution facilities, storage, and security</li> <li>• All temporary site signage and hoarding as required</li> <li>• Site supervision, management, and administration for the full duration of the works</li> <li>• Site safety officer, safety plans, risk assessments, and method statements</li> <li>• Personal Protective Equipment (PPE) for all site personnel</li> <li>• All temporary access roads and working platforms as required</li> <li>• Temporary fencing and securing of the construction area</li> <li>• Insurance, bonds, guarantees, and public liability cover as specified</li> <li>• Health and Safety (OHS Act) compliance, file, and related documentation</li> <li>• Quality assurance and control throughout the project</li> <li>• Liaison with the SANParks Representative / Engineer</li> <li>• Progress photographs and record keeping</li> </ul>	<b>SUM</b>	1		

**SOUTH AFRICAN NATIONAL PARKS — TECHNICAL SERVICES**

**PROJECT: COMMUNITY NURSERY TUNNELS**

CLIENT: GRASSLAND NATIONAL PARK

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Date: 19 March 2026

Item	Description	Unit	Qty	Rate (R)	Amount (R)
	<ul style="list-style-type: none"> <li>Attendance at site meetings</li> <li>Provision of as-built drawings upon completion</li> <li>Cleaning of site and removal of all debris and waste upon completion</li> <li>Any other Preliminary and General obligations not specifically listed but implied by the nature of the works</li> </ul>				
<b>Sub-Total Section A — Carry to Summary</b>					<b>R _____</b>
<b>B</b>	<b>COMMUNITY NURSERY PLASTIC TUNNEL FOR VEGETABLE SEEDLINGS (5m x 5m)</b> <i>Drawing Nos. GRASS-7/4/20/7/1/1/1 &amp; GRASS-7/4/20/7/1/1/2</i>				
<b>B.1</b>	<p><b>SUPPLY AND ERECT PLASTIC TUNNEL FOR VEGETABLE SEEDLINGS — COMPLETE — LUMP SUM</b></p> <p>Supply and erect one (1) complete 5m x 5m Community Nursery Plastic Tunnel for Vegetable Seedlings including all materials, labour, plant, and equipment as shown on drawings GRASS-7/4/20/7/1/1/1 and GRASS-7/4/20/7/1/1/2. The Lump Sum shall include but not be limited to the following:</p> <p><b>STRUCTURE &amp; FOUNDATIONS:</b></p> <ul style="list-style-type: none"> <li>Excavation for and construction of all concrete footings (20MPa) on 50mm stone layer as specified; pole ends to have 10mm reinforcing rods through pole and concrete in both directions</li> <li>450x450x600mm and 600x600x750mm concrete footings at positions shown on drawings</li> <li>MIN. 100mmØ CCA treated H4 pine upright poles (SABS approved)</li> <li>4mmØ stay wires at 45° to the horizontal at all corners</li> <li>750mm long Galv. I-section standard anchors</li> </ul> <p><b>FRAME &amp; CROSS-WIRES:</b></p> <ul style="list-style-type: none"> <li>All 2.5mmØ cross wires and roof ridge wires as shown on drawings</li> <li>100-119mmØ CCA treated poles (frame and gum poles)</li> <li>All associated galvanised bolts, nuts, and fixings</li> </ul> <p><b>CLADDING:</b></p> <ul style="list-style-type: none"> <li>150–200 micron UV-stabilised polyethylene film sheeting to top and all sides to ground level</li> <li>600x600mm manual roll-up side vents with insect netting and treated timber handles</li> </ul> <p><b>DOOR:</b></p> <ul style="list-style-type: none"> <li>Standard 1612x2032mm FLB double swing timber door covered with UV plastic sheeting</li> </ul> <p><b>INTERNAL LAYOUT:</b></p> <ul style="list-style-type: none"> <li>Raised beds (200-300mm high) as per plan layout drawing</li> <li>All bed areas to be lined with 200 micron plastic sheeting or similar approved</li> <li>All paths between raised beds as shown</li> </ul>	<b>SUM</b>	<b>1</b>		

Item	Description	Unit	Qty	Rate (R)	Amount (R)
<b>Sub-Total Section B — Carry to Summary</b>					R _____
<b>C</b>	<b>COMMUNITY NURSERY VEGETABLE SHADE TUNNEL (12m x 8m)</b> <i>Drawing Nos. GRASS-7/4/20/7/1/2/2 &amp; GRASS-7/4/20/7/1/2/3</i>				
<b>C.1</b>	<p><b>SUPPLY AND ERECT VEGETABLE SHADE TUNNEL — COMPLETE — LUMP SUM</b></p> <p>Supply and erect one (1) complete 12m x 8m Community Nursery Vegetable Shade Tunnel including all materials, labour, plant, and equipment as shown on drawings GRASS-7/4/20/7/1/2/2 and GRASS-7/4/20/7/1/2/3. The Lump Sum shall include but not be limited to the following:</p> <p><b>STRUCTURE &amp; FOUNDATIONS:</b></p> <ul style="list-style-type: none"> <li>• Excavation and construction of 600x600x750mm deep concrete footings (20MPa) on 50mm stone layer; pole ends to have 10mm reinforcing rods through pole and concrete</li> <li>• 450x450x600mm corner footings as shown</li> <li>• MIN. 100mmØ CCA treated H4 pine upright poles (SABS approved)</li> <li>• 75mmØ CCA treated cross-bracing poles at all 4 corners of structure</li> <li>• 4mmØ stay wires at 45° to the horizontal</li> <li>• 750mm long Galv. I-section standard anchors</li> </ul> <p><b>ROOF &amp; FRAMING:</b></p> <ul style="list-style-type: none"> <li>• 75mmØ roof poles and ridge; 100-119mmØ CCA treated poles throughout</li> <li>• 100x100mm wooden spacers as shown on sections</li> <li>• 12mmØ galvanised bolts and nuts at all connections</li> </ul> <p><b>CLADDING:</b></p> <ul style="list-style-type: none"> <li>• 40-50% green knitted HDPE shade cloth (UV-stabilised) with reinforced edging and eyelets at 1m c/c for rope fastening; shade cloth secured with UV-stabilised cable ties</li> <li>• 600x600mm manual roll-up side vents with insect netting and treated timber handles</li> </ul> <p><b>DOOR:</b></p> <ul style="list-style-type: none"> <li>• Standard 1511x2032mm FLB double swing timber door with insect mesh</li> </ul> <p><b>INTERNAL:</b></p> <ul style="list-style-type: none"> <li>• 200-300mm raised beds or seedling trays on benches as per drawings</li> <li>• All bed areas lined with 200 micron plastic sheeting or similar approved</li> </ul>	<b>SUM</b>	1		
<b>Sub-Total Section C — Carry to Summary</b>					R _____
<b>D</b>	<b>COMMUNITY NURSERY MEDICINAL PLANTS SHADE TUNNEL (10m x 5m)</b> <i>Drawing Nos. GRASS-7/4/20/7/1/3/1 &amp; GRASS-7/4/20/7/1/3/2</i>				

**SOUTH AFRICAN NATIONAL PARKS — TECHNICAL SERVICES**

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D.1	<p><b>SUPPLY AND ERECT MEDICINAL PLANTS SHADE TUNNEL — COMPLETE — LUMP SUM</b></p> <p>Supply and erect one (1) complete 10m x 5m Community Nursery Medicinal Plants Shade Tunnel including all materials, labour, plant, and equipment as shown on drawings GRASS-7/4/20/7/1/3/1 and GRASS-7/4/20/7/1/3/2. The Lump Sum shall include but not be limited to the following:</p> <p><b>STRUCTURE &amp; FOUNDATIONS:</b></p> <ul style="list-style-type: none"> <li>• Excavation and construction of all concrete footings (20MPa) on 50mm stone layer as specified; pole ends to have 10mm reinforcing rods through pole and concrete</li> <li>• 450x450x600mm and 600x600x750mm concrete footings at positions shown</li> <li>• MIN. 100mmØ CCA treated H4 pine upright poles (SABS approved)</li> <li>• 75mmØ CCA treated cross-bracing poles at all 4 corners</li> <li>• 4mmØ stay wires at 45° to the horizontal at all corners</li> <li>• 750mm long Galv. I-section standard anchors</li> </ul> <p><b>FRAME:</b></p> <ul style="list-style-type: none"> <li>• 75mmØ CCA treated roof poles, support beam poles, and cross-bracing poles throughout</li> <li>• 100-119mmØ CCA treated gum poles as shown</li> <li>• 12mmØ galvanised bolts and nuts at all connections</li> </ul> <p><b>CLADDING:</b></p> <ul style="list-style-type: none"> <li>• 50-60% black knitted HDPE shade cloth (UV-stabilised) with reinforced edging and eyelets at 1m c/c for rope fastening; shade cloth secured with UV-stabilised cable ties</li> <li>• 600x600mm manual roll-up side vents with insect netting and treated timber handles</li> </ul> <p><b>DOOR:</b></p> <ul style="list-style-type: none"> <li>• Standard 1511x2032mm FLB double swing timber door with insect mesh</li> </ul> <p><b>INTERNAL:</b></p> <ul style="list-style-type: none"> <li>• Raised beds (200-300mm high) as per raised beds layout drawing (Scale 1:75)</li> <li>• All bed areas lined with 200 micron plastic sheeting or similar approved</li> </ul>	SUM	1		
<b>Sub-Total Section D — Carry to Summary</b>					R _____
<b>E</b>	<b>FASTENING DETAILS — ALL STRUCTURES</b> <i>Drawing No. GRASS-7/4/20/7/1/1/3</i>				
E.1	<b>ALL FASTENING AND ANCHORING DETAILS — INCLUDED IN SECTIONS B, C &amp; D ABOVE</b>	INCL	-		

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	<p>The following fastening details as shown on drawing GRASS-7/4/20/7/1/1/3 shall be included in the relevant structure lump sums above (Sections B, C &amp; D) and are not to be priced separately:</p> <ul style="list-style-type: none"> <li>• Pole anchoring: 0.47 inch reinforced steel, eye bolts, stay wire pole connections at 45° at point of horizontal stress (3.28ft / 1m embedment)</li> <li>• Netting anchorage: 0.15 inch Galv. wire, pipe, steel spike to lock wind, concrete anchor base</li> <li>• Shade cloth bottom edge: Galv. steel wire laced through eyelets, steel wire edge detail</li> <li>• Pole staple and edge wire connections: galv. steel wire joined every 1 foot</li> <li>• Base connections: Lacing twine, old plastic water pipe, and Galv. wire at pole base</li> </ul> <p>NOTE: All fastening details to be read in conjunction with respective structure drawings.</p>				
<b>SUMMARY OF BILL OF QUANTITIES</b>					
Section A — Preliminaries and General (P&G)					
Section B — Community Nursery Plastic Tunnel for Vegetable Seedlings (5m x 5m)					
Section C — Community Nursery Vegetable Shade Tunnel (12m x 8m)					
Section D — Community Nursery Medicinal Plants Shade Tunnel (10m x 5m)					
<b>TOTAL (Excl. VAT)</b>					<b>R</b> _____
<b>VAT @ 15%</b>					<b>R</b> _____
<b>TENDER TOTAL (Incl. VAT)</b>					<b>R</b> _____

**CONTRACTOR'S DECLARATION**

I/We the undersigned hereby confirm that we have read and understood all drawings, specifications, and conditions, and that the prices submitted above are firm for the duration of the contract.

Company Name: \_\_\_\_\_ Registration No: \_\_\_\_\_

Authorised Signatory: \_\_\_\_\_ Date: \_\_\_\_\_