

	<b>SCHEDULE OF QUANTITIES</b>	<b>CONTRACT No.:</b>		<b>SECTION No.:</b>	<b>PAGE 1</b>
	FOR THE CONSTRUCTION OF TSHIKOTA CRU's	<b>B02/2021-22FY</b>		<b>A1</b>	
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
<b>A1</b>	<b>PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS</b>				
<b>1.1</b>	<b>Contractual Requirements:</b>				
1.1.1	Fixed charge contractual requirements.	Sum	1.00		
1.1.2	Value related contractual requirements.	Sum	1.00		
<b>1.2</b>	<b>Facilities for Engineer:</b>				
1.2.1	Furnished office - 1 No.	No	1.00		
1.2.2	Name boards	Sum	2.00		
1.2.3	Provision of survey equipment.	Sum			
<b>1.3</b>	<b>Facilities for Contractor:</b>				
1.3.1	Offices and storage sheds	Sum	1.00		
1.3.2	Workshops	Sum			
1.3.3	Laboratories	Sum			
1.3.4	Living accommodation	Sum	1.00		
1.3.5	Ablution and latrine facilities	Sum	1.00		
1.3.6	Tools and equipment	Sum	1.00		
1.3.7	Water supplies, electric power and communications	Sum	1.00		
1.3.8	Dealing with water	Sum			
1.3.9	Access	Sum			
1.3.10	Plant	Sum	1.00		
1.3.11	Materials on site storage and protection.	Sum	1.00		
1.3.12	Accommodation of traffic.	Sum			
<b>1.4</b>	<b>Removal of Site Establishment:</b>	Sum	1.00		
<b>1.5</b>	<b>Occupational H&amp;S</b>				
1.5.1	Provision of Health and Safety	Sum	1.00		
<b>1.6</b>	<b>CPAP</b>	%		10.00	
	<b>PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS(carried to summary schedule of quantities Page 96)</b>				

	<b>SCHEDULE OF QUANTITIES</b>	CONTRACT No.:		SECTION No.:	PAGE 2
	FOR THE CONSTRUCTION OF TSHIKOTA CRU's	B02/2021-22FY		A2	
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
<b>0</b>	<b>PRELIMINARY AND GENERAL - TIME RELATED OBLIGATIONS</b>				
<b>2.1</b>	<b>Contractual Requirements:</b>				
2.1.1	Time related contractual requirements.	Month	12.00		
<b>2.2</b>	<b>Facilities for Engineer:</b>				
2.2.1	Furnished office - 1 No.	Month	12.00		
2.2.2	Survey assistants and material.	Month			
<b>2.3</b>	<b>Facilities for Contractor:</b>				
2.3.1	Offices and storage sheds.	Month	12.00		
2.3.2	Workshops.	Month			
2.3.3	Laboratories.	Month			
2.3.4	Living accommodation.	Month	12.00		
2.3.5	Ablution and latrine facilities.	Month	12.00		
2.3.6	Tools and equipment.	Month	12.00		
2.3.7	Water supplies, electric power and communications.	Month	12.00		
2.3.8	Dealing with water.	Month			
2.3.9	Access.	Month			
2.3.10	Plant.	Month	12.00		
<b>2.4</b>	<b>Supervision for Duration of the Contract:</b>	Month	12.00		
<b>2.7</b>	<b>Environmental Management:</b>	Month	12.00		
<b>2.8</b>	<b>CPAP</b>	%		10.00	
	<b>PRELIMINARY AND GENERAL - TIME RELATED OBLIGATIONS (carried to summary schedule of quantities Page 96)</b>				

	<b>SCHEDULE OF QUANTITIES</b>	<b>CONTRACT No.:</b>		<b>SECTION No.:</b>	<b>PAGE 3</b>
	FOR THE CONSTRUCTION OF TSHIKOTA CRU's	<b>B02/2021-22FY</b>		<b>A3</b>	
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
<b>0</b>	<b>PRELIMINARY AND GENERAL - PROVISIONAL SUMS</b>				
<b>3.1</b>	<b>Community Liaison Officer:</b>				
3.1.1	Provision for the employment of CLO.	Prov.Sum	1.00	234,000.00	234,000.00
3.1.2	Overheads, charges and profit on item 3.1.1.	%	234,000.00		0.00
<b>3.3</b>	<b>Training:</b>				
3.3.1	Provision for training.	Prov. Sum	1.00	270,000.00	270,000.00
3.3.2	Overheads, charges and profit on item 3.3.1.	%	270,000.00		
<b>3.4</b>	<b>Relocation/Protection of Existing Services:</b>				
3.4.1	Provision for relocation/protection of existing services.	Prov. Sum	1.00	300,000.00	300,000.00
3.4.2	Overheads, charges and profit on item 3.4.1.	%	300,000.00		
<b>3.5</b>	<b>Routine Tests required by Engineer:</b>				
3.5.1	Provision for routine tests.	Prov. Sum	1.00	90,000.00	90,000.00
3.5.2	Overheads, charges and profit on item 3.5.1.	%	90,000.00		
<b>3.6</b>	<b>Occupational Health and Safety Audits:</b>				
3.6.1	Provision for Occupational Health and Safety audits on site.	Prov. Sum	1.00	540,000.00	540,000.00
3.6.2	Overheads, charges and profit on item 3.6.1.	%	540,000.00		
<b>3.7</b>	<b>Student Training</b>				
3.7.1	Provision for Student in Built Environment Training	Prov.Sum	1.00	270,000.00	270,000.00
3.7.2	Overheads, charges and profit on item 3.6.1.	%	270,000.00		
<b>3.8</b>	<b>CPAP</b>	%		10.00	
	<b>PRELIMINARY AND GENERAL - PROVISIONAL SUMS (carried to summary schedule of quantities Page 96)</b>				

	<b>SCHEDULE OF QUANTITIES</b>	CONTRACT No.:		SECTION No.	PAGE 4
	FOR THE CONSTRUCTION OF TSHIKOTA CRU's	B02/2021-22FY		A4	
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
<b>0</b>	<b>PRELIMINARY AND GENERAL - DAYWORKS</b>				
<b>4.1</b>	<b>Labour - Normal Working Hours: [Provisional]</b>				
4,1,1	Skilled Labour (Artisan).	hr	48.00		Rate Only
4,1,2	Semi-skilled Labour.	hr	48.00		Rate Only
4,1,3	Unskilled Labour.	hr	48.00		Rate Only
4,1,4	Foreman.	hr	48.00		Rate Only
4,1,5	Extra-over rate for items 5.1.1 to 5.1.4 for work during non working hours.	hr	50.00		Rate Only
<b>4.2</b>	<b>Materials: [Provisional]</b>				
4,2,1	Allowance for Materials used under Dayworks.	Prov.Sum	1.00	300,000.00	300,000.00
4,2,3	Overheads, Handling and all Charges on Item 5.2.1.	%	300,000.00		
<b>4.3</b>	<b>Plant - Heavy Equipment: [Provisional]</b>				
4,3,1	Excavator - Size Cat 225.	hr			Rate Only
4,3,2	Excavator - TLB.	hr			Rate Only
4,3,3	Grader 140G or similar.	hr			Rate Only
4,3,4	Front end loader - bucket capacity $\leq$ 1.5 m3.	hr			Rate Only
4,3,5	Front end loader - bucket capacity $\leq$ 1.5 m3.	hr			Rate Only
4,3,6	Tip truck - 5 m3 capacity.	hr			Rate Only
4,3,7	Tip truck - 10 m3 capacity.	hr			Rate Only
4,3,8	Vibratory compaction roller - 13.5 ton.	hr			Rate Only
	Transport cost per any unit of plant to deliver to site and remove from site for items 5.3.1 to 5.3.8	Sum			Rate Only
<b>4.4</b>	<b>Plant - Small Equipment: [Provisional]</b>				
4,4,1	Pedestrian roller - BW90 or similar.	hr			Rate Only
4,4,2	Vibratory plate compactor.	hr			Rate Only
4,4,3	Vibratory rammer.	hr			Rate Only
<b>4.5</b>	<b>CPAP</b>	%		10.00	
	<b>PRELIMINARY AND GENERAL - DAYWORKS (carried to summary schedule of quantities Page 96)</b>				

	<b>SCHEDULE OF QUANTITIES</b>	<b>CONTRACT No.</b>		<b>SECTION No.</b>	<b>PAGE 5</b>
	For the Demolition of Tshikota Hostels	<b>B02/2021-22FY</b>		1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>Section 1</b>				
	<b>BILL NO. 1</b>				
	<b>DEMOLITIONS</b>				
	<b>NOTE:</b>				
	Tenderers are advised to study the moded Preambles for Trades				
	before pricing this bill.				
	Where reference is made to trade names in these Bills of Quantities,				
	it shall be taken to read or other equal approved "				-
	Unless otherwise stated herein,all this bill shall be deemed				
	otherwise stated herein ,all items in this bill shall be deemed				
	to fall into Work Group No ,102 for CPAP formula purposes				
	<b>SUPPLEMENTARY PREAMBLES</b>				
	<b>NOTE:</b>				
	The contarctor is specifically requested to visit the site and				
	ascertain for himself the items of Demolition described hereunder				-
	before pricing.				
	In taking down and removing existing work the utmost care shall				
	be observed to prevent any structural or other damage to				
	remaining portions of the building .				
	Special care shall be exercised during the progress of the work				
	to ensure that any electrical installations ,water supply pipes				
	telephone and other services which may be encountered are				
	not interfered with and notice shall be given to the Principal Agent				
	if any disconnection or alterations become necessary .				
	The contractor shall take all precautions necessary to prevent any				
	nuisance from dust whilst carrying out the work.				
	<b>Carried to Collection</b>				-

	SCHEDULE OF QUANTITIES	CONTRACT No.		SECTION No.	PAGE 6
	For the Demolition of Tshikota Hostels	B02/2021-22FY		1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	REMOVAL OF EXISTING WORK				
	Breaking up and removing unreinforced concrete				
1	Floors				
	Carefully hack -up 80mm floor screed,dis,dispose of debris .	m2	2560		
	Carefully hack -up skirting ,cart away debris and dispose off site.	m	5600		
	Concrete Plinths				
2	Hack-up all concrete plinths around the cupboard units and other areas	m3	156		
	Steps				
3	Hack -up and remove steps at front of the door.	m3	75		
	sills,etc				
4	1500mm x 1500mm window frame from one brick wall	No	45		
5	650mm x 550mm window frame from one brick wall	No	25		
6	580mm x 670mm window frame	No	24		
7	813mm x 2013mm high door frame	No	52		
8	1950mm x1800mm high cupboard door framess	No	13		
	Carried to Collection				

	SCHEDULE OF QUANTITIES	CONTRACT No.		SECTION No.	PAGE 7
	For the Demolition of Tshikota Hostels	B02/2021-22FY		1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Taking out and removing gates				
9	Security gates 4500 x 2250mm high	No	2		
	Taking out Work top and its Pillars				
10	3500 x 650mm x300mm thick	No	15		
	away				
11	PVC pipes buried in the ground	No	185		
12	Remove a disconnected geyser	No	1		
	Taking out the electrical DB and and all electrical cables				
13	Take out one DB	No	1		
	Removing Loose purlins and loose timber				
14	Remove loose hanging timber	Item	1		
	Remove loose hanging sheets				
15	Remove loose hanging sheets	Item	1		
	Carried to Collection				

	<b>SCHEDULE OF QUANTITIES</b>	CONTRACT No.		SECTION No.	<b>PAGE 8</b>
	For the Demolition of Tshikota Hostels	B02/2021-22FY		1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>Concrete Aprons</b>				
16	Hake -up and removed concrete aprons around the buildings	m2	721		
	<b>Breaking Brick walls</b>				
17	Demolish brick walls both one brick wall and half brick wall	m2	2308		
	<b>Section 2</b>				
	<b>SITE CLEARING</b>				
18	Grub and clear site of all grass,shrubs and trees	ha	2.40		
	<b>OVERHAUL</b>				
19	Remove and dispose rubbbles from site to an allocated dumping site				
	Overhaul in excess of the free-haul of 5.0 km.	m3/km	1		
	<b>Carried to Collection</b>				

	<b>SCHEDULE OF QUANTITIES</b>	CONTRACT No.		SECTION No.	<b>PAGE 9</b>
	For the Demolition of Tshikota Hostels	<b>B02/2021-22FY</b>		1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SUMMARY FOR DEMOLITIONS</b>				
	<b>COLLECTION</b>				
	Total BROUGHT FORWARD from Page 5				
	Total BROUGHT FORWARD from Page 6				
	Total BROUGHT FORWARD from Page 7				
	Total BROUGHT FORWARD from Page 8				
	<b>Carried to Summary of schedule of quantities Page 96</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 10
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>TYPE A</b>				
	<b>2 Bed Double Storey</b>				
	<b>SECTION NO. 1</b>				
	<b>EXTERNAL WORKS</b>				
	<b>BILL NO. 1</b>				
	<b>SITE CLEARANCE ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Summplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.104) unless otherwise stated				
	<b>SITE CLEARANCE ETC</b>				
	<b>Site clearance:</b>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, including grubbing up roots, filling up holes and compacting to 90% MOD ASSHTO density	m2	2250		-
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m	507		-
	<b>REMOVAL OF TREES ETC</b>				
	<b>Taking out and removing, grubbing up roots and filling in holes</b>				
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2		-
4	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	2		-
	<b>Cutting down and removing, grubbing up roots and filling in holes</b>				
5	Hedge exceeding 2m and not exceeding 3m high	m			
6	Tree exceeding 200mm and not exceeding 500mm girth	No			
7	Tree exceeding 500mm and not exceeding 1000mm girth	No			
8	Tree exceeding 1000mm and not exceeding 1500mm girth	No			
9	Tree exceeding 1500mm and not exceeding 2000mm girth	No			
	<b>Carried to Summary</b>				-

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 11
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>BUILDING WORKS</b>				
	<b>BILL No. 2</b>				
	<b>EARTHWORKS (PROVISIONAL)</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said				
	Model Preambles for Trades or Sumplimentary Preambles to Model Preambles				
	will be granted				
	<b>EXCAVATION, FILLING, ETC</b>				
	<b>EXCAVATION, FILLING, ETC OTHER THAN BULK</b>				
	<b>Excavation in earth not exceeding 2m deep</b>				
10	Reduced levels under floors	m3			
11	Trenches	m3	50		-
	<b>Extra over trench and hole excavations in earth for excavation in</b>				
12	Soft rock	m3	2		-
13	Hard rock	m3	1		-
	<b>Balance brought down</b>				-

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 12
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>Balance brought forward</b>				-
	<b>Extra over all excavations for carting away</b>				
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	km/m <sup>3</sup>	25		-
	<b>Risk of collapse of excavations</b>				
15	Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup>	30		-
16	Sides of trench and hole excavations exceeding 1,5m deep	m <sup>2</sup>			
	<b>Keeping excavations free of water</b>				
17	Allow for keeping all excavations free of water and mud	Item	1		-
	<b>FILLING ETC</b>				
	<b>G5 filling supplied by the contractor compacted to 98% Mod AASHTO density</b>				
18	Under floors, steps, pavings etc	m <sup>3</sup>	18		-
	Prescribed density tests on filling				
19	"Modified AASHTO Density" test	No	6		-
	<b>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</b>				
20	Over site	m <sup>3</sup>			
21	Under floors, steps, pavings, etc	m <sup>3</sup>			
22	Backfilling to trenches, holes, etc	m <sup>3</sup>			
	<b>Compaction of surfaces</b>				
23	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m <sup>2</sup>			
	<b>Prescribed density tests on filling</b>				
24	"Modified AASHTO Density" test	No			
	<b>SOIL POISONING</b>				
	<b>Soil insecticide in accordance with SANS 5859</b>				
25	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m <sup>2</sup>	125		-
26	To bottoms and sides of trenches etc	m <sup>2</sup>	212		-
	<b>Carried to Summary</b>				-

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 13
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL No. 2</b>				
	<b>CONCRETE, FORMWORK AND REINFORCEMENT</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	<b>CONCRETE</b>				
	(CPAP Work Group No. 110)				
	<b>SUBSTRUCTURE</b>				
	<b>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b>				
	15MPa/20mm concrete				
27	Surface blinding under footings and bases	m3			
	<b>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b>				
	30MPa/19mm concrete				
28	Foundations	m3	50		-
29	Surface beds cast in panels on waterproofing (measured elsewhere)	m3	75		-
	<b>REINFORCED CONCRETE</b>				
	30MPa/20mm concrete				
30	Slabs, including beams and inverted beams	m3			
31	Stairs, including landings, beams and inverted beams	m3			
32	Columns	m3			
	<b>TEST CUBES</b>				
33	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5		-
	<b>Balance brought down</b>				-

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 14
For the Construction of Tshikota CRUs		B13/2020-21FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				-
	<b>CONCRETE SUNDRIES</b>				
	Finishing top surfaces of concrete smooth with a wood float/steel trowel				
34	Surface beds, slabs, etc	m2			
	Finishing top surfaces of concrete smooth with a power float				
35	Surface beds, slabs, etc	m2			
	<b>Core Drill</b>				
36	Core drill through 250mm thick reinforced concrete slab, 100mm diameter.	No			
	<b>FORMWORK</b>				
	<b>ROUGH FORMWORK (DEGREE OF ACCURACY III)</b>				
	(CPAP Work Group No. 111)				
	<b>Rough formwork to sides</b>				
37	Beams	m3	28		-
38	Columns	m3			
	<b>SMOOTH FORMWORK (DEGREE OF ACCURACY III)</b>				
	<b>Smooth formwork to sides</b>				
39	Beams				
40	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	45		-
	<b>MOVEMENT JOINTS ETC</b>				
	<b>Isolation joints</b>				
41	Isolation joint in slabs 10mm wide sealed with and including polyurethane sealant	m	20		-
	<b>Slip joints</b>				
42	3mm tempered hardboard between horizontal concrete and brick surfaces not exceeding 300mm wide	m	13		-
	<b>REINFORCEMENT (PROVISIONAL)</b>				
	(CPAP Work Group No. 114)				
	<b>Steel reinforcement to structural concrete work</b>				
43	Various diameter bars				-
	Mild Steel Bars				
	8mm	t	1		-
	10mm	t	1		-
	<b>High tensile steel bars</b>				
	10mm	t			
	12mm	t	3		-
	16mm	t	2		-
	20mm	t	2		-
	25mm	t	3		-
	<b>Steel mesh reinforcement</b>				
44	Type 245 fabric reinforcement in brick walls with and including butterfly ties at every fourth course	m2	285		-
45	Fabric reinforcement in concrete surface beds, slabs, etc.	m2			
	<b>PRECAST CONCRETE</b>				
46	Standard concor or equal pre-stressed concrete lintel bedded in mortar and extending not less than 225mm on either side of opening				
	<b>Precast Lintels</b>				
47	110 x 75mm Lintels in lengths not exceeding 3m	m			
	Carried to Summary				-

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 15
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO: 3</b>				
	<b>MASONRY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles to Model Preambles				
	will be granted				
	(CPAP WORK GROUP NO.118) unless otherwise stated				
	<b>BRICKWORK</b>				
	<b>IN FOUNDATIONS (PROVISIONAL)</b>				
	<b>Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar</b>				
48	115mm brick walls.	m2	25		-
49	230mm brick walls.	m2			
	<b>IN SUPERSTRUCTURE</b>				
	<b>Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar</b>				
50	115mm brick walls.	m2	65		
51	115mm brick walls in beam filling.	m2	65		
52	230mm brick walls.	m2	312		
	<b>Brickwork reinforcement</b>				
53	75mm Wide reinforcement built in horizontally	m	455		-
54	150mm Wide reinforcement built in horizontally	m	1520		-
55	12mm Bitumen impregnated fibre board built in vertically between brickwork and concrete surface bed	m2	15		-
	<b>Balance brought down</b>				-

	<b>SCHEDULE OF QUANTITIES</b>	CONTRACT No.			<b>PAGE 16</b>
	For the Construction of Tshikota CRUs	<b>B02/2021-22FY</b>			
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QNTY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>Balance brought forward</b>				-
	<b>Turning pieces</b>				
56	110mm Wide turning piece to lintels etc	m	65		-
	<b>Galvanised hoop iron cramps, ties, etc</b>				
57	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	95		-
	<b>Carried to Summary</b>				-

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 17
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 4</b>				
	<b>WATERPROOFING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.120) unless otherwise stated				
	<b>DAMPPROOFING OF WALLS AND FLOORS</b>				
	<b>One layer of 375 micron "Tarkon or equal approved" DPC embossed damp proof course</b>				
58	In walls	m2	18		-
	<b>One layer of 250 micron "Tarkon or equal approved" Gunplas USB Green waterproof sheeting sealed at laps with " Gunplas Pressure Sensitive Tape"</b>				
59	Under surface beds	m2	325		-
60	On bottoms and sides of ground beams	m2	165		-
	<b>JOINT SEALANTS ETC</b>				
	<b>"Compriband" bitumen impregnated foam plastic joint sealing strips</b>				
61	10 x 10mm sealant in isolation joint	m	65		-
62	25x20mm In joints between walls	m			
	<b>Carried to Summary</b>				-

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 18
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 5</b>				
	<b>ROOF COVERINGS ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.124) unless otherwise stated				
	<b>PROFILED METAL SHEETING AND ACCESSORIES</b>				
	<b>Roof coverings</b>				
	Standard Slate Double Roman concrete roof tiles, size 420 x 332mm laid in straight bond with minimum 75mm headlap, fixed at a pitch of 23° with three rows of tiles at the ridge, eaves and verges for the full overhang and every third tile in every row over the remainder of the roof in a raking pattern using non corrosive nails to 38 x 50mm sawn softwood battens on edge at maximum 345mm centres, on Under Tile Membrane with joints lapped 150mm, fixed over rafters with trusses (elsewhere specified) at 950mm centres all to engineer's designs				
63	On roofs not exceeding 25 degrees pitch	m2	186		-
64	Standard head wall flashing 185mm girth	m	12		-
	<b>ROOF AND WALL INSULATION</b>				
	<b>Carried to Summary</b>				-

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 19
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORK</b>				
	<b>BILL NO. 6</b>				
	<b>CARPENTRY AND JOINERY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.126) unless otherwise stated				
	<b>ROOFS, ETC</b>				
	Sawn softwood				
65	38 x 114mm Wall plates	m	19		
66	Design, manufacture and deliver on site, plate nailed roof trusses to type A, with area 186m2 measured on plan. Each truss 8200mm x 2300mm high overall with 600mm eaves overhan, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	Item.	1		
	<b>EAVES, VERGES, ETC</b>				
	<b>Pressed Fibre Cement</b>				
	"Everite FC77" or other equal and approved pressed fibre cement 225x12mm flat sheet fascia screwed to trusses to recieve paint				
67	12 x 225mm Fascias and barge boards, including aluminium H-profile jointing strips	m	125		
	<b>SKIRTINGS</b>				
	<b>Wrought meranti</b>				
68	70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish	m	125		
69	50 x 18mm Meranti cornices nailed	m			
	<b>DOORS, ETC</b>				
	<b>Wrought meranti doors</b>				
	44mm Framed, ledged and braced batten door 0,81 x 2,03m high of 44 x 107mm top rail and stiles, 16 x 107mm middle ledge and braces and 22 x 219mm bottom ledge filled in with 22mm V-jointed one side boarding and covered on the other side with 6mm plywood with veneer to match door let into and including rebates all round.				
70	813mm x 2032mm x 40mm	No	12		
	<b>Solid core flush panel door with Masonite finish and concealed hardwood edges</b>				
71	813mm x 2032mm x 40mm.	No	12		
	<b>Semi-Solid core flush panel door with Masonite finish and concealed hardwood edges.</b>				
72	813mm x 2032mm x 40mm.	No	18		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 20
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL No. 7</b>				
	<b>CEILINGS, PARTITIONS AND ACCESS FLOORING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.129) unless otherwise stated				
	<b>CEILINGS, ETC</b>				
	<b>NAILED-UP CEILINGS</b>				
	6 mm thick fibre cement cellulose board, nailed to 38 x 38mm battens (450c/c) with 2mm galvanised or cadmium plated clout headed nails Complete with H-profile jointing strips.				
73	Ceilings including 38 x 38mm sawn softwood brandering at not exceeding 300mm centres in one direction	m2	125		
	<b>PLASTERBOARD</b>				
	12.5mm Rhino Plasterboard tapered edged ceiling boards. Secured to a DONN suspended hidden "T" steel grid system. Grid suspended from concrete slab or trusses with metal angle hangers all as per manufacturers requirements. Boards installed with printed side up and all joints to be taped (rhino tape) and skimmed with Rhinolite or Cretestone plaster. All done in accordance with manufacturers' instructions to ensure a smooth unblemished ceiling surface. Ceiling edged with a pre-painted shadowline cornice				
74	Horizontal ceilings, including 38 x 38mm sawn softwood brandering at 450mm centres in one direction	m2	125		
75	Extra over ceilings for trapdoor size 650 x 650mm in clear including all sawn and wrot Pine framing, etc covered with ceiling board and fitted flush with ceiling.	No	6		
	<b>CORNICES</b>				
	<b>Masonite Cornices</b>				
76	75 x 19mm Masonite cornice, plugged	m	285		
	<b>INSULATION</b>				
	<b>"Aerolite insulation" or other approved insulation</b>				
77	40mm thick resin bonded glass fibre or rock mineral wool	m2	125		
Carried to Summary					

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 21
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 8</b>				
	<b>FLOOR COVERINGS, PLASTIC LININGS, ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.130) unless otherwise stated				
	<b>FLOOR COVERINGS</b>				
	<b>Vinyl</b>				
	<b>2mm thick sheeting, or equal approved.Installed In accordance with</b>				
	<b>Manufacturers specification and recommendation</b>				
	<b>Colour: To Be Confirmed</b>				
78	On floors and in door openings	m2	125		
	<b>Polish, Sealer, Etc</b>				
79	Two coats floor dressing as recommended by the manufacturer's to floor coverings and in door openings in strict accordance with the manufacturer's instructions and specifications.	m2	125		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 22
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 9</b>				
	<b>IRONMONGERY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.132) unless otherwise stated				
	<b>CATCHES, CABIN HOOKS, ETC</b>				
80	Hat & Coat Hook Rubber Buffer, plugged (code: 15469)	No	24		
	<b>LOCKS</b>				
	Chromium plated two lever mortice lockset				
	Satin chromium plated three lever mortice lockset with striking plate				
81	66mm Standard double cylinder (code : IGG950933338)	No	24		
82	76mm Profile arch sash lock (code: 730/68)	No	24		
83	Disabled Mortice indicator lock (code: 195/05)	Sets	1		
	<b>HANDLES</b>				
84	19mm Sanford l/on rose handle (code: EDD104C059)	Pairs	24		
	<b>DOOR CLOSER</b>				
85	Standard door closer ( code: AZ1503R)	Sets	11		
86	Standard arm & p/arm (code: AZ4001DA)	Sets	1		
87	D/Stop rubber buffer (code: 139/69)	No	24		
	<b>Balance brought down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 23
For the Construction of Tshikota CRUs		B13/2020-21FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
	LETTERS, NAMEPLATES, ETC				
88	150 x 150 x 0.9mm thick stainless steel pictogram engraved with male sign	No	6		
89	150 x 150 x 0.9mm thick stainless steel pictogram engraved with male sign	No	6		
90	150 x 150 x 0.9mm thick stainless steel pictogram engraved with a disabled person sign	No	6		
91	150 x 150mm F4/E16/E17 anodised aluminium plate with fire hydrant symbol, fire hose reel, fire extinguisher or fire exit symbol.	No	6		
	SUNDRY IRONMONGERY ITEMS	H2	0		
92	32mm Stainless steel Paraplegic side grab rail (code DL2)	No	1		
93	32mm Stainless steel Paraplegic rear grab rail around cistern (code SR2A) or similar approved	No	1		
	BATHROOM FITTINGS				
	Franke or similar approved				
94	Recessed toilet paper roll holder fwith a single piece pressed lid, welded container and cylinder lock (code 359909)	No	6		
	PVC				
95	Edge trims.	m	94		
	Carried to Summary				

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 24
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 11</b>				
	<b>METALWORK</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
96	813 x 2032mm overall Steel security gates formed of 40x60x2mm steel tubing ingate sorround , 12mm diameter vertical steel rods welded to surrounds	No	6		
	<b>Staircase</b>				
	Allow for staircase and its componets and accessories	Item	1		
	<b>DOOR FRAMES, DOORS, WINDOWS, ETC</b>				
	<b>PRESSED STEEL DOOR FRAMES</b>				
	1.6mm pressed steel doorframe double rebated for 230mm wall and 115 wall, with 4 paired hinges. Single door units must be supplied with striking plate and rubber buffers to lock jamb. One coat of factory primer paint must be applied to frame before despatch.				
	1,6mm Double rebated frames suitable for half brick walls				
97	Frame for door size 813 x 2125mm high	No	18		
	1,6mm Double rebated frames suitable for one brick walls				
98	Frame for door 813 x 2100 mm high	No	6		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 25
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 12</b>				
	<b>PLASTERING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Summplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.142) unless otherwise stated				
	<b>SCREEDS</b>				
	<b>Screeds on concrete</b>				
99	30mm thick wood floated on floors and landings	m2	325		
	<b>GRANOLITHIC</b>				
	<b>Untinted Granolithic on concrete</b>				
100	45mm thick finish on floors and landings	m2	5		
	<b>EXTERNAL PLASTER</b>				
	<b>Cement plaster on brickwork</b>				
101	On walls	m2	165		
	<b>INTERNAL PLASTER</b>				
	<b>Cement plaster on brickwork</b>				
102	On walls	m2	365		
103	On narrow widths not exceeding 300mm wide	m2	25		
	<b>Cement plaster on concrete</b>				
104	On projecting and isolated columns and beams	m2			
105	On ceilings	m2			
106	On raking soffits of stairs	m2			
	<b>CORNER PROTECTORS, DIVIDING STRIPS, ETC</b>				
107	Aluminium tile edge strips	m			
108	30 x 3mm Flat section brass dividing strips between different floor finishes	m			
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 26
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 13</b>				
	<b>TILING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.144) unless otherwise stated				
	<b>WALL TILING</b>				
	600 x 600 x 5mm Thick "Johnson Matisse MWB4 Matt White" glazed ceramic wall tiles fixed with 'Tal Gold Star 6' rapid setting tile adhesive to plaster (elsewhere measured) with 2mm wide joints continuous in both directions with joints pointed with 'Tal Fine Epoxy Grout'				
109	On walls	m2	184		
110	On narrow widths not exceeding 300mm width	m2	35		
	<b>FLOOR TILING</b>				
	600 x 600mm x 8mm "Johnson" Ceramic floor tiles on "Tal Goldstar 6" rapid setting tile adhesive bedding on screed and 6mm flush pointed joints with "Tal Fine Epoxy Grout"				
111	On floors	m2	325		
	240x240mm clay floor tiles laid on a smooth, even, dust free surface with tile adhesive grout				
112	On floors and landings	m2			
113	Cut tiles to skirting 100mm high	m	65		
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 27
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 14</b>				
	<b>PLUMBING AND DRAINAGE</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.148) unless otherwise stated				
	<b>RAINWATER DISPOSAL</b>				
	<b>Steel rainwater gutters and rainwater pipes</b>				
114	100 x 100 x 0.6mm powder coated steel rainwater gutters and downpipes fixed to roof structure as per manufacturer's specifications	m	65		
115	Extra over 100x 100 x 0.6mm powder coated steel rainwater gutter for stopped end	No	2		
116	Extra over 100 x 100 x 0.6mm powder coated steel rainwater gutter for outlet for 75 x 75mm pipe	No	7		
117	100 x 100mm diameter rainwater pipes	m	25		
118	Extra over 100 x 100mm rainwater pipe for bend	No	8		
119	Extra over 100 x 100mm rainwater pipe for shoe	No	8		
120	Extra over 100 x 100mm rainwater pipe for offsets	No	5		
	<b>Balance brought down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 28
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
	<b>SANITARY FITTINGS</b>				
	<b>Vaal or equally approved</b>				
121	Vitreous china "orchid" closed coupled 90 degrees outlet wall hung open rim pan (code 438600) and matching 6 litre pushbutton top dual flush back inlet cistern (code 4386DT) complete with lid, fitment and with bolt-through-the-wall bracket (code 8084Z0)	No	6		
122	Ceramic fireclay 595 x455mm "cameo" oval self rimming vanity basin with one tap and chainstay hole through the centre semi-punched taphole supplied standard without an overflow	No	6		
123	"Vaal Potteries" Orchid paraplegic wall hung WC suite	No	6		
124	Sanitaryware vitreous china sola 510 basin (code: 703700) including 32mm standing overflow tube, chrome plated (code 8630Z0) fixed to wall using a concealed wall bracket (code 813Z3), and three 10mm bolts (code 844820) and sealed with silicon sealant or equivalent between basin and finished wall surface area or similar approved	No	6		
125	Plexicor president 1700 cast acrylic perspex rectangular bath in opal finished with with chromium plated grip handles, overall size 1700 x 750 x 400mm deep	No	6		
126	Pre-assembled steel kitchen sink 1500mm x 535mm , finished with epoxy power	No	6		
	<b>WASTE UNIONS ETC</b>				
	<b>"Cobra Watertech" or equal approved</b>				
127	Sink waste (code 316)	No	6		
	<b>TRAPS ETC</b>				
	<b>Dutton Plastic Engineering</b>				
128	Anti vac bottle trap (code DB22A/V)	No	6		
129	Bath trap ( code 40PBC)	No	6		
	Balance brought down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 29
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
	<b>uPVC</b>				
130	40 x 40mm flexi rubber waste trap	No	6		
	<b>SANITARY PLUMBING</b>				
	<b>uPVC soil and vent pipes</b>				
131	40 mm diameter pipe	m	18		
132	50 mm diameter pipe	m	22		
133	110mm Pipe laid in and including trench excavation not exceeding 1m deep including backfilling with selected granular fill in bedding and filling around pipes	m	75		
	<b>Extra over uPVC soil and vent pipes for fittings</b>				
134	40mm junction	No	3		
135	40mm bend	No	10		
136	40 mm Nipple	No	5		
137	50mm bend	No	4		
138	50mm junction	No	5		
139	50mm reducing junction	No	4		
140	110 mm Reducer with anti-syphon horn	No	10		
141	110mm bend	No	8		
142	110 mm Straight pan connector	No	10		
	Balance brought down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 30
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
143	110 mm Reducing junction	No	4		
144	Vent cowl and setting in top of 110 mm diameter pipe	No	5		
	<b>Sundries</b>				
145	Testing waste pipe system	Item	1		
	<b>WATER SUPPLIES</b>				
	<b>Class 2 copper pipes with brass compression couplings</b>				
146	22mm Pipes	m	5		
	<b>Extra over class 2, copper pipes for soldered capillary fittings</b>				
147	22mm, fittings	No	12		
	<b>FIRE APPLIANCES ETC</b>				
148	"Everyway" hose reel to comply with SABS 543, complete with 30m rubber hose, chromium plated stop cock, shut-off nozzle and wall bracket	No.	24		
149	4.5kg Dry chemical powder fire extinguisher complete with brackets fixed to wall	No.	96		
	<b>ELECTRIC HOT WATER HEATERS</b>				
	150L electric water heater complying with SABS 151-2002, overall size 1335 x 538mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be wall mounted vertically using supplied wall mounting brackets with 620 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code: GSTP-760) and 15mm pipe work including two 15mm vacuum breakers installed on hot and cold water supply. Installation to include a 15mm 400kPa multi control and expansion relief valve, all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.				
150	150 Litre geyser floor/wall electric water heater	No.	96		
	<b>WATER METERS</b>				
	Provide erf connections complete; Includes trench, bedding, backfill, pipe fittings, water meter, saddles marker posts and all material, including work to complete the connection (saddles to main pipe measured elsewhere)	No	96		
	<b>TESTING</b>				
151	Allow for testing of all sanitary plumbing, water supplies and fire services to the satisfaction of the Principal Agent.	Item	1		
	All defective works are to be taken out and replaced at the contractor's expense and the whole re-tested until found satisfactory.				
	<b>Carried to summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 31
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 15				
	GLAZING				
	NOTE:				
	The Contractor must read each The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities description throughout this				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Summplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.150) unless otherwise stated				
	SUPPLEMENTARY PREAMBLES				
	Float glass				
	The term "float glass" is used for monolithic annealed glass				
	Laminated glass				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	GLAZING TO STEEL WITH PUTTY				
	6,4mm safety glass				
152	Panes exceeding 0,1 and not exceeding 0,5m2	m2	12		
	TOPS, SHELVES, DOORS, MIRRORS, ETC				
	6mm Silvered float glass mirrors with bevelled and polished edges, drilled four (4) times and countersunk screwed to plugs in wall with 38 mm long screws, fitted with domed chromium-plated cups				
153	600 x 900mm high mirrors	No	6		
	Carried to summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 32
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 16</b>				
	<b>PAINTWORK</b>				
	<b>NOTE:</b>				
	The Contractor must read each The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities description throughout this				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Summplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.152) unless otherwise stated				
	PAINTWORK, ETC TO NEW WORK ON				
	<b>ON PLASTER, ETC.</b>				
	<b>Internal Walls</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two PVA (arcrylic) paint</b>				
154	On walls	m2	365		
155	On narrow widths	m2	35		
156	Ceilings.				
	<b>External walls</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two PVA (arcrylic) paint</b>				
157	On walls.	m2	195		
158	On narrow widths.	m2			
	<b>ON CONCRETE</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two coats exterior quality PVA emulsion paint</b>				
159	On soffits of concrete slabs.	m2			
160	On raking soffits of stairs	m2			
161	On projecting and isolated columns and beams	m2			
	<b>ON FIBRE-CEMENT</b>				
	<b>One coat primer and two coats professional acrylic polyvinyl acetate</b>				
162	Ceilings and cornices, including priming metal cover strips and nailheads	m2	145		
163	On fascias and barge boards	m2	42		
	<b>Balance brought down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 33
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
	<b>ON METAL</b>				
	Prepare surface and apply one coat Dulux Duraphos (or equal approved),				
	one coat Dulux Duragrip (or equal approved) and two coat Dulux				
	Silthane Silk enamel (or equal approved)				
164	On door frames.	m2	28		
165	Gates, grilles, burglar screens, balustrades, etc (both sides measured over full flat area)	m2	21		
166	On gutters and downpipes	m			
	<b>ON WOOD ETC.</b>				
	Prepare surface and apply one coat Dulux Duragrip				
	(or equal approved) and two coats Dulux Silthane				
	Silk Enamel (or equal approved)				
167	On doors	m2	65		
	Apply one undercoat and one coat high gloss paint.				
168	Back boards of fire extinguishers.	m2			
	<b>ON PLASTER BOARD, HARDBOARD, ETC.</b>				
	Sand down and apply two coats of Woodoc 30 Varnish				
169	On doors.	m2	65		
170	70 mm x 19 mm Meranti skirting with 19 mm quarter round	m			
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 34
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION				AMOUNT
1	SITE CLEARANCE	Page	10		
2	EARTHWORKS	Page	11		
3	CONCRETE, FORMWORK AND REINFORCEMENT	Page	13		
4	MASONRY	Page	15		
5	WATERPROOFING	Page	17		
6	ROOF COVERINGS	Page	18		
7	CARPENTRY AND JOINERY	Page	19		
8	CEILINGS,PARTITIONS ETC	Page	20		
9	FLOOR COVERINGS	Page	21		
10	IRONMONGERY	Page	22		
11	METALWORK	Page	24		
12	PLASTERING	Page	25		
13	TILING	Page	26		
14	PLUMBING AND DRAINAGE	Page	27		
15	GLAZING	Page	31		
16	PAINTWORK	Page	32		
TOTAL SUMMARY PER UNIT					
96)			24		

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 35
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>TYPE C</b>				
	<b>Two Bedroom Unit</b>				
	<b>SECTION NO. 1</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 2</b>				
	<b>SITE CLEARANCE ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said				
	Model Preambles for Trades or Summplementary Preambles to Model Preambles				
	will be granted				
	(CPAP WORK GROUP NO.104) unless otherwise stated				
	<b>SITE CLEARANCE ETC</b>				
	<b>Site clearance:</b>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, including grubbing up roots, filling up holes and compacting to 90% MOD ASSHTO density	m2	2250		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m	507		
	<b>REMOVAL OF TREES ETC</b>				
	<b>Taking out and removing, grubbing up roots and filling in holes</b>				
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2		-
4	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	2		-
	<b>Cutting down and removing, grubbing up roots and filling in holes</b>				
5	Hedge exceeding 2m and not exceeding 3m high	m			
6	Tree exceeding 200mm and not exceeding 500mm girth	No			
7	Tree exceeding 500mm and not exceeding 1000mm girth	No			
8	Tree exceeding 1000mm and not exceeding 1500mm girth	No			
9	Tree exceeding 1500mm and not exceeding 2000mm girth	No			
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 36
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>BUILDING WORKS</b>				
	<b>BILL No. 2</b>				
	<b>EARTHWORKS (PROVISIONAL)</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Sumplimentary Preambles to Model Preambles will be granted				
	<b>EXCAVATION, FILLING, ETC</b>				
	<b>EXCAVATION, FILLING, ETC OTHER THAN BULK</b>				
	<b>Excavation in earth not exceeding 2m deep</b>				
10	Reduced levels under floors	m3			
11	Trenches	m3	11		-
	<b>Extra over trench and hole excavations in earth for excavation in</b>				
12	Soft rock	m3	2		-
13	Hard rock	m3	1		-
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 37
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>Balance Brought Forward</b>				
	<b>Extra over all excavations for carting away</b>				
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	km/m <sup>3</sup>	5		-
	<b>Risk of collapse of excavations</b>				
15	Sides of trench and hole excavations not exceeding 1,5m deep	m2	25		-
16	Sides of trench and hole excavations exceeding 1,5m deep	m2			
	<b>Keeping excavations free of water</b>				
17	Allow for keeping all excavations free of water and mud	Item	1		-
	<b>FILLING ETC</b>				
	<b>G5 filling supplied by the contractor compacted to 98% Mod AASHTO density</b>				
18	Under floors, steps, pavings etc	m <sup>3</sup>	5		-
	Prescribed density tests on filling				
19	"Modified AASHTO Density" test	No	4		-
	<b>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</b>				
20	Over site	m <sup>3</sup>			
21	Under floors, steps, pavings, etc	m <sup>3</sup>			
22	Backfilling to trenches, holes, etc	m <sup>3</sup>			
	<b>Compaction of surfaces</b>				
23	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2			
	<b>Prescribed density tests on filling</b>				
24	"Modified AASHTO Density" test	No			
	<b>SOIL POISONING</b>				
	<b>Soil insecticide in accordance with SANS 5859</b>				
25	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	45		-
26	To bottoms and sides of trenches etc	m2	50		-
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 38
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL No. 3</b>				
	<b>CONCRETE, FORMWORK AND REINFORCEMENT</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	<b>CONCRETE</b>				
	(CPAP Work Group No. 110)				
	<b>SUBSTRUCTURE</b>				
	<b>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b>				
	15MPa/20mm concrete				
27	Surface blinding under footings and bases	m3			
	<b>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b>				
	30MPa/19mm concrete				
28	Foundations	m3	50		-
29	Surface beds cast in panels on waterproofing (measured elsewhere)	m3	8		-
	<b>REINFORCED CONCRETE</b>				
	30MPa/20mm concrete				
30	Slabs, including beams and inverted beams	m3			
31	Stairs, including landings, beams and inverted beams	m3			
32	Columns	m3			
	<b>TEST CUBES</b>				
33	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5		-
	<b>CONCRETE SUNDRIES</b>				
	<b>Finishing top surfaces of concrete smooth with a wood float/steel trowel</b>				
34	Surface beds, slabs, etc	m2	45		
	<b>Finishing top surfaces of concrete smooth with a power float</b>				
35	Surface beds, slabs, etc	m2	45		
	<b>Core Drill</b>				
36	Core drill through 250mm thick reinforced concrete slab, 100mm diameter.	No			
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 39
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	<b>FORMWORK</b>				
	<b>ROUGH FORMWORK (DEGREE OF ACCURACY III)</b>				
	(CPAP Work Group No. 111)				
	<b>Rough formwork to sides</b>				
37	Beams	m <sup>3</sup>	5		-
38	Columns	m <sup>3</sup>			
	<b>SMOOTH FORMWORK (DEGREE OF ACCURACY III)</b>				
	<b>Smooth formwork to sides</b>				
39	Beams				
40	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	18		-
	<b>MOVEMENT JOINTS ETC</b>				
	<b>Isolation joints</b>				
41	Isolation joint in slabs 10mm wide sealed with and including polyurethane sealant	m	15		-
	<b>Slip joints</b>				
42	3mm tempered hardboard between horizontal concrete and brick surfaces not exceeding 300mm wide	m	8		-
	<b>REINFORCEMENT (PROVISIONAL)</b>				
	(CPAP Work Group No. 114)				
	<b>Steel reinforcement to structural concrete work</b>				
43	Various diameter bars				-
	Mild Steel Bars				
	8mm	t	1		-
	10mm	t	1		-
	<b>High tensil steel bars</b>				
	10mm	t			
	12mm	t	2		-
	16mm	t	2		-
	20mm	t	1		-
	25mm	t	9		-
	<b>Steel mesh reinforcement</b>				
44	Type 245 fabric reinforcement in brick walls with and including butterfly ties at every fourth course	m <sup>2</sup>	45		-
45	Fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>			
	<b>PRECAST CONCRETE</b>				
46	Standard concor or equal pre-stressed concrete lintel bedded in mortar and extending not less than 225mm on either side of opening				
	<b>Precast Lintels</b>				
47	110 x 75mm Lintels in lengths not exceeding 3m	m			
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 40
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO: 3</b>				
	<b>MASONRY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.118) unless otherwise stated				
	<b>BRICKWORK</b>				
	<b>IN FOUNDATIONS (PROVISIONAL)</b>				
	<b>Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar</b>				
48	115mm brick walls.	m2	18		-
49	230mm brick walls.	m2			
	<b>IN SUPERSTRUCTURE</b>				
	<b>Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar</b>				
50	115mm brick walls.	m2	8		
51	115mm brick walls in beam filling.	m2			
52	230mm brick walls.	m2	38		
	<b>Brickwork reinforcement</b>				
53	75mm Wide reinforcement built in horizontally	m	125		-
54	150mm Wide reinforcement built in horizontally	m	165		-
55	12mm Bitumen impregnated fibre board built in vertically between brickwork and concrete surface bed	m2	9		-
	<b>Turning pieces</b>				
56	110mm Wide turning piece to lintels etc	m	15		-
	<b>Galvanised hoop iron cramps, ties, etc</b>				
57	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	16		-
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 41
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 4</b>				
	<b>WATERPROOFING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.120) unless otherwise stated				
	<b>DAMPPROOFING OF WALLS AND FLOORS</b>				
	<b>One layer of 375 micron "Tarkon or equal approved" DPC embossed</b>				
	<b>damp proof course</b>				
58	In walls	m2	8		-
	<b>One layer of 250 micron "Tarkon or equal approved"</b>				
	<b>Gunplas USB Green waterproof sheeting sealed at</b>				
	<b>laps with " Gunplas Pressure Sensitive Tape"</b>				
59	Under surface beds	m2	55		-
60	On bottoms and sides of ground beams	m2	45		-
	<b>JOINT SEALANTS ETC</b>				
	<b>"Compriband" bitumen impregnated foam plastic</b>				
	<b>joint sealing strips</b>				
61	10 x 10mm sealant in isolation joint	m	18		-
62	25x20mm In joints between walls	m			
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 42
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 5</b>				
	<b>ROOF COVERINGS ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.124) unless otherwise stated				
	<b>PROFILED METAL SHEETING AND ACCESSORIES</b>				
	<b>Roof coverings</b>				
	Standard Slate Double Roman concrete roof tiles, size 420 x 332mm laid in straight bond with minimum 75mm headlap, fixed at a pitch of 23° with three rows of tiles at the ridge, eaves and verges for the full overhang and every third tile in every row over the remainder of the roof in a raking pattern using non corrosive nails to 38 x 50mm sawn softwood battens on edge at maximum 345mm centres, on Under Tile Membrane with joints lapped 150mm, fixed over rafters with trusses (elsewhere specified) at 950mm centres all to engineer's designs				
63	On roofs not exceeding 25 degrees pitch	m2	65		
64	Standard head wall flashing 185mm girth	m	8		
	<b>ROOF AND WALL INSULATION</b>				
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 43
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORK</b>				
	<b>BILL NO. 6</b>				
	<b>CARPENTRY AND JOINERY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.126) unless otherwise stated				
	<b>ROOFS, ETC</b>				
	Sawn softwood				
65	38 x 114mm Wall plates	m	18		
66	Design, manufacture and deliver on site, plate nailed roof trusses to type C, with area 92m2 measured on plan. Each truss 8200mm x 2300mm high overall with 600mm eaves overhan, including all necessary purlins, runners, bracing and cross bracing (wall plates elaseewhere)	Item.	1		
	<b>EAVES, VERGES, ETC</b>				
	<b>Pressed Fibre Cement</b>				
	"Everite FC77" or other equal and approved pressed fibre cement 225x12mm flat sheet fascia screwed to trusses to recieve paint				
67	12 x 225mm Fascias and barge boards, including aluminium H-profile jointing strips	m	65		
	<b>SKIRTINGS</b>				
	<b>Wrought meranti</b>				
68	70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish	m	85		
69	50 x 18mm Meranti cornices nailed	m			
	<b>DOORS, ETC</b>				
	<b>Wrought meranti doors</b>				
	44mm Framed, ledged and braced batten door 0,81 x 2,03m high of 44 x 107mm top rail and stiles, 16 x 107mm middle ledge and braces and 22 x 219mm bottom ledge filled in with 22mm V-jointed one side boarding and covered on the other side with 6mm plywood with veneer to match door let into and including rebates all round.				
70	813mm x 2032mm x 40mm	No	1		
	<b>Solid core flush panel door with Masonite finish and concealed hardwood edges</b>				
71	813mm x 2032mm x 40mm.	No	1		
	<b>Semi-Solid core flush panel door with Masonite finish and concealed hardwood edges.</b>				
72	813mm x 2032mm x 40mm.	No	3		
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 44
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL No. 7</b>				
	<b>CEILINGS, PARTITIONS AND ACCESS FLOORINGS</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.129) unless otherwise stated				
	<b>CEILINGS, ETC</b>				
	<b>NAILED-UP CEILINGS</b>				
	6 mm thick fibre cement cellulose board, nailed to 38 x 38mm battens (450c/c) with 2mm galvanised or cadmium plated clout headed nails				
	Complete with H-profile jointing strips.				
73	Ceilings including 38 x 38mm sawn softwood branderling at not exceeding 300mm centres in one direction	m2	45		
	<b>PLASTERBOARD</b>				
	12.5mm Rhino Plasterboard tapered edged ceiling boards. Secured to a DONN suspended hidden "T" steel grid system. Grid suspended from concrete slab or trusses with metal angle hangers all as per manufacturers requirements. Boards installed with printed side up and all joints to be taped (rhino tape) and skimmed with Rhinolite or Creststone plaster. All done in accordance with manufacturers' instructions to ensure a smooth unblemished ceiling surface.				
	Ceiling edged with a pre-painted shadowline cornice				
74	Horizontal ceilings, including 38 x 38mm sawn softwood branderling at 450mm centres in one direction	m2	45		
75	Extra over ceilings for trapdoor size 650 x 650mm in clear including all sawn and wrot Pine framing, etc covered with ceiling board and fitted flush with ceiling	No	1		
	<b>CORNICES</b>				
	<b>Masonite Cornices</b>				
76	75 x 19mm Masonite cornice, plugged	m	50		
	<b>INSULATION</b>				
	<b>"Aerolite insulation" or other approved insulation</b>				
77	40mm thick resin bonded glass fibre or rock mineral wool	m2	45		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 45
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 8</b>				
	<b>FLOOR COVERINGS, PLASTIC LININGS, ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles will be granted				
	(CPAP WORK GROUP NO.130) unless otherwise stated				
	<b>FLOOR COVERINGS</b>				
	<b>Vinyl</b>				
	<b>2mm thick sheeting, or equal approved.Installed In accordance with</b>				
	<b>Manufacturers specification and recommendation</b>				
	<b>Colour: To Be Confirmed</b>				
78	On floors and in door openings	m2	45		
	<b>Polish, Sealer, Etc</b>				
79	Two coats floor dressing as recommended by the manufacturer's to floor	m2	45		
	coverings and in door openings in strict accordance with the manufacturer's				
	instructions and specifications.				
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 46
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 9</b>				
	<b>IRONMONGERY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.132) unless otherwise stated				
	<b>CATCHES, CABIN HOOKS, ETC</b>				
80	Hat & Coat Hook Rubber Buffer (code: 15469)	No	2		
	<b>LOCKS</b>				
	Chromium plated two lever mortice lockset				
	Satin chromium plated three lever mortice lockset with striking plate				
81	66mm Standard double cylinder (code : IGG950933338)	No	4		
82	76mm Profile arch sash lock (code: 730/68)	No	4		
83	Disabled Mortice indicator lock (code: 195/05)	Sets	1		
	<b>HANDLES</b>				
84	19mm Sanford l/on rose handle (code: EDD104C059)	Pairs	4		
	<b>DOOR CLOSER</b>				
85	Standard door closer ( code: AZ1503R)	Sets	4		
86	Standard arm & p/arm (code: AZ4001DA)	Sets	1		
87	D/Stop rubber buffer (code: 139/69)	No	4		
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 47
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	LETTERS, NAMEPLATES, ETC				
88	100 x 100 x 0.9mm thick stainless steel pictogram engraved with male sign	No	1		
89	100 x 100 x 0.9mm thick stainless steel pictogram engraved with male sign	No	1		
90	160 x 160 x 0.9mm thick stainless steel pictogram engraved with a disabled person sign	No	1		
91	150 x 150mm F4/E16/E17 anodised aluminium plate with fire hydrant symbol, fire hose reel, fire extinguisher or fire exit symbol.	No	1		
	SUNDRY IRONMONGERY ITEMS				
92	32mm Stainless steel Paraplegic side grab rail (code DL2)	No	1		
93	32mm Stainless steel Paraplegic rear grab rail cistern (code SR2A) or similar approved	No	1		
	BATHROOM FITTINGS				
	Franke or similar approved				
94	Recessed toilet paper roll holder fwith a single piece pressed lid, welded container and cylinder lock (code 359909)	No	1		
	PVC				
95	Edge trims.	m	28		
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 48
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 11</b>				
	<b>METALWORK</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles will be granted				
96	813 x 2032mm overall Steel security gates formed of 40x60x2mm steel tubing ingate sorround , 12mm diameter vertical steel rods welded to surrounds	No	1		
	<b>DOOR FRAMES, DOORS, WINDOWS, ETC</b>				
	<b>PRESSED STEEL DOOR FRAMES</b>				
	1.6mm pressed steel doorframe double rebated for 230mm wall and 115 wall, with 4 paired hinges. Single door units must be supplied with striking plate and rubber buffers to lock jamb. One coat of factory primer paint must be applied to frame before despatch.				
	1,6mm Double rebated frames suitable for half brick walls				
97	Frame for door size 813 x 2125mm high	No	3		
	1,6mm Double rebated frames suitable for one brick walls				
98	Frame for door 813 x 2125 mm high	No	1		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 49
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 12</b>				
	<b>PLASTERING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.142) unless otherwise stated				
	<b>SCREEDS</b>				
	<b>Screeds on concrete</b>				
99	30mm thick wood floated on floors and landings	m2	55		
	<b>GRANOLITHIC</b>				
	<b>Untinted Granolithic on concrete</b>				
100	45mm thick finish on floors and landings	m2	2		
	<b>EXTERNAL PLASTER</b>				
	<b>Cement plaster on brickwork</b>				
101	On walls	m2	35		
	<b>INTERNAL PLASTER</b>				
	<b>Cement plaster on brickwork</b>				
102	On walls	m2	135		
103	On narrow widths not exceeding 300mm wide	m2	7		
	<b>Cement plaster on concrete</b>				
104	On projecting and isolated columns and beams	m2			
105	On ceilings	m2			
106	On raking soffits of stairs	m2			
	<b>CORNER PROTECTORS, DIVIDING STRIPS, ETC</b>				
107	Aluminium tile edge strips	m			
108	30 x 3mm Flat section brass dividing strips between different floor finishes	m			
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 50
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 13</b>				
	<b>TILING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.144) unless otherwise stated				
	<b>WALL TILING</b>				
	600 x 600 x 5mm Thick "Johnson Matisse MWB4 Matt White" glazed				
	ceramic wall tiles fixed with 'Tal Gold Star 6' rapid setting tile adhesive				
	to plaster (elsewhere measured) with 2mm wide joints continuous				
	in both directions with joints pointed with 'Tal Fine Epoxy Grout'				
109	On walls	m2	8		
110	On narrow widths not exceeding 300mm width	m2	1		
	<b>FLOOR TILING</b>				
	600 x 600mm x 8mm "Johnson" Ceramic floor tiles on "Tal Goldstar 6"				
	rapid setting tile adhesive bedding on screed and 6mm flush pointed				
	joints with "Tal Fine Epoxy Grout"				
111	On floors	m2	45		
	240x240mm clay floor tiles laid on a smooth, even, dust free surface				
	with tile adhesive grout				
112	On floors	m2			
113	Cut tiles to skirting 100mm high	m	12		
	<b>Carried to Summary</b>				

	<b>SCHEDULE OF QUANTITIES</b>	CONTRACT No.			<b>PAGE 51</b>
	For the Construction of Tshikota CRUs	<b>B02/2021-22FY</b>			
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QNTY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 14</b>				
	<b>PLUMBING AND DRAINAGE</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.148) unless otherwise stated				
	<b>RAINWATER DISPOSAL</b>				
	<b>Steel rainwater gutters and rainwater pipes</b>				
114	100 x 100 x 0.6mm powder coated steel rainwater gutters and downpipes fixed to roof structure as per manufacturer's specifications	m	23		
115	Extra over 100x 100 x 0.6mm powder coated steel rainwater gutter for stopped end	No	2		
116	Extra over 100 x 100 x 0.6mm powder coated steel rainwater gutter for outlet for 75 x 75mm pipe	No	1		
117	100 x 100mm diameter rainwater pipes	m	8		
118	Extra over 100 x 100mm rainwater pipe for bend	No	2		
119	Extra over 100 x 100mm rainwater pipe for shoe	No	2		
120	Extra over 100 x 100mm rainwater pipe for offsets	No	2		
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 52
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	<b>SANITARY FITTINGS</b>				
	<b>Vaal or equally approved</b>				
121	Vitreous china "orchid" closed coupled 90 degrees outlet wall hung open rim pan (code 438600) and matching 6 litre pushbutton top dual flush back inlet cistern (code 4386DT) complete with lid, fitment and with bolt-through-the-wall bracket (code 8084Z0)	No	1		
122	Vaal code 7030 Bantam basin, size 340 x 460mm overall, fixed to wall with two tapholes including intergrated overflow and chainstay hole bolted to wall with two 10mm bolts and silled with silicone sealant where basin meets wall or simila approved	No	1		
123	"Vaal" Junior 104deg outlet washdown pan (code: 751300) and matching 6 litre cistern (code: 712034) complete with lid and fitments, and junior seat complete	No	1		
124	Ceramic fireclay 595 x455mm "cameo" oval self rimming vanity basin with one tap and chainstay hole through the centre semi-punched taphole supplied standard without an overflow	No	1		
125	"Vaal Potteries" Orchid paraplegic wall hung WC suite	No	1		
126	Sanitaryware vitreous china sola 510 basin (code: 703700) including 32mm standing overflow tube, chrome plated (code 8630Z0) fixed to wall suing a concealed wall bracket (code 8131z3), and three 10mm bolts(code 844820) and sealed with silicon sealant or equivalent between basin and finished wall surface area or similar approved	No	1		
127	Plexicor president 1700 cast acrylic perspex rectangular bath in opal finished with chromium plated grip handles, overall size 1700 x 750 x 400mm deep	No	1		
128	Pre-assembled steel kitchen sink 1500mm x 535mm, finished with epoxy power	No	1		
	Balance Brought Down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 53
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	<b>WASTE UNIONS ETC</b>				
	"Cobra Watertech" or equal approved				
129	Sink waste (code 316)	No	1		
	<b>TRAPS ETC</b>				
	<b>Dutton Plastic Engineering</b>				
130	Anti vac bottle trap (code DB22AV)	No	1		
131	Bath trap ( code 40PBC)	No	1		
	<b>uPVC</b>				
132	40 x 40mm flexi rubber waste trap	No	1		
	<b>TAPS, VALVES, ETC</b>				
	<b>SANITARY PLUMBING</b>				
	<b>uPVC soil and vent pipes</b>				
133	40 mm diameter pipe	m	6		
134	50 mm diameter pipe	m	12		
135	110mm Pipe laid in and including trench excavation not exceeding 1m deep including backfilling with selected granular fill in bedding and filling around pipes	m	42		
	<b>Extra over uPVC soil and vent pipes for fittings</b>				
136	40mm junction	No	3		
137	40mm bend	No	3		
138	40 mm Nipple	No	5		
	Balance Brought Down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 54
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Down				
139	50mm bend	No	1		
140	50mm junction	No	5		
141	50mm reducing junction	No	4		
142	110 mm Reducer with anti-syphon horn	No	8		
143	110mm bend	No	8		
144	110 mm Straight pan connector	No	5		
145	110 mm Reducing junction	No	4		
146	Vent cowl and setting in top of 110 mm diameter pipe	No	5		
	<b>Sundries</b>				
147	Testing waste pipe system	Item	1		
	<b>WATER SUPPLIES</b>				
	<b>Class 2 copper pipes with brass compression couplings</b>				
148	22mm Pipes	m	5		
	<b>Extra over class 2, copper pipes for soldered capillary fittings</b>				
149	22mm, fittings	No	6		
	Balance Brought Down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 55
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	<b>FIRE APPLIANCES ETC</b>				
150	"Everyway" hose reel to comply with SABS 543, complete with 30m rubber hose, chromium plated stop cock, shut-off nozzle and wall bracket	No.	6		
151	4.5kg Dry chemical powder fire extinguisher complete with brackets fixed to wall	No.	6		
	<b>ELECTRIC HOT WATER HEATERS</b>				
	150L electric water heater complying with SABS 151-2002, overall size 1335 x 538mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be wall mounted vertically using supplied wall mounting brackets with 620 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code: GSTP-760) and 15mm pipe work including two 15mm vacuum breakers installed on hot and cold water supply. Installation to include a 15mm 400kPa multi control and expansion relief valve, all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.				
152	150 Litre geyser floor/wall electric water heater	No	6		
	<b>WATER METERS</b>				
	Provide erf connections complete; Includes trench, bedding, backfill, pipe fittings, water meter, saddles marker posts and all material, including work to complete the connection (saddles to main pipe measured elsewhere ):	No	6		
	<b>TESTING</b>				
153	Allow for testing of all sanitary plumbing, water supplies and fire services to the satisfaction of the principal agent.	Item	1		
	All defective works are to be taken out and replaced at the contractor's expense and the whole re-tested until found satisfactory.				
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 56
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 15</b>				
	<b>GLAZING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.150) unless otherwise stated				
	<b>SUPPLEMENTARY PREAMBLES</b>				
	<b>Float glass</b>				
	<b>The term "float glass" is used for monolithic annealed glass</b>				
	<b>Laminated glass</b>				
	<b>Laminated glass to have polyvinyl butyral (PVB) interlayer(s)</b>				
	<b>GLAZING TO STEEL WITH PUTTY</b>				
	<b>6,4mm safety glass</b>				
154	Panes exceeding 0,1 and not exceeding 0,5m2	m2	6		
	<b>TOPS, SHELVES, DOORS, MIRRORS, ETC</b>				
	<b>6mm Silvered float glass mirrors with bevelled and polished edges,</b>				
	<b>drilled four (4) times and countersunk screwed to plugs in wall with 38 mm</b>				
	<b>long screws, fitted with domed chromium-plated cups</b>				
155	600 x 900mm high mirrors	No	1		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 57
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 16</b>				
	<b>PAINTWORK</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.152) unless otherwise stated				
	<b>PAINTWORK, ETC TO NEW WORK ON</b>				
	<b>ON PLASTER, ETC.</b>				
	<b>Internal Walls</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two PVA (arcrylic) paint</b>				
156	On walls	m2	135		
157	On narrow widths	m2	5		
158	Ceilings.				
	<b>External walls</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two PVA (arcrylic) paint</b>				
159	On walls.	m2	65		
160	On narrow widths.	m2			
	<b>ON CONCRETE</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two coats exterior quality PVA emulsion paint</b>				
161	On soffits of concrete slabs.	m2			
162	On raking soffits of stairs	m2			
163	On projecting and isolated columns and beams	m2			
	<b>ON FIBRE-CEMENT</b>				
	<b>One coat primer and two coats professional acrylic polyvinyl acetate</b>				
164	Ceilings and cornices, including priming metal cover strips and nailheads	m2	56		
165	On fascias and barge boards	m2	25		
	<b>ON METAL</b>				
	<b>Prepare surface and apply one coat Dulux Duraphos (or equal approved), one coat Dulux Duragrip (or equal approved) and two coat Dulux Silthane Silk enamel (or equal approved)</b>				
166	On door frames.	m2	15		
167	Gates, grilles, burglar screens, balustrades, etc (both sides measured over full flat area)	m2	8		
168	On gutters and downpipes	m	9		
	<b>ON WOOD ETC.</b>				
	<b>Prepare surface and apply one coat Dulux Duragrip (or equal approved) and two coats Dulux Silthane Silk Enamel (or equal approved)</b>				
169	On doors	m2	9		
	<b>Apply one undercoat and one coat high gloss paint.</b>				
170	Back boards of fire extinguishers.	m2			
	<b>ON PLASTER BOARD, HARDBOARD, ETC.</b>				
	<b>Sand down and apply two coats of Woodoc 30 Varnish</b>				
171	On doors.	m2	9		
172	70 mm x 19 mm Meranti skirting with 19 mm quarter round	m			
	<b>Carried to Collection</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 58
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SUMMARY PAGE</b>				
1	SITE CLEARENCE	Page	35		
2	EARTHWORKS	Page	36		
3	CONCRETE, FORMWORK AND REINFORCEMENT	Page	38		
4	MASONRY	Page	40		
5	WATERPROOFING	Page	41		
6	ROOF COVERINGS	Page	42		
7	CARPENTRY AND JOINERY	Page	43		
8	CEILINGS,PARTITIONS ETC	Page	44		
9	FLOOR COVERINGS	Page	45		
10	IRONMONGERY	Page	46		
11	METALWORK	Page	48		
12	PLASTERING	Page	49		
13	TILING	Page	50		
14	PLUMBING AND DRAINAGE	Page	51		
15	GLAZING	Page	56		
16	PAINTWORK	Page	57		
	<b>TOTAL SUMMARY PER UNIT</b>				
	96)		6	-	

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 59
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>TYPE D</b>				
	<b>One Bedroom Unit</b>				
	<b>SECTION NO. 1</b>				
	<b>EXTERNAL WORKS</b>				
	<b>BILL NO. 4</b>				
	<b>SITE CLEARANCE ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said Model Preambles for Trades or Sumplimentary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.104) unless otherwise stated				
	<b>SITE CLEARANCE ETC</b>				
	<b>Site clearance:</b>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, including grubbing up roots, filling up holes and compacting to 90% MOD ASSHTO density	m2	2250		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m	507		
	<b>REMOVAL OF TREES ETC</b>				
	<b>Taking out and removing, grubbing up roots and filling in holes</b>				
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2		-
4	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	2		-
	<b>Cutting down and removing, grubbing up roots and filling in holes</b>				
5	Hedge exceeding 2m and not exceeding 3m high	m			
6	Tree exceeding 200mm and not exceeding 500mm girth	No			
7	Tree exceeding 500mm and not exceeding 1000mm girth	No			
8	Tree exceeding 1000mm and not exceeding 1500mm girth	No			
9	Tree exceeding 1500mm and not exceeding 2000mm girth	No			
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 60
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL No. 2</b>				
	<b>EARTHWORKS (PROVISIONAL)</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claims arising from brevity of description of items fully described in the said				
	Model Preambles for Trades or Sumplimentary Preambles to Model Preambles will be granted				
	<b>EXCAVATION, FILLING, ETC</b>				
	<b>EXCAVATION, FILLING, ETC OTHER THAN BULK</b>				
	<b>Excavation in earth not exceeding 2m deep</b>				
10	Reduced levels under floors	m <sup>3</sup>			
11	Trenches	m <sup>3</sup>	12		-
	<b>Extra over trench and hole excavations in earth for excavation in</b>				
12	Soft rock	m <sup>3</sup>	1		-
13	Hard rock	m <sup>3</sup>	1		-
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 61
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>Balance Brought Forward</b>				
	<b>Extra over all excavations for carting away</b>				
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	km/m³	7		-
	<b>Risk of collapse of excavations</b>				
15	Sides of trench and hole excavations not exceeding 1,5m deep	m²	35		-
16	Sides of trench and hole excavations exceeding 1,5m deep	m²			
	<b>Keeping excavations free of water</b>				
17	Allow for keeping all excavations free of water and mud	Item	1		-
	<b>FILLING ETC</b>				
	<b>G5 filling supplied by the contractor compacted to 98% Mod AASHTO density</b>				
18	Under floors, steps, pavings etc	m³	5		-
	Prescribed density tests on filling				
19	"Modified AASHTO Density" test	No	8		-
	<b>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</b>				
20	Over site	m³			
21	Under floors, steps, pavings, etc	m³			
22	Backfilling to trenches, holes, etc	m³			
	<b>Compaction of surfaces</b>				
23	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m²			
	<b>Prescribed density tests on filling</b>				
24	"Modified AASHTO Density" test	No			
	<b>SOIL POISONING</b>				
	<b>Soil insecticide in accordance with SANS 5859</b>				
25	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m²	28		-
26	To bottoms and sides of trenches etc	m²	72		-
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 62
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL No. 3</b>				
	<b>CONCRETE, FORMWORK AND REINFORCEMENT</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	<b>CONCRETE</b>				
	(CPAP Work Group No. 110)				
	<b>SUBSTRUCTURE</b>				
	<b>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b>				
	15MPa/20mm concrete				
27	Surface blinding under footings and bases	m3			
	<b>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b>				
	30MPa/19mm concrete				
28	Foundations	m3	50		-
29	Surface beds cast in panels on waterproofing (measured elsewhere)	m3	5		-
	<b>REINFORCED CONCRETE</b>				
	30MPa/20mm concrete				
30	Slabs, including beams and inverted beams	m3			
31	Stairs, including landings, beams and inverted beams	m3			
32	Columns	m3			
	<b>TEST CUBES</b>				
33	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5		-
	<b>CONCRETE SUNDRIES</b>				
	<b>Finishing top surfaces of concrete smooth with a wood float/steel trowel</b>				
34	Surface beds, slabs, etc	m2	28		
	<b>Finishing top surfaces of concrete smooth with a power float</b>				
35	Surface beds, slabs, etc	m2	28		
	<b>Core Drill</b>				
36	Core drill through 250mm thick reinforced concrete slab, 100mm diameter.	No			
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 63
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	<b>FORMWORK</b>				
	<b>ROUGH FORMWORK (DEGREE OF ACCURACY III)</b>				
	(CPAP Work Group No. 111)				
	<b>Rough formwork to sides</b>				
37	Beams	m <sup>3</sup>	7		-
38	Columns	m <sup>3</sup>			
	<b>SMOOTH FORMWORK (DEGREE OF ACCURACY III)</b>				
	<b>Smooth formwork to sides</b>				
39	Beams				
40	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	16		-
	<b>MOVEMENT JOINTS ETC</b>				
	<b>Isolation joints</b>				
41	Isolation joint in slabs 10mm wide sealed with and including polyurethane sealant	m	11		-
	<b>Slip joints</b>				
42	3mm tempered hardboard between horizontal concrete and brick surfaces not exceeding 300mm wide	m	6		-
	<b>REINFORCEMENT (PROVISIONAL)</b>				
	(CPAP Work Group No. 114)				
	<b>Steel reinforcement to structural concrete work</b>				
43	Various diameter bars				-
	Mild Steel Bars				
	8mm	t	0		-
	10mm	t	0		-
	<b>High tensil steel bars</b>				
	10mm	t			
	12mm	t	0		-
	16mm	t	0		-
	20mm	t	0		-
	25mm	t	0		-
	<b>Steel mesh reinforcement</b>				
44	Type 245 fabric reinforcement in brick walls with and including butterfly ties at every fourth course	m <sup>2</sup>	28		-
45	Fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>			
	<b>PRECAST CONCRETE</b>				
46	Standard concor or equal pre-stressed concrete lintel bedded In mortar and extending not less than 225mm on either side of opening				
	<b>Precast Lintels</b>				
47	110 x 75mm Lintels in lengths not exceeding 3m	m			
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 64
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO: 3</b>				
	<b>MASONRY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.118) unless otherwise stated				
	<b>BRICKWORK</b>				
	<b>IN FOUNDATIONS (PROVISIONAL)</b>				
	<b>Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar</b>				
48	115mm brick walls.	m2	19		-
49	230mm brick walls.	m2			
	<b>IN SUPERSTRUCTURE</b>				
	<b>Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar</b>				
50	115mm brick walls.	m2	15		
51	115mm brick walls in beam filling.	m2			
52	230mm brick walls.	m2	52		
	<b>Brickwork reinforcement</b>				
53	75mm Wide reinforcement built in horizontally	m	95		-
54	150mm Wide reinforcement built in horizontally	m	152		-
55	12mm Bitumen impregnated fibre board built in vertically between brickwork and concrete surface bed	m2	8		-
	<b>Turning pieces</b>				
56	110mm Wide turning piece to lintels etc	m	12		-
	<b>Galvanised hoop iron cramps, ties, etc</b>				
57	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	12		-
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 65
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 4</b>				
	<b>WATERPROOFING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.120) unless otherwise stated				
	<b>DAMPPROOFING OF WALLS AND FLOORS</b>				
	<b>One layer of 375 micron "Tarkon or equal approved" DPC embossed damp proof course</b>				
58	In walls	m2	14		-
	<b>One layer of 250 micron "Tarkon or equal approved"</b>				
	<b>Gunplas USB Green waterproof sheeting sealed at laps with " Gunplas Pressure Sensitive Tape"</b>				
59	Under surface beds	m2	28		-
60	On bottoms and sides of ground beams	m2	16		-
	<b>JOINT SEALANTS ETC</b>				
	<b>"Compriband" bitumen impregnated foam plastic joint sealing strips</b>				
61	10 x 10mm sealant in isolation joint	m	18		-
62	25x20mm In joints between walls	m			
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 66
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 5</b>				
	<b>ROOF COVERINGS ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.124) unless otherwise stated				
	<b>PROFILED METAL SHEETING AND ACCESSORIES</b>				
	<b>Roof coverings</b>				
	Standard Slate Double Roman concrete roof tiles, size 420 x 332mm laid in straight bond with minimum 75mm headlap, fixed at a pitch of 23° with three rows of tiles at the ridge, eaves and verges for the full overhang and every third tile in every row over the remainder of the roof in a raking pattern using non corrosive nails to 38 x 50mm sawn softwood battens on edge at maximum 345mm centres, on Under Tile Membrane with joints lapped 150mm, fixed over rafters with trusses (elsewhere specified) at 950mm centres all to engineer's designs				
63	On roofs not exceeding 25 degrees pitch	m2	58		
64	Standard head wall flashing 185mm girth	m	5		
	<b>ROOF AND WALL INSULATION</b>				
	<b>Carried to Summary</b>				

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For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORK</b>				
	<b>BILL NO. 6</b>				
	<b>CARPENTRY AND JOINERY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.126) unless otherwise stated				
	<b>ROOFS, ETC</b>				
	Sawn softwood				
65	38 x 114mm Wall plates	m	12		
66	Design, manufacture and deliver on site, plate nailed roof trusses to type C, with area 92m2 measured on plan. Each truss 8200mm x 2300mm high overall with 600mm eaves overhan, including all necessary purlins, runners, bracing and cross bracing (wall plates elasewhere)	Item.	1		
	<b>EAVES, VERGES, ETC</b>				
	<b>Pressed Fibre Cement</b>				
	"Everite FC77" or other equal and approved pressed fibre cement 225x12mm flat sheet fascia screwed to trusses to recieve paint				
67	12 x 225mm Fascias and barge boards, including aluminium H-profile jointing strips	m	45		
	<b>SKIRTINGS</b>				
	<b>Wrought meranti</b>				
68	70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish	m	36		
69	50 x 18mm Meranti cornices nailed	m			
	<b>DOORS, ETC</b>				
	<b>Wrought meranti doors</b>				
	<b>44mm Framed, ledged and braced batten door 0,81 x 2,03m high of 44 x 107mm top rail and stiles, 16 x 107mm middle ledge and braces and 22 x 219mm bottom ledge filled in with 22mm V-jointed one side boarding and covered on the other side with 6mm plywood with veneer to match door let into and including rebates all round.</b>				
70	813mm x 2032mm x 40mm	No	1		
	<b>Solid core flush panel door with Masonite finish and concealed hardwood edges</b>				
71	813mm x 2032mm x 40mm.	No	1		
	<b>Semi-Solid core flush panel door with Masonite finish and concealed hardwood edges.</b>				
72	813mm x 2032mm x 40mm.	No	3		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 68
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL No. 7</b>				
	<b>CEILINGS, PARTITIONS AND ACCESS FLOORINGS</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.129) unless otherwise stated				
	<b>CEILINGS, ETC</b>				
	<b>NAILED-UP CEILINGS</b>				
	<b>6 mm thick fibre cement cellulose board, nailed to 38 x 38mm battens (450c/c) with 2mm galvanised or cadium plated clout headed nails</b>				
	<b>Complete with H-profile jointing strips.</b>				
73	Ceilings including 38 x 38mm sawn softwood branderling at not exceeding 300mm centres in one direction	m2	28		
	<b>PLASTERBOARD</b>				
	<b>12.5mm Rhino Plasterboard tapered edged ceiling boards. Secured to a DONN suspended hidden "T" steel grid system. Grid suspended from concrete slab or trusses with metal angle hangers all as per manufacturers requirements. Boards installed with printed side up and all joints to be taped (rhino tape) and skimmed with Rhinolite or Crestestone plaster. All done in accordance with manufacturers' instructions to ensure a smooth unblemished ceiling surface.</b>				
	<b>Ceiling edged with a pre-painted shadowline cornice</b>				
74	Horizontal ceilings, including 38 x 38mm sawn softwood branderling at 450mm centres in one direction	m2	28		
75	Extra over ceilings for trapdoor size 650 x 650mm in clear including all sawn and wrot Pine framing, etc covered with ceiling board and fitted flush with ceiling	No	1		
	<b>CORNICES</b>				
	<b>Masonite Cornices</b>				
76	75 x 19mm Masonite cornice, plugged	m	26		
	<b>INSULATION</b>				
	<b>"Aerolite insulation" or other approved insulation</b>				
77	40mm thick resin bonded glass fibre or rock mineral wool	m2	27		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 69
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 8</b>				
	<b>FLOOR COVERINGS, PLASTIC LININGS, ETC</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model				
	Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.130) unless otherwise stated				
	<b>FLOOR COVERINGS</b>				
	<b>Vinyl</b>				
	<b>2mm thick sheeting, or equal approved.Installed In accordance with</b>				
	<b>Manufacturers specification and recommendation</b>				
	<b>Colour: To Be Confirmed</b>				
78	On floors and in door openings	m2	28		
	<b>Polish, Sealer, Etc</b>				
79	Two coats floor dressing as recommended by the manufacturer's to floor	m2	28		
	coverings and in door openings in strict accordance with the manufacturer's				
	instructions and specifications.				
	<b>Carried to Summary</b>				

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For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 9</b>				
	<b>IRONMONGERY</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.132) unless otherwise stated				
	<b>CATCHES, CABIN HOOKS, ETC</b>				
80	Hat & Coat Hook Rubber Buffer (code: 15469)	No	1		
	<b>LOCKS</b>				
	Chromium plated two lever mortice lockset				
	Satin chromium plated three lever mortice lockset with striking plate				
81	66mm Standard double cylinder (code : IGG950933338)	No	3		
82	76mm Profile arch sash lock (code: 730/68)	No	3		
83	Disabled Mortice indicator lock (code: 195/05)	Sets	1		
	<b>HANDLES</b>				
84	19mm Sanford l/on rose handle (code: EDD104C059)	Pairs	3		
	<b>DOOR CLOSER</b>				
85	Standard door closer ( code: AZ1503R)	Sets	3		
86	Standard arm & p/arm (code: AZ4001DA)	Sets	1		
87	D/Stop rubber buffer (code: 139/69)	No	3		
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 71
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	LETTERS, NAMEPLATES, ETC				
88	100 x 100 x 0.9mm thick stainless steel pictogram engraved with male sign	No	1		
89	100 x 100 x 0.9mm thick stainless steel pictogram engraved with male sign	No	1		
90	160 x 160 x 0.9mm thick stainless steel pictogram engraved with a disabled person sign	No	1		
91	150 x 150mm F4/E16/E17 anodised aluminium plate with fire hydrant symbol, fire hose reel, fire extinguisher or fire exit symbol.	No	1		
	SUNDRY IRONMONGERY ITEMS				
92	32mm Stainless steel Paraplegic side grab rail (code DL2)	No	1		
93	32mm Stainless steel Paraplegic rear grab rail cistern (code SR2A) or similar approved	No	1		
	BATHROOM FITTINGS				
	Franke or similar approved				
94	Recessed toilet paper roll holder fwith a single piece pressed lid, welded container and cylinder lock (code 359909)	No	1		
	PVC				
95	Edge trims.	m	28		
	Carried to Summary				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 72
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 11</b>				
	<b>METALWORK</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
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96	813 x 2032mm overall Steel security gates formed of 40x60x2mm steel tubing ingate sorround , 12mm diameter vertical steel rods welded to surrounds	No	1		
	<b>DOOR FRAMES, DOORS, WINDOWS, ETC</b>				
	<b>PRESSED STEEL DOOR FRAMES</b>				
	1.6mm pressed steel doorframe double rebated for 230mm wall and 115 wall, with 4 paired hinges. Single door units must be supplied with striking plate and rubber buffers to lock jamb. One coat of factory primer paint must be applied to frame before despatch.				
	1,6mm Double rebated frames suitable for half brick walls				
97	Frame for door size 813 x 2125mm high	No	2		
	1,6mm Double rebated frames suitable for one brick walls				
98	Frame for door 813 x 2125 mm high	No	1		
	<b>Carried to Summary</b>				

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For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 12</b>				
	<b>PLASTERING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.142) unless otherwise stated				
	<b>SCREEDS</b>				
	<b>Screeds on concrete</b>				
99	30mm thick wood floated on floors and landings	m2	43		
	<b>GRANOLITHIC</b>				
	<b>Untinted Granolithic on concrete</b>				
100	45mm thick finish on floors and landings	m2	2		
	<b>EXTERNAL PLASTER</b>				
	<b>Cement plaster on brickwork</b>				
101	On walls	m2	65		
	<b>INTERNAL PLASTER</b>				
	<b>Cement plaster on brickwork</b>				
102	On walls	m2	130		
103	On narrow widths not exceeding 300mm wide	m2	8		
	<b>Cement plaster on concrete</b>				
104	On projecting and isolated columns and beams	m2			
105	On ceilings	m2			
106	On raking soffits of stairs	m2			
	<b>CORNER PROTECTORS, DIVIDING STRIPS, ETC</b>				
107	Aluminium tile edge strips	m			
108	30 x 3mm Flat section brass dividing strips between different floor finishes	m			
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 74
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 13</b>				
	<b>TILING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.144) unless otherwise stated				
	<b>WALL TILING</b>				
	600 x 600 x 5mm Thick "Johnson Matisse MWB4 Matt White" glazed ceramic wall tiles fixed with 'Tal Gold Star 6' rapid setting tile adhesive to plaster (elsewhere measured) with 2mm wide joints continuous in both directions with joints pointed with 'Tal Fine Epoxy Grout'				
109	On walls	m2	6		
110	On narrow widths not exceeding 300mm width	m2	2		
	<b>FLOOR TILING</b>				
	600 x 600mm x 8mm "Johnson" Ceramic floor tiles on "Tal Goldstar 6" rapid setting tile adhesive bedding on screed and 6mm flush pointed joints with "Tal Fine Epoxy Grout"				
111	On floors	m2	28		
	240x240mm clay floor tiles laid on a smooth, even, dust free surface with tile adhesive grout				
112	On floors	m2			
113	Cut tiles to skirting 100mm high	m	5		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 75
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 14</b>				
	<b>PLUMBING AND DRAINAGE</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.148) unless otherwise stated				
	<b>RAINWATER DISPOSAL</b>				
	<b>Steel rainwater gutters and rainwater pipes</b>				
114	100 x 100 x 0.6mm powder coated steel rainwater gutters and downpipes fixed to roof structure as per manufacturer's specifications	m	18		
115	Extra over 100x 100 x 0.6mm powder coated steel rainwater gutter for stopped end	No	2		
116	Extra over 100 x 100 x 0.6mm powder coated steel rainwater gutter for outlet for 75 x 75mm pipe	No	1		
117	100 x 100mm diameter rainwater pipes	m	4		
118	Extra over 100 x 100mm rainwater pipe for bend	No	2		
119	Extra over 100 x 100mm rainwater pipe for shoe	No	2		
120	Extra over 100 x 100mm rainwater pipe for offsets	No	2		
	<b>Balance Brought Down</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 76
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	<b>SANITARY FITTINGS</b>				
	<b>Vaal or equally approved</b>				
121	Vitreous china "orchid" closed coupled 90 degrees outlet wall hung open rim pan (code 438600) and matching 6 litre pushbutton top dual flush back inlet cistern (code 4386DT) complete with lid, fitment and with bolt-through-the-wall bracket (code 8084Z0)	No	1		
122	Vaal code 7030 Bantam basin, size 340 x 460mm overall, fixed to wall with two tapholes including intergrated overflow and chainstay hole bolted to wall with two 10mm bolts and silled with silicone sealant where basin meets wall or simila approved	No	1		
123	"Vaal" Junior 104deg outlet washdown pan (code: 751300) and matching 6 litre cistern (code: 712034) complete with lid and fitments, and junior seat complete	No	1		
124	Ceramic fireclay 595 x455mm "cameo" oval self rimming vanity basin with one tap and chainstay hole through the centre semi-punched taphole supplied standard without an overflow	No	1		
125	"Vaal Potteries" Orchid paraplegic wall hung WC suite	No	1		
126	Sanitaryware vitreous china sola 510 basin (code: 703700) including 32mm standing overflow tube, chrome plated (code 8630Z0) fixed to wall suing a concealed wall bracket (code 8131z3), and three 10mm bolts(code 844820) and sealed with silicon sealant or equivalent between basin and finished wall surface area or similar approved	No	1		
127	Plexicor president 1700 cast acrylic perspex rectangular bath in opal finished with chromium plated grip handles, overall size 1700 x 750 x 400mm deep	No	1		
128	Pre-assembled steel kitchen sink 1500mm x 535mm, finished with epoxy power	No	1		
	Balance Brought Down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 77
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	<b>WASTE UNIONS ETC</b>				
	<b>"Cobra Watertech" or equal approved</b>				
129	Sink waste (code 316)	No	1		
	<b>TRAPS ETC</b>				
	<b>Dutton Plastic Engineering</b>				
130	Anti vac bottle trap (code DB22A/V)	No	1		
131	Bath trap ( code 40PBC)	No	1		
	<b>uPVC</b>				
132	40 x 40mm flexi rubber waste trap	No	1		
	<b>TAPS, VALVES, ETC</b>				
	<b>SANITARY PLUMBING</b>				
	<b>uPVC soil and vent pipes</b>				
133	40 mm diameter pipe	m	32		
134	50 mm diameter pipe	m	65		
135	110mm Pipe laid in and including trench excavation not exceeding 1m deep	m	30		
	including backfilling with selected granular fill in bedding and filling around pipes				
	<b>Extra over uPVC soil and vent pipes for fittings</b>				
136	40mm junction	No	3		
137	40mm bend	No	2		
138	40 mm Nipple	No	3		
	Balance Brought Down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 78
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
139	50mm bend	No	2		
140	50mm junction	No	3		
141	50mm reducing junction	No	2		
142	110 mm Reducer with anti-syphon horn	No	6		
143	110mm bend	No	3		
144	110 mm Straight pan connector	No	8		
145	110 mm Reducing junction	No	4		
146	Vent cowl and setting in top of 110 mm diameter pipe	No	5		
	Sundries				
147	Testing waste pipe system	Item	1		
	WATER SUPPLIES				
	Class 2 copper pipes with brass compression couplings				
148	22mm Pipes	m	5		
	Extra over class 2, copper pipes for soldered capillary fittings				
149	22mm, fittings	No	8		
	Balance Brought Down				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 79
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>Balance Brought Forward</b>				
	<b>FIRE APPLIANCES ETC</b>				
150	"Everyway" hose reel to comply with SABS 543, complete with 30m rubber hose, chromium plated stop cock, shut-off nozzle and wall bracket	No.	16		
151	4.5kg Dry chemical powder fire extinguisher complete with brackets fixed to wall	No.	16		
	<b>ELECTRIC HOT WATER HEATERS</b>				
	150L electric water heater complying with SABS 151-2002, overall size 1335 x 538mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be wall mounted vertically using supplied wall mounting brackets with 620 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code: GSTP-760) and 15mm pipe work including two 15mm vacuum breakers installed on hot and cold water supply. Installation to include a 15mm 400kPa multi control and expansion relief valve, all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.				
152	150 Litre geyser floor/wall electric water heater	No	6		
	<b>WATER METERS</b>				
	Provide erf connections complete; Includes trench, bedding, backfill, pipe fittings, water meter, saddles marker posts and all material, including work to complete the connection (saddles to main pipe measured elsewhere):	No	6		
	<b>TESTING</b>				
153	Allow for testing of all sanitary plumbing, water supplies and fire services to the satisfaction of the principal agent.	Item	1		
	All defective works are to be taken out and replaced at the contractor's expense and the whole re-tested until found satisfactory.				
	<b>Carried to Summary</b>				

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For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 15</b>				
	<b>GLAZING</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.150) unless otherwise stated				
	<b>SUPPLEMENTARY PREAMBLES</b>				
	<b>Float glass</b>				
	The term "float glass" is used for monolithic annealed glass				
	<b>Laminated glass</b>				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	<b>GLAZING TO STEEL WITH PUTTY</b>				
	<b>6,4mm safety glass</b>				
154	Panes exceeding 0,1 and not exceeding 0,5m2	m2	8		
	<b>TOPS, SHELVES, DOORS, MIRRORS, ETC</b>				
	6mm Silvered float glass mirrors with bevelled and polished edges, drilled four (4) times and countersunk screwed to plugs in wall with 38 mm long screws, fitted with domed chromium-plated cups				
155	600 x 900mm high mirrors	No	1		
	<b>Carried to Summary</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 81
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SECTION NO. 2</b>				
	<b>BUILDING WORKS</b>				
	<b>BILL NO. 16</b>				
	<b>PAINTWORK</b>				
	<b>NOTE:</b>				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjunction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.152) unless otherwise stated				
	<b>PAINTWORK, ETC TO NEW WORK ON</b>				
	<b>ON PLASTER, ETC.</b>				
	<b>Internal Walls</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two PVA (arcrylic) paint</b>				
156	On walls	m2	135		
157	On narrow widths	m2	5		
158	Ceilings.				
	<b>External walls</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two PVA (arcrylic) paint</b>				
159	On walls.	m2	65		
160	On narrow widths.	m2			
	<b>ON CONCRETE</b>				
	<b>Prepare and apply, one coat primer, one coat universal under coat, and two coats exterior quality PVA emulsion paint</b>				
161	On soffits of concrete slabs.	m2			
162	On raking soffits of stairs	m2			
163	On projecting and isolated columns and beams	m2			
	<b>ON FIBRE-CEMENT</b>				
	<b>One coat primer and two coats professional acrylic polyvinyl acetate</b>				
164	Ceilings and cornices, including priming metal cover strips and nailheads	m2	28		
165	On fascias and barge boards	m2	25		
	<b>ON METAL</b>				
	<b>Prepare surface and apply one coat Dulux Duraphos (or equal approved), one coat Dulux Duragrip (or equal approved) and two coat Dulux Silthane Silk enamel (or equal approved)</b>				
166	On door frames.	m2	6		
167	Gates, grilles, burglar screens, balustrades, etc (both sides measured over full flat area)	m2	8		
168	On gutters and downpipes	m	12		
	<b>ON WOOD ETC.</b>				
	<b>Prepare surface and apply one coat Dulux Duragrip (or equal approved) and two coats Dulux Silthane Silk Enamel (or equal approved)</b>				
169	On doors	m2	7		
	<b>Apply one undercoat and one coat high gloss paint.</b>				
170	Back boards of fire extinguishers.	m2			
	<b>ON PLASTER BOARD, HARDBOARD, ETC.</b>				
	<b>Sand down and apply two coats of Woodoc 30 Varnish</b>				
171	On doors.	m2	8		
172	70 mm x 19 mm Meranti skirting with 19 mm quarter round	m			
	<b>Carried to Summary</b>				

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For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SUMMARY PAGE</b>				
1	SITE CLEARANCE	Page	59		
2	EARTHWORKS	Page	60		
3	CONCRETE, FORMWORK AND REINFORCEMENT	Page	62		
4	MASONRY	Page	64		
5	WATERPROOFING	Page	65		
6	ROOF COVERINGS	Page	66		
7	CARPENTRY AND JOINERY	Page	67		
8	CEILINGS,PARTITIONS ETC	Page	68		
9	FLOOR COVERINGS	Page	69		
10	IRONMONGERY	Page	70		
11	METALWORK	Page	72		
12	PLASTERING	Page	73		
13	TILING	Page	74		
14	PLUMBING AND DRAINAGE	Page	75		
15	GLAZING	Page	80		
16	PAINTWORK	Page	81		
	<b>TOTAL SUMMARY PER UNIT</b>				
	<b>96 )</b>		<b>16</b>		

	<b>SCHEDULE OF QUANTITIES</b>	<b>CONTRACT No.</b>			<b>PAGE 83</b>
	For the Construction of Tshikota CRUs	<b>B02/2021-22FY</b>			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>FENCING</b>				
	Provide the amount as indicated for Clear View fence and 2No. 5m sliding steel gates	m	770		-
	<b>SOCIAL AMENITIES</b>				
	<b>Washing lines</b>				
	<i>Wash lines</i>	No.	82		-
	<i>Laundry basins</i>	No.	82		-
	<b>LANDSCAPING</b>				
	<i>Landscaping with all related street furniture</i>	ITEM	1		400,000.00
	<i>Playing area with swings</i>	ITEM	1		250,000.00
	<b>FIRE APPLIANCES ETC</b>				
	"Chubb"				
	"Everyway" hose reel complete with 30m plastic hose, chromium plated stockcock, shutt-off nozzle and wall bracket including all the necessary fittings from the water supply	No.	118		-
	Chubb' 4,5 kg DCP fire extinguisher on and including No 02401 hardwood backboard plugged, screwed and pelleted to wall	No.	118		-
	<b>Carried to summary</b>				

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 84
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>ELECTRICAL WORKS (MV SUPPLY, LV RETICULATION &amp; SERVICE CONNECTIONS)</b>				
	<b>SCHEDULE 1</b>				
	<b>PRELIMINARY AND GENERAL</b>				
<b>1</b>	<b>SITE ESTABLISHMENT</b>				
	<b>Facilities for Contractor</b>				
1.1	Office and Storage	sum	1		
1.2	Ablution and Latrine Facilities	sum	1		
1.3	Water and Electricity	sum	1		
1.4	Site Clearing	sum	1		
1.5	Contractor's Yard Fencing				
1.6	Contractor's Plant, Equipment & Tools (establish, maintain and remove)	sum	1		
1.7	Management & Programme for the works (appointment of a Supervisor)	sum	1		
<b>2</b>	<b>TIME RELATED ITEMS</b>				
2.1	Security (Monthly)	sum	5		
2.2	Insurance	sum	1		
<b>3</b>	<b>CONTRACT RELATED ITEMS</b>				
3.1	Local Labour (monthly)	sum	5		
<b>4</b>	<b>COMMISSIONING</b>				
4.1	Commissioning & Provision of Test certificates	sum	1		
<b>5</b>	<b>Health &amp; Safety (OHS Act, Construction Regulations and Eskom Safety Specifications)</b>				
5.1	Personal protective equipment :	sum	1		
5.2	Compliance with safety plan & safety file	sum	1		
5.3	Health & Safety Training	sum	1		
5.4	Legal appointments in terms of the OHS Act and Regulations	sum	1		
5.5	Other Health and Safety items deemed necessary to comply to OHS Act, Regulations and Eskom / Makhado Municipality Safety specifications.	sum	1		
<b>6</b>	<b>Environmental Management</b>				
6.1	Compliance to Environmental Management Plan	sum	1		
<b>7</b>	<b>General</b>				
7.1	Completion and submission of the Expanded Public Works Programme Report	sum	1		
7.2	Provide for the repair to damaged water reticulation pipes and other concealed services.	sum	1		
	<b>TOTAL : SCHEDULE 1</b>				
	<b>CARRIED TO SUMMARY</b>				
				<b>TOTAL</b>	

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 85
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	<b>SCHEDULE 2</b>				
	<b>MATERIAL, EQUIPMENT AND INSTALLATION</b>				
2.1	<b>MINIATURE SUBSTATIONS</b>				
	<b>To comply with Makhado Municipality specifications complete with all labels and locks:</b>				
	<b>a) 315kVA 22kV/420V type B miniature substation</b>				
	i) Supply	no	1		
	ii) Install	no	1		
	<b>b) 315kVA minisub precast plinths to Eskom Spec specifications</b>				
	i) Supply	no	1		
	ii) Install	no	1		
	<b>To comply with Makhado Municipality specifications complete with all labels and locks:</b>				
	<b>a) Ground Mounted Meter Kiosk</b>				
	i) Supply	no	1		
	ii) Install	no	1		
	<b>b) Ground Mounted Meter Kiosk Plinth</b>				
	i) Supply	no	1		
	ii) Install	no	1		
	<b>c) Ring Main Unit - T3, to Eskom spec SAP No: 0180269</b>				
	specifications				
	i) Supply	no	0		0.00
	ii) Install	no	0		0.00
	<b>d) CT/VT Unit to Eskom spec SAP No: 0175942</b>				
	i) Supply	no	0		0.00
	ii) Install	no	0		0.00
	<b>e) CT/VT Unit Plinth to Eskom spec</b>				
	i) Supply	no	0		0.00
	ii) Install	no	0		0.00
	<b>Carried Forward</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 86
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Brought Forward				
2.2	<b>CABLES AND CONDUCTORS</b>				
	To comply with Eskom / Makhado Municipality specifications for cables and conductors				
	<b>a) Medium voltage cable - 22kV, 95 mm<sup>2</sup> (XLPE) 3-core</b>				
	Cu as per Makhado Municipality / Eskom Specifications				
	i) Supply	m	150		
	ii) Install	m	150		
	<b>b) Medium voltage cable - 185 mm<sup>2</sup> (XLPE) 3-core</b>				
	Cu as per Eskom Specifications				
	i) Supply	m	0		
	ii) Install	m	0		
	<b>c) 70 sq mm Bare Copper Earth wire</b>				
	i) Supply	m	150		
	ii) Install	m	150		
	<b>Low-voltage cables:</b>				
	600/1000V grade cables as specified with integral earth conductors, [Part of cable armouring] bearing SABS mark of approval.				
	<b>a) 16mm<sup>2</sup> 2-core PVC/PVC/SWA/PVC cable with 2 x 1.5mm<sup>2</sup> comms cores</b>				
	i) Supply	m	4830		
	ii) Install	m	4830		
	<b>b) 16mm<sup>2</sup> 4-core PVC/PVC/SWA/PVC cable cable for streetlight (R,BL, Y/G not R.Y,B,BL)</b>				
	i) Supply	m	800		
	ii) Install	m	800		
	<b>c) 50mm<sup>2</sup> 4-core PVC/PVC/SWA/PVC cable</b>				
	i) Supply	m	Rate Only		
	ii) Install	m	Rate Only		
	<b>d) 70mm<sup>2</sup> 4-core PVC/PVC/SWA/PVC cable</b>				
	i) Supply	m	520		
	ii) Install	m	520		
	<b>e) 120mm<sup>2</sup> 4-core PVC/PVC/SWA/PVC cable</b>				
	i) Supply	m	Rate Only		
	ii) Install	m	Rate Only		
	<b>f) 6 sq mm Bare Copper Earth wire</b>				
	i) Supply	m	5630		
	ii) Install	m	5630		
	<b>g) 35 sq mm Bare Copper Earth wire</b>				
	i) Supply	m	520		
	ii) Install	m	520		
	Carried Forward				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 87
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Brought Forward				
	<b>h) 185mm<sup>2</sup> 4-core PVC/PVC/SWA/PVC cable</b>				
	i) Supply	m	0		
	ii) Install	m	0		
	<b>j) 240mm<sup>2</sup> 4-core PVC/PVC/SWA/PVC cable</b>				
	i) Supply	m	0		
	ii) Install	m	0		
	<b>k) 300mm<sup>2</sup> 4-core PVC/PVC/SWA/PVC cable</b>				
	i) Supply	m	0		
	ii) Install	m	0		
	<b>l) 16 mm<sup>2</sup> 3-core Cu,SWA low-voltage power cable for streetlight (R,BL, Y/G not R.Y,B,BL)</b>				
	i) Supply	m	0		
	ii) Install	m	0		
	<b>m) 1.5 mm<sup>2</sup> 3-core Cu low-voltage cable for photocell control</b>				
	i) Supply	m	50		
	ii) Install	m	50		
	Carried Forward				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 88
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Brought Forward				
2.3	CABLE TERMINATIONS AND JOINTS				
	All terminations and joints to be complete with lugs, ferrules, glands, shrouts, bolt, spring washers, nuts number tag and all material needed to complete.				
	a) MV-Terminations for 95 mm <sup>2</sup> 3-core, Cu, XLPE				
	i) Supply	no	8		
	ii) Install	no	8		
	b) MV-Joints for 95 mm <sup>2</sup> 3-core, Cu, XLPE, PVC				
	i) Supply	no	Rate Only		
	ii) Install	no	Rate Only		
	c) MV-Terminations for 185 mm <sup>2</sup> 3-core, Cu, XLPE				
	i) Supply	no	0		
	ii) Install	no	0		
	d) MV-Joints for 185 mm <sup>2</sup> 3-core, Cu, XLPE, PVC				
	i) Supply	no	0		
	ii) Install	no	0		
	e) Indoor LV-Terminations for 16mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	i) Supply	no	16		
	ii) Install	no	16		
	f) Indoor LV-Terminations for 35mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	i) Supply	no	0		
	ii) Install	no	0		
	g) Indoor LV-Terminations for 70mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	i) Supply	no	24		
	ii) Install	no	24		
	h) Indoor LV-Terminations for 120mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	i) Supply	no	0		
	ii) Install	no	0		
	i) Indoor LV-Terminations for 185mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	i) Supply	no	0		
	ii) Install	no	0		
	k) Indoor LV-Terminations for 240mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	SWA, PVC power cable for street lighting				
	i) Supply	no	0		
	ii) Install	no	0		
	l) Indoor LV-Terminations for 300mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	SWA, PVC power cable for street lighting				
	i) Supply	no	0		
	ii) Install	no	0		
	m) Indoor LV-Terminations for 300mm <sup>2</sup> x 4C, Cu,PVC/PVC/SWA/PVC Cable				
	SWA, PVC power cable for street lighting				
	i) Supply	no	0		
	ii) Install	no	0		
	n) Indoor LV-Terminations for 16mm <sup>2</sup> x 2C, Cu,PVC/PVC/SWA/PVC Cable				
	i) Supply	no	276		
	ii) Install	no	276		
	Carried Forward				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 89
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Brought Forward				
	<b>p) LV ends for 1.5 mm² 3-core Cu, PVC, SWA,PVC power cable</b>				
	i) Supply	no	150		
	ii) Install	no	150		
<b>2.4</b>	<b>STREET LIGHTING</b>				
	<b>a) BekaLedlume or equivalent street light luminaire, complete wit 35WLED, 5A SP MCB, wired and including outreach arm steel pole mounted</b>				
	i) Supply	no	50		
	ii) Install	no	50		
	<b>b) Ground Control boxes including Photocells and 10A breakers for control of street lights</b>				
	i) Supply	no	4		
	ii) Install	no	4		
	<b>c) 7.2m galvanized steel pole as per Makhado Municipality specification</b>				
	i) Supply	no	50		
	ii) Install	no	50		
<b>2.5</b>	<b>EXCAVATIONS MV</b>				
	<b>Excavations to be 1m x 0.6m x running meter all backfill material to be sift soil and compacted to 90%MOD for trenches and 95%MOD for road crossings, prove of test to be provided.</b>				
	<b>a) Pickable soil</b>				
	i) Excavate and backfill	m³	20		
	<b>b) Soft rock</b>				
	Excavate and backfill	m³	40		
	<b>c) Hard rock</b>				
	i) Excavate and backfill	m³	40		
	<b>d) Drilling for sleeves under road surfaces (including excavation drill hole and sleeve)</b>				
	i) Drill 160mm dia. for road crossing	No	4		
	<b>e) Excavation of pole holes as specified - Lighting</b>				
	i) Excavate and backfill	no	2		
	<b>f) Imported Material (soft soil) for backfill</b>				
	i) Supply	m³	100		
	ii) Backfill	m³	100		
	<b>g) Install 160mm sleeve for road crossing excavation excluded</b>				
	i) Supply	m	20		
	ii) Install	m	20		
	<b>h) Install danger tape 300mm above all MV and LV feeder cables</b>				
	i) Supply	m	150		
	ii) Install	m	150		
	Carried Forward				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 90
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Brought Forward				
2.6	EXCAVATIONS LV CABLE				
	Excavations to be 0.6m x 0.45m x running meter				
	all backfill material to be sift soil and compacted to 90%MOD for trenches and 95%MOD for road crossings, prove of test to be provided.				
	a) Pickable soil, by hand and machine				
	i) Excavate, backfill and compact	m³	43		
	b) Soft rock, machine and pneumatic equipment				
	i) Excavate, backfill and compact	m³	86		
	c) Hard rock, blasting only				
	i) Excavate, backfill and compact	m³	86		
	d) Imported Material (soft soil) for backfill				
	i) Supply	m³	216		
	ii) Install	m³	216		
2.7	SERVICE CONNECTIONS				
	As per specifications, complete with circuit breakers & meters installed ,				
	a) SPU , 3CR12 Metering kiosk, complete with plinth				
	i) Supply	no	24		
	ii) Install	no	24		
	b) Kiosk Lables engrave (50mm lettering)				
	i) Supply	no	24		
	ii) Install	no	24		
	c) Eskom Master locks for Kiosk boxes				
	i) Supply	no	24		
	ii) Install	no	24		
	Carried Forward				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 91
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Brought Forward				
2.8	OTHER EQUIPMENT(SPECIFY)				
	a) Overhead Structures				
	MV Overhead to cable End Structure complete with all accessories				
	i) Supply	no	1		
	ii) Install	no	1		
	LV Ground Mounted 9-Way Distribution Kiosk on concrete plinth				
	As per SLD complete with breakers				
	i) Supply	no	3		
	ii) Install	no	3		
	b) Circuit breakers for miniature substations				
	complete with tails				
	a) 300 A 3-phase 25 kA				
	i) Supply	no	0		
	ii) Install	no	0		
	c) 200 A 3-phase 25 kA				
	i) Supply	no	0		
	ii) Install	no	0		
	d) 150 A 3-phase 25 kA				
	i) Supply	no	3		
	ii) Install	no	3		
	e) 100 A 3-phase 25 kA				
	i) Supply	no	0		
	ii) Install	no	0		
	f) 80 A 3-phase 25 kA				
	i) Supply	no	0		
	ii) Install	no	0		
2.9	ELECTRICITY SUPPLY & CONNECTION				
	Provision for application, facilitation and installation of		sum		
	permanent electricity supply to development from Municipality				
3.0	TEST and COMMISSIONING				
	Test and Commissioning of Entire reticulation		sum		
	Material and Installation				
	Carried forward to Summary of Schedules				

	<b>SCHEDULE OF QUANTITIES</b>	<b>CONTRACT No.</b>			<b>PAGE 92</b>
	For the Construction of Tshikota CRUs	<b>B02/2021-22FY</b>			
<b>Description</b>	<b>Tshikota CRU Electrical Works: Power Supply External Reticulation and Service Connections</b>				
<b>Schedule:</b>	<b>Summary</b>				
<b>Summary of Schedules</b>					
<b>Schedule No.</b>	<b>Description</b>				<b>Amount ( R )</b>
1	Preliminary and General				
2	MV & LV Internal Bulk Installation				
<b>Sub-Total A</b>					
Provision Allowance for Contingencies (10% of Sub-Total A)					
<b>Sub-Total B</b>					
Provision Allowance for Contract price adjustment(10% of Sub-Total B)					
	<b>Sub-Total C</b>				
<b>Value Added Tax at 15%</b>					
<b>TOTAL SUMMARY CARRIED TO MAIN SUMMARY</b>					

	<b>SCHEDULE OF QUANTITIES</b>	<b>CONTRACT No.</b>			<b>PAGE 93</b>
	For the Construction of Tshikota CRUs	<b>B02/2021-22FY</b>			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
1	Excavate, supply, lay, backfill, test and commission (inclusive of bends, tees, valves, valve boxes, concrete thrust blocks, fire hydrants, hard and rock excavations)				
1.1	75mm uPVC Class 12	m	878.00		
1.2	Provision for Metered House connections	No.	118.00		
2	<b>SUBTOTAL (Excluding VAT)</b>				
3	<b>ADD 15% VAT</b>				
4	<b>TOTAL SUMMARY CARRIED TO MAIN SUMMARY</b>				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 94
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Roads and Stormwater				
1	Clear road reserve to subgrade level, prepare subgrade, import suitable subbase and base material and compact as per specifications and lay asphalt paving kerbing)				
1.1	Asphalt surfaced 6m wide road	km	0.60		
1.2	Excavate, supply, lay and backfill reinforced precast concrete concrete stormwater pipes 450mm diameter (inclusive of catchpits)	m	1,600.00		
2	SUB-TOTAL				
	TOTAL SUMMARY CARRIED TO MAIN SUMMARY				

SCHEDULE OF QUANTITIES		CONTRACT No.			PAGE 95
For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
1	Excavate, supply, lay, backfill, test and commission (inclusive of house connections, clay, hard and rock excavations, importation of suitable bedding and backfilling material)				
1.1	160mm uPVC Class 34	m	1070		
1.2	Supply, install and test precast concrete manholes	No	22		
1.3	Provision for block connection	No	78		
2	SUBTOTAL (Excluding VAT)				
3	ADD 15% VAT				
4	TOTAL SUMMARY CARRIED TO MAIN SUMMARY				

	<b>SUMMARY SCHEDULE OF QUANTITIES</b>	<b>CONTRACT No.</b>		<b>PAGE 96</b>
	For the Demolition and Construction of Tshikota CRUs	<b>B02/2021-22FY</b>		
	<b>SUMMARY OF QUANTITIES</b>			
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>Page No.</b>	<b>No. of units</b>	<b>AMOUNT</b>
1	<b>PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS</b>	1		
2	<b>PRELIMINARY AND GENERAL - TIME RELATED OBLIGATIONS</b>	2		
3	<b>PRELIMINARY AND GENERAL - PROVISIONAL SUMS</b>	3		
4	<b>PRELIMINARY AND GENERAL - DAYWORKS</b>	4		
2	<b>DEMOLITION</b>	5		
3	<b>TYPE A (2 BED double storey)</b>	10	96.00	
4	<b>TYPE C (2 BED single storey)</b>	35	6.00	
5	<b>TYPE D (1 BED single storey)</b>	59	16.00	
6	<b>EXTERNAL WORKS</b>	83		
7	<b>ELECTRICAL</b>	84		
8	<b>WATER</b>	93		
9	<b>ROADS AND STORMWATER</b>	94		
10	<b>SEWER</b>	95		
	<b>SUB-TOTAL 1</b>			
11	<b>Add 10% Contingency</b>			
	<b>Sub Total 2</b>			
	<b>Add VAT @ 15%</b>			
	<b>Total Summary</b>			