SCHEDULE OF QUANTITIES		ACT No.:	SECTION No.:	PAGE 1
FOR THE CONSTRUCTION OF TSHIKOTA CRU's	B02/20	21-22FY	A1	
DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE	RELATED OBL	IGATIONS		
Contractual Requirements:				
Fixed charge contractual requirements.	Sum	1.00		
Value related contractual requirements.	Sum	1.00		
Facilities for Engineer:				
Furnished office - 1 No.	No	1.00		
Name boards	Sum	2.00		
Provision of survey equipment.	Sum			
Essilistics for Constructory				
	Sum	1.00		
		1.00		
·				
		1.00		
_	_	+		
		+		
		+		
		1.00		
-				
Plant	Sum	1.00		
Materials on site storage and protection.	Sum	1.00		
Accommodation of traffic.	Sum			
Pomoval of Sito Establishment	Sum	1.00		
Removal of Site Establishment.	Suili	1.00		
Occupational H&S				
Provision of Health and Safety	Sum	1.00		
СРАР	0/2		10.00	
91.74	70		10.00	
PRELIMINARY AND GENERAL - FIXED CHARGE AND V	ALUE RELAT	ED		
	PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE I Contractual Requirements: Fixed charge contractual requirements.  Value related contractual requirements.  Facilities for Engineer: Furnished office - 1 No. Name boards Provision of survey equipment.  Facilities for Contractor: Offices and storage sheds Workshops Laboratories Living accommodation Ablution and latrine facilities Tools and equipment Water supplies, electric power and communications Dealing with water Access Plant Materials on site storage and protection. Accommodation of traffic.  Removal of Site Establishment:  Occupational H&S Provision of Health and Safety  PRELIMINARY AND GENERAL - FIXED CHARGE AND V	PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBL Contractual Requirements: Fixed charge contractual requirements. Value related contractual requirements.  Sum Value related contractual requirements.  Facilities for Engineer: Furnished office - 1 No. No Name boards Provision of survey equipment.  Sum  Facilities for Contractor: Offices and storage sheds Workshops Sum Laboratories Living accommodation Ablution and latrine facilities Tools and equipment Water supplies, electric power and communications Dealing with water Access Plant Materials on site storage and protection. Accommodation of traffic. Sum  Removal of Site Establishment: Sum  CCCUpational H&S Provision of Health and Safety  CPAP  %	PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS  Contractual Requirements.  Fixed charge contractual requirements.  Value related contractual requirements.  Facilities for Engineer:  Furnished office - 1 No.  No 1.00  Name boards  Sum 2.00  Provision of survey equipment.  Sum  Facilities for Contractor:  Offices and storage sheds  Sum 1.00  Workshops  Laboratories  Sum  Living accommodation  Ablution and latrine facilities  Tools and equipment  Sum 1.00  Water supplies, electric power and communications  Dealing with water  Access  Plant  Materials on site storage and protection.  Sum 1.00  Accommodation of traffic.  Sum 1.00  Occupational H&S  Provision of Health and Safety  PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED	PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED OBLIGATIONS  Contractual Requirements: Fixed charge contractual requirements. Value related contractual requirements. Sum 1.00  Facilities for Engineer: Furnished office - 1 No. Name boards Sum 2.00 Provision of survey equipment. Sum Facilities for Contractor: Offices and storage sheds Sum 1.00  Facilities for Contractor: Offices and storage sheds Sum 1.00  Ablution and latrine facilities Sum 1.00  Water supplies, electric power and communications Sum 1.00  Dealing with water Access Plant Materials on site storage and protection. Accommodation of traffic.  Sum 1.00  Cocupational H&S Provision of Health and Safety  PRELIMINARY AND GENERAL - FIXED CHARGE AND VALUE RELATED

	SCHEDULE OF QUANTITIES	CONTR	ACT No.:	SECTION No.:	PAGE 2
	FOR THE CONSTRUCTION OF TSHIKOTA CRU's	B02/20	21-22FY	A2	
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
0	PRELIMINARY AND GENERAL - TIME RELATED OBLIGAT	TIONS	1	T .	
2.1	Contractual Requirements:				
2.1.1	Time related contractual requirements.	Month	12.00		
2.2	Facilities for Engineer:				
2.2.1	Furnished office - 1 No.	Month	12.00		
2.2.2	Survey assistants and material.	Month			
2.3	Facilities for Contractor:				
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		
2.4	Supervision for Duration of the Contract:	Month	12.00		
2.7	Environmental Management:	Month	12.00		
2.8	CPAP	%		10.00	
	PRELIMINARY AND GENERAL - TIME RELATED OBLIGAT of quantities Page 96)	I TIONS (carri	ed to sumr	nary schedule	

	SCHEDULE OF QUANTITIES	CONT	RACT No.:	SECTION No.:	PAGE 3
	FOR THE CONSTRUCTION OF TSHIKOTA CRU's	B02/2	021-22FY	A3	
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
0	PRELIMINARY AND GENERAL - PROVISIONAL SUMS				
3.1	Community Liaison Officer:				
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
3.3	3.3 Training:				
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		
3.4	Relocation/Protection of Existing Services:				
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		
3.5	Routine Tests required by Engineer:				
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		
3.6	Occupational Health and Safety Audits:				
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		
3.7	Student Training				
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		
3.8	СРАР	%		10.00	
	PRELIMINARY AND GENERAL - PROVISIONAL SUMS (ca Page 96)	rried to sumr	mary schedule	I of quantities	

	SCHEDULE OF QUANTITIES	CONTR	RACT No.:	SECTION No.	PAGE 4
	FOR THE CONSTRUCTION OF TSHIKOTA CRU's		B02/2021-22FY		
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNTS
0	PRELIMINARY AND GENERAL - DAYWORKS				
4.1	Labour - Normal Working Hours: [Provisional]				
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
4.2	Materials: [Provisional]				
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		
4.3	Plant - Heavy Equipment: [Provisional]				
4.5	Frant - Heavy Equipment. [FTOVISIONAL]				
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 ≤ 1.5 m3.	hr			Rate Only
4,3,5	Front end loader - bucket capacity ≤ 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
4.4	Plant - Small Equipment: [Provisional]				
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
4.5	СРАР	%		10.00	
	PRELIMINARY AND GENERAL - DAYWORKS (carried to s	ummary sch	edule of qua	ntities Page	

	SCHEDULE OF QUANTITIES	CONTR	RACT No.	SECTION No.	PAGE 5
	For the Demolition of Tshikota Hostels	B02/20	21-22FY	1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Section 1				
	BILL NO. 1				
	DEMOLITIONS				
	NOTE:				
	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				
	SUPPLEMENTARY PREAMBLES				
	NOTE:				
	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.				
	Carried to Collection				-

	SCHEDULE OF QUANTITIES	CONTR	RACT No.	SECTION No.	PAGE 6
	For the Demolition of Tshikota Hostels	B02/20	21-22FY	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 cubboard units and other	m3	156		
	areas				
	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	CONTR	RACT No.	SECTION No.	PAGE 7
	For the Demolition of Tshikota Hostels	B02/20	21-22FY	1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Taking out and removing gates				
9	Security gates 4500 x 2250mm high	No	2		
		Mode   Mode			
	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				

	SCHEDULE OF QUANTITIES	CONTR	ACT No.	SECTION No.	PAGE 8
	For the Demolition of Tshikota Hostels	B02/20	21-22FY	1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Concrete Aprons				
16	Hake -up and removed concrete aprons around the buildings	m2	721		
	Breaking Brick walls				
17	Demolish brick walls both one brick wall and half brick wall	m2	2308		
	Section 2				
	SITE CLEARING				
18	Grub and clear site of all grass,shrubs and trees	ha	2.40		
	OVERHAUL				
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		
	Carried to Collection				

	SCHEDULE OF QUANTITIES	CONTF	RACT No.	SECTION No.	PAGE 9
	For the Demolition of Tshikota Hostels	B02/20	21-22FY	1	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SUMMARY FOR DEMOLITIONS				
	COLLECTION				
	Total BROUGHT FORWARD from Page 5				
	Total BROUGHT FORWARD from Page 6				
	Total BROUGHT FORWARD from Page 7				
	Total BROUGHT FORWARD from Page 8				
	Carried to Summary of schedule of quantities Page 96				

	SCHEDULE OF QUANTITIES	(	CONTRACT	No.	PAGE 10
	For the Construction of Tshikota CRUs	I	302/2021-2	2FY	
EM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	TYPE A				
	2 Bed Double Storey				
	2 Ded Double Stoley				
	SECTION NO. 1				
	EXTERNAL WORKS		+		
	BILL NO. 1				
	SITE CLEARANCE ETC				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	Treambles to the Model Freambles Torming 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 Summplentary Preambles to Model Preambles				
	will be granted				
	Will be granted		2250		
	(CPAP WORK GROUP NO.104) unless otherwise stated				
	1	O.104) unless otherwise stated			
	SITE CLEARANCE ETC				
	Site clearance:				
1	Digging up and removing rubbish, debris, vegetation, hedges,	m2	2250		-
	shrubs and trees not exceeding 200mm girth, bush,including				
	grubbing up roots, filling up holes and compacting to 90% MOD				
	ASSHTO density				
2	Stripping average 150mm thick layer of top soil and stockpiling on site		507		_
	Suppling average 150mm thick layer of top soil and stockpling off site	m	307		-
	REMOVAL OF TREES ETC				
	Taking out and removing, grubbing up roots and filling in holes				
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2		-
4	Tree stump exceeding 500mm and not exceeding 1000mm	No	2		-
	girth				
	Cutting down and removing, grubbing up roots and				
	filling in holes				
5	Hedge exceeding 2m and not exceeding 3m high	m			
6	Tree exceeding 200mm and not exceeding 500mm girth	No			
	Tree exceeding 500mm and not exceeding 1000mm girth	No			
	Tree exceeding 1000mm and not exceeding 1500mm girth	No			
9	Tree exceeding 1500mm and not exceeding 2000mm girth	No			
	Carried to Summary	/l			-

	SCHEDULE OF QUANTITIES		CONTRACT	PAGE 11	
For the Construction of Tshikota CRUs		B02/2021-22FY			
EM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	BUILDING WORKS				
	BILL No. 2				
	EARTHWORKS (PROVISIONAL)				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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 orSummplentary Preambles to Model Preambles				
	will be granted				
	EXCAVATION, FILLING, ETC				
	EXCAVATION, FILLING, ETC OTHER THAN BULK				
	Excavation in earth not exceeding 2m deep				
	Reduced levels under floors	m <sup>3</sup>			
11	Trenches	m3	50		
	Extra over trench and hole excavations in earth for excavation in				
12	Soft rock	m3	2		
13	Hard rock	m3	1		
	Balance brought down				
	Balance brought down	<u> </u>	_		

	SCHEDULE OF QUANTITIES	C	PAGE 12		
	For the Construction of Tshikota CRUs	В			
EM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
	-				
	Extra over all excavations for carting away				
14	Surplus material from excavations and/or stock piles on site to	km/m <sup>3</sup>	25		
	a dumping site to be located by the contractor				
	Risk of collapse of excavations				
	Sides of trench and hole excavations not exceeding 1,5m deep	m2	30		
16	Sides of trench and hole excavations exceeding 1,5m deep	m2			
	Keeping excavations free of water				
	Allow for keeping all excavations free of water and mud	Item	1		
	. •				
	FILLING ETC				
	CE filling cumplied by the contractor composted to 00% Med. AASUTO density				
	G5 filling supplied by the contractor compacted to 98% Mod AASHTO density	ma 7	18		
	Under floors, steps, pavings etc	m3	10		
	Prescribed density tests on filling	M.			
19	"Modified AASHTO Density" test	No	6		
	<b>5</b> (1.50)				
	Earth filling obtained from the excavations and/or prescribed stock				
	piles on site, compacted to 93% Mod AASHTO density				
	Over site	m3			
	Under floors, steps, pavings, etc	m3			
22	Backfilling to trenches, holes, etc	m <sup>3</sup>			
	Compaction of surfaces				
	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			
	Prescribed density tests on filling				
24	"Modified AASHTO Density" test	No			
	SOIL POISONING				
	Soil insecticide in accordance with SANS 5859				
25	Under floors etc, including forming and poisoning shallow	m2	125		
	furrows against foundation walls etc, filling in furrows and				
	ramming				
26	To bottoms and sides of trenches etc	m2	212		
20					

	SCHEDULE OF QUANTITIES	CC	NTRACT	No.	PAGE 13		
	For the Construction of Tshikota CRUs	B02/2021-22FY					
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT		
	SECTION NO. 2						
	BUILDING WORKS						
	BILL No. 2						
	CONCRETE, FORMWORK AND REINFORCEMENT						
	NOTE:						
	The Bidder must read each description, study the "specification of materials, methods to be						
	used, throughout this bills of quantities in conjuction 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						
	CONCRETE						
	(00.00111.1.0						
	(CPAP Work Group No. 110)						
	SUBSTRUCTURE						
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES						
	15MPa/20mm concrete						
27	Surface blinding under footings and bases	m3					
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES						
	30MPa/19mm concrete						
	Foundations	m3	50		-		
29	Surface beds cast in panels on waterproofing (measured	m3	75		-		
	elsewhere)						
	REINFORCED CONCRETE						
	30MPa/20mm concrete		1				
	Slabs, including beams and inverted beams	m3	1				
	Stairs, including landings, beams and inverted beams	m3					
32	Columns	m3					
			1				
	TEST CUBES						
33	Making and testing 150 x 150 x 150mm concrete strength test	No	5		-		
	cube (Provisional)						
	Balance brought down				-		

	SCHEDULE OF QUANTITIES		NTRACT		PAGE 14
	For the Construction of Tshikota CRUs		<u>3/2020-2</u>		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				-
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float/steel trowel				
	Surface beds, slabs, etc	m2			
- 57	Ourrace beds, slabs, etc	1112			
	Finishing top surfaces of concrete smooth with a power float				
	Surface beds, slabs, etc	m2			
	Core Drill				
	Core drill through 250mm thick reinforced concrete				
	slab,100mm diameter.	No			
	FORMWORK				
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	ROOGITI ONINWORK (BEOKLE OF ACCORACT III)				
	(CPAP Work Group No. 111)				
	Book from a Life 21 or				
	Rough formwork to sides	m 7	00		
	Beams	m3	28		-
პგ	Columns	m <sup>3</sup>			
	SMOOTH FORMWORK (DEGREE OF ACCURACY III)				
	Smooth formwork to sides		1		
	Beams				
	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	45		_
	Edges, fiscis, chas and reveals not exceeding soonin high or wide	111	73		
	MOVEMENT JOINTS ETC				
	Isolation joints				
41	Isolation joint in slabs 10mm wide sealed with and including	m	20		-
	polyurethane sealant				
	Slip joints		- 40		
42		m	13		-
	brick surfaces not exceeding 300mm wide				
	REINFORCEMENT (PROVISIONAL)				
	(CPAP Work Group No. 114)				
	C41				
	Various diameter bars Mild Steel Bars				-
		1	1		
	8mm	Į.			-
	10mm	τ	1		-
	High tensil steel bars				
	10mm	t			
	12mm	t	3		-
	16mm	t			-
	20mm	t			_
	25mm	t 2 - t 2 - t 3 - m2 285 - m2			
$\longrightarrow$	Z.JIIIII	l .	3		-
	Steel mesh reinforcement				
	Type 245 fabric reinforcement in brick walls with and including	m2	285		-
	butterfly ties at every fourth course		İ		
45	Fabric reinforcement in concrete surface beds, slabs, etc.	m2			
	PRECAST CONCRETE				
	Standard concor or equal pre-stressed concrete lintel bedded In mortar and				
	extending not less than 225mm on either side of opening				
	Precast Lintels	DRK (DEGREE OF ACCURACY III)  to sides  and reveals not exceeding 300mm high or wide  m			
47	110 x 75mm Lintels in lengths not exceeding 3m	m			
	Carried to Summary		<u> </u>		-
		1	1	l	1

	SCHEDULE OF QUANTITIES	CO	NTRACT	No.	PAGE 15
	For the Construction of Tshikota CRUs	B0:	2/2021-2	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO: 3				
	MASONRY				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	,				
	BRICKWORK				
	IN FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar				
	115mm brick walls.	m2	25		-
49	230mm brick walls.	m2			
	IN SUPERSTRUCTURE				
	Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar				
	115mm brick walls.	m2	65		
51	115mm brick walls in beam filling.	m2	65		
52	230mm brick walls.	m2	312		
	Brickwork reinforcement				
53	75mm Wide reinforcement built in horizontally	m	455		-
	150mm Wide reinforcement built in horizontally	m	1520		-
55	12mm Bitumen impregnated fibre board built in vertically between brickwork and	m2	15		-
	concrete surface bed				
	Balance brought down				-

	SCHEDULE OF QUANTITIES	COI	NTRACT	No.	PAGE 16
	For the Construction of Tshikota CRUs	B02	2/2021-2	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				-
	Turning pieces				
56	110mm Wide turning piece to lintels etc	m	65		•
	Galvanised hoop iron cramps, ties, etc				
			0.5		
5/	4mm Diameter roof tie 2m girth bent double with one end	No	95		-
	fixed to timber and other end built into brickwork				
	Carried to Summary				•

SE BU BIL WA NO The use obli	For the Construction of Tshikota CRUs  ESCRIPTION  ECTION NO. 2  UILDING WORKS  ILL NO. 4  ATERPROOFING  OTE:  The Bidder must read each description, study the "specification of materials, methods to be sed, throughout this bills of quantities in conjuction with and in the context of the oligations, the Model Preambles for Trades (2008 Edition) and any supplementary reambles to the Model Preambles forming part of these Bills of Quantities  O claim arising from brevity of description of items fully described in the said Model	UNIT	02/2021-2 QNTY	2FY RATE	AMOUNT
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	reambles for Trades or Supplementary Preambles to Model Preambles				
WIII	II be granted				
(05	PDAD WORK CROLID NO 400\lass attached				
(CF	PAP WORK GROUP NO.120) unless otherwise stated				
DA	AMPPROOFING OF WALLS AND FLOORS				
On	ne layer of 375 micron"Tarkon or equal approved" DPC embossed				
da	amp proof course				
58 ln v	walls	m2	18		-
On	ne layer of 250 micron "Tarkon or equal approved"				
	unplas USB Green waterproof sheeting sealed at				
lap	ps with " Gunplas Pressure Sensitive Tape"				
59 Und	nder surface beds	m2	325		-
60 On	n bottoms and sides of ground beams	m2	165		-
	DINT SEALANTS ETC				
	Compriband" bitumen impregnated foam plastic				
	int sealing strips				
	x 10mm sealant in isolation joint	m	65		-
62 25x	ix20mm In joints between walls	m			
	Carried to Summary	'			-

	SCHEDULE OF QUANTITIES	C	ONTRACT	No.	PAGE 18
	For the Construction of Tshikota CRUs		B02/2021-22FY		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 5				
	ROOF COVERINGS ETC				
	NOTE:				
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	used, throughout this bills of quantities in conjuction with and in the context of the				
	obligations, the Model Preambles for Trades (2008 Edition) and any supplementary				
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	No claim arising from brevity of description of items fully described in the said Model	1			
	Preambles for Trades or Supplementary Preambles to Model Preambles				
	will be granted				
	(CPAP WORK GROUP NO.124) unless otherwise stated				
	PROFILED METAL SHEETING AND ACCESSORIES				
	Roof coverings				
	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				
	Tariors with traces (clocwriers specified) at sooning centres an to original a designs				
63	On roofs not exceeding 25 degrees pitch	m2	186		-
64	Standard head wall flashing 185mm girth	m	12		-
	· ·				
	ROOF AND WALL INSULATION				
	Carried to Summary				-

For the Construction of Tshikota CRUs  BECRTION 0. 2  SULDING WORK SULDING WORK SULLING ON  CARPENTRY AND JOINERY NOTE:  The Budder must read each description, study the "specification of materials, methods to be used, throughout this bill of quantities in conjuction with and in the context of the obligators, the Model Personshies for Trades (2006 Edition) and any supplementary Personshies to the Model Personshies forming part of these Bills of Quantities  No claim arising from brevity of description of items fully described in the said Model Personshies for Trades of Supplementary Preserbles to Model Personshies  No claim arising from brevity of description of items fully described in the said Model Personshies for Trades of Supplementary Preserbles to Model Presonshies  Will be grafted of  (ICPAP WORK GROUP NO.126) unless otherwise stated  ROOFS, ETC  Sann softwood  Sann softwood  Sann softwood  Sann softwood plan Each brise software and selection of term.  San softwood plan Each brise software and selection and selection selection of term.  San selection of plan Each brise software and selection selection of term.  San selection of plan Each brise software and selection selection of term.  San softwood plan Each brise software selection of term.  San selection of plan Each brise software selection of term.  San selection of plan Each brise software selection of term.  San selection of plan Each brise software selection of term.  San selection of plan Each brise selection with selection selection of term.  San selection of plan Each brise selection with selection selection of term.  San selection of plan Each brise selection with selection selection selection of terms.  San selection of plan Each brise selection with selection of terms.  San selection of plan Each brise selection selection of terms.  San selection of plan Each selection selec		SCHEDULE OF QUANTITIES	CO	NTRACT	No.	PAGE 19		
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		Carried to Summary						

	SCHEDULE OF QUANTITIES		NTRACT		PAGE 20
	For the Construction of Tshikota CRUs		2/2021-2		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL No. 7				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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 plaim arising from brouth, of description of items fully described in the said Medal				
	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				
	(CDAD WORK CDOLID NO 120) unloss otherwise stated				
	(CPAP WORK GROUP NO.129) unless otherwise stated				
	OFILINOS FTO				
	CEILINGS, ETC				
	NAU ED LID OFU INOS				
	NAILED-UP CEILINGS				
	6 mm thick fibre cement cellulose board, nailed to 38 x 38mm battens	-			
	(450c/c) with 2mm galvanised or cadium plated clout headed nails	-			
70	Complete with H-profile jointing strips.		405		
/3	Ceilings including 38 x 38mm sawn softwood brandering at not	m2	125		
	exceeding 300mm centres in one direction				
	DI ACTEDDO ADD				
	PLASTERBOARD				
	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	1			
	brandering at 450mm centres in one direction	m2	125		
	E (	ļ.,			
75	Extra over ceilings for trapdoor size 650 x 650mm in clear including all sawn and	No	6		
	wrot Pine framing, etc covered with ceiling board and fitted flush with ceiling.				
		1	1		
	CORNICES	1	1		
	Masonite Cornices	1	20-		
76	75 x 19mm Masonite cornice, plugged	m	285		
	INCHESTICAL	-			
	INSULATION	1	1		
	"Aerolite insulation" or other approved insulation		10-		
77	40mm thick resin bonded glass fibre or rock mineral wool	m2	125		
	Carried to Summary	/			

	SCHEDULE OF QUANTITIES	C	ONTRACT	No.	PAGE 21
	For the Construction of Tshikota CRUs	truction of Tshikota CRUs B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 8				
	FLOOR COVERINGS, PLASTIC LININGS, ETC				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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	1			
	(CPAP WORK GROUP NO.130) unless otherwise stated				
	FLOOR COVERINGS				
	Vinyl				
	2mm thick sheeting, or equal approved.Installed In accordance with				
	Manufacturers specification and recommendation				
	Colour: To Be Confirmed				
78	On floors and in door openings	m2	125		
	Polish, Sealer, Etc				
79	Two coats floor dressing as recommended by the manufacturer's to floor	m2	125		
	coverings and in door openings in strict accordance with the manufacturer's				
	instructions and specifications.				
	Carried to Summary	/			

	SCHEDULE OF QUANTITIES		No.	PAGE 22	
	For the Construction of Tshikota CRUs		B02/2021-22FY		
EM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 9				
	IRONMONGERY				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	(CDAD MODIC CDOLID NO 122) unloss atherwise stated				
	(CPAP WORK GROUP NO.132) unless otherwise stated				
	CATCHES, CABIN HOOKS, ETC				
	CATCHES, CABIN HOORS, ETC				
80	Hat & Coat Hook Rubber Buffer, plugged (code: 15469)	No	24		
- 00	Tide & Odde Floor Rabbot Ballot, plagged (odde: 10400)	110	27		
	LOCKS				
	2001.0				
	Chromium plated two lever mortice lockset				
	Satin chromium plated three lever mortice lockset with striking plate				
	3pm				
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		
	HANDLES				
84	19mm Sanford I/on rose handle (code: EDD104C059)	Pairs	24		
	DOOR CLOSER				
0.5	0				
85	Standard door closer ( code: AZ1503R)	Sets	11		
	0(	0 1			
86	Standard arm & p/arm (code: AZ4001DA)	Sets	1		
-	D(0) 11 1 ( / 1 400(00)				
8/	D/Stop rubber buffer (code: 139/69)	No	24		
	Balance brought down				

	SCHEDULE OF QUANTITIES	CO	NTRACT	No.	PAGE 23
	For the Construction of Tshikota CRUs		B13/2020-21FY		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
	LETTERS, NAMEPLATES, ETC				
	LETTERO, NAMEE EATES, ETO				
88	150 x 150 x 0.9mm thick stainless steel pictogram engraved	No	6		
	with male sign				
89		No	6		
	with male sign				
90	150 x 150 x 0.9mm thick stainless steel pictogram engraved	No	6		
	with a disabled person sign	110	Ť		
	•				
91		No	6		
	fire hose reel, fire extinguisher or fire exit symbol.				
	SUNDRY IRONMONGERY ITEMS	H2	0		
	ONDAT INCAMOROLAT TIEMO	112	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)	No	1		
	or similar approved				
	BATHROOM FITTINGS				
	Franke or similar approved				
	Tranke of Similar approved				
94	Recessed toilet paper roll holder fwith a single piece	No	6		
	pressed lid, welded container and cylinder lock (code				
	359909)				
	DVO.				
	PVC				
95	Edge trims.	m	94		
- 30			1		
	Carried to Summary				

	SCHEDULE OF QUANTITIES	CC	ONTRACT	No.	PAGE 24
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 11				
	METALWORK				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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		1		
	Preambles will be granted				
	Freatibles will be grafited				
	813 x 2032mm overall Steel security gates formed of 40x60x2mm steel tubing	No	6		
	ingate sorround , 12mm diameter vertical steel rods welded to surrounds				
	Staircase				
	Allow for staircase and its componets and accessories	Item	1		
	DOOR FRAMES, DOORS, WINDOWS, ETC				
	PRESSED STEEL DOOR FRAMES				
	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.				
	ractory 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		
	4 Corres Devokto and a forester a suitable for one builds well-		1		
00	1,6mm Double rebated frames suitable for one brick walls	NI.			
98	Frame for door 813 x 2100 mm high	No	6		
			1		
	Carried to Summary				
		<u> </u>			

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 25
	For the Construction of Tshikota CRUs		B02/2021-22FY		
EM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	DUIL DING WORKS				
	BUILDING WORKS BILL NO. 12				
	PLASTERING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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 Summplentary Preambles to Model Preambles				
	will be granted				
	mili do grantoa				
	(CPAP WORK GROUP NO.142) unless otherwise stated				
	SCREEDS				
	Screeds on concrete	1			
99	30mm thick wood floated on floors and landings	m2	325		
	GRANOLITHIC				
	Untinted Granolithic on concrete				
100	45mm thick finish on floors and landings	m2	5		
	EXTERNAL PLASTER				
	Cement plaster on brickwork				
101	On walls	m2	165		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
102	On walls	m2	365		
103	On narrow widths not exceeding 300mm wide	m2	25		
	Cement plaster on concrete				
104	On projecting and isolated columns and beams	m2			
105	On ceilings	m2			
106	On raking soffits of stairs	m2			
	CODNED DOTECTORS DIVIDING STRIPS FTO				
407	CORNER PROTECTORS, DIVIDING STRIPS, ETC	1			
107	Aluminium tile edge strips	m			
108	30 x 3mm Flat section brass dividing strips between different	1			
	floor finishes	m			
	Carried to Summar	v			
	Carried to Summar	У			

SCHEDULE OF QUANTITIES		CO	ONTRACT	PAGE 26	
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	CECTION NO. 2				
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 13				
	TILING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
-	VI				
	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				
	WALL TILING				
	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 (elswhere measured) with 2mm wide joints continuous				
	in both directions with joints pointed with 'Tal Fine Epoxy Grout'				
100	On walls	m2	184		
100	On waiis	IIIZ	104		
110	On narrow widths not exceding 300mm width	m2	35		
110	On harrow widths not exceeding sooniin width	IIIZ	33		
	FLOOR TILING				
	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		
	OTHOUS	IIIZ	323		
	240x240mm clay floor tiles laid on a smooth, even, dust tree surface				
	with tile adhesive grout				
110	On floors and landings	m2			
112	On noons and randings	IIIZ			
110	Cut tiles to skirting 100mm high	m	65		
113	Cut tiles to skirting 100mm high	m	00		
	0		-		
	Carried to Summary		-		

	SCHEDULE OF QUANTITIES	CO	NTRACT	No.	PAGE 27
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 14				
	PLUMBING AND DRAINAGE				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	Treambles will be granted				
	(CPAP WORK GROUP NO.148) unless otherwise stated				
	RAINWATER DISPOSAL				
	Steel rainwater gutters and rainwater pipes				
114	100 x 100 x 0.6mm powder coated steel rainwater gutters and downpipes	m	65		
	fixed to roof structure as per manufacturer's specifications				
115	Extra over 100x 100 x 0.6mm powder coated steel rainwater gutter for stopped end	No	2		
440	E	N	_		
116	Extra over 100 x 100 x 0.6mm powder coated steel rainwater gutter for outlet for	No	7		
	75 x 75mm pipe				
117	100 x 100mm diameter rainwater pipes	m	25		
117	100 x 10011111 diameter rainwater pipes	m	23		
118	Extra over 100 x 100mm rainwater pipe for bend	No	8		
. 10	End of the Control Millimator pipe for both				
119	Extra over 100 x 100mm rainwater pipe for shoe	No	8		
120	Extra over 100 x 100mm rainwater pipe for offsets	No	5		<u> </u>
	_,				
	Balance brought down				-

	SCHEDULE OF QUANTITIES	CC	No.	PAGE 28	
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ГЕМ	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
	Balanco Stought for Hala				
	SANITARY FITTINGS				
	Vaal or equally approved				
121	Vitreous china "orchid" closed coupled 90 degrees outlet	No	6		
	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)				
	branic (000 000-20)				
122	Ceramic fireclay 595 x455mm "cameo" oval self rimming	No	6		
	vanity basin with one tap and chainstay hole through the				
	centre semi-punched taphole supplied standard without an				
	overflow				
123	"Vaal Potteries" Orchid paraplegic wall hung WC suite	No	6		
120	vaari ottenes ordina parapiegio waii nang wo saite	140	0		
124		No	6		
	32mm standing overflow tube, chrome plated (code 8630Z0) fixed to wall				
	suing 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				
125	Plexicor president 1700 cast acrylic perspex rectangular	No	6		
123	bath in opal finished with with chromium plated grip handles,	INU	U		
	overall size 1700 x 750 x 400mm deep				
	overali size 1700 x 750 x 400mm deep				
126	Pre-assembled steel kitchen sink 1500mm x 535mm,	No	6		
	finished with epoxy power				
	WASTE UNIONS ETC				
	"Cobra Watertech" or equal approved				
127		No	6		
		-			
	TRAPS ETC				
	Dutton Plastic Engineering				
128	Anti vac bottle trap (code DB22A/V)	No	6		
129	Bath trap ( code 40PBC)	No	6		
	Balance brought down				

	SCHEDULE OF QUANTITIES	C	No.	PAGE 29	
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance brought forward				
400	uPVC				
130	40 x 40mm flexi rubber waste trap	No	6		
	SANITARY PLUMBING				
	uPVC soil and vent pipes				
	40 mm diameter pipe	m	18		
	To min diamotor pipo		10		
132	50 mm diameter pipe	m	22		
133	110mm Pipe laid in and including trench excavation not	m	75		
	exceeding 1m deep including backfilling with selected				
	granular fill in bedding and filling around pipes				
	Extra over uPVC soil and vent pipes for fittings				
134	40mm junction	No	3		
135	40mm bend	No	10		
136	40 mm Nipple	No	5		
407	50 1 1				
137	50mm bend	No	4		
120	50mm justing	No	5		
130	50mm juction	INO	5		
130	50mm reducing junction	No	4		
100	John Feddong Juricuon	110	7		
140	110 mm Reducer with anti-syphon horn	No	10		
			10		
141	110mm bend	No	8		
142	110 mm Straight pan connector	No	10		
	•				
	Balance brought down				

	SCHEDULE OF QUANTITIES	CO	No.	PAGE 30		
	For the Construction of Tshikota CRUs	B02/2021-22FY			17102 00	
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			
	Sundries					
145	Testing waste pipe system	Item	1			
	WATER SUPPLIES					
	Class 2 copper pipes with brass compression couplings					
146	22mm Pipes	m	5			
	Extra over class 2, copper pipes for soldered capillary fittings		40			
147	22mm, fittings	No	12			
	FIRE ARRIVANCES ETA					
	FIRE APPLIANCES ETC	NI.	0.4			
	"Everyway" hose reel to comply with SABS 543, complete with 30m rubber hose,	No.	24			
	chromium plated stop cock, shut-off nozzle and wall bracket					
110	A File Development and the section of the section of the basel of the basel of the section of th	NI-	00			
149	4.5kg Dry chimical powder fire extinguisher complete with brackets fixed to wall	No.	96			
	ELECTRIC HOT WATER HEATERS					
	ELECTRIC HOT WATER HEATERS					
	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.		00			
150	150 Litre geyser floor/wall electric water heater	No.	96			
	WATER METERS					
	CASISINI ASIANV					
	Provide erf connections complete; Includes trench, bedding, backfill, pipe fittings, water					
	meter, sadles marker posts and all material, including work to complete the connection					
	(saddles to main pipe measured elsewhere)	No	96			
	TESTING	110	30			
	Allow for testing of all sanitary plumbing, water supplies and fire services to the	Item	1			
	satisfaction of the Principal Agent.		<del>  '</del>			
	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.		
	For the Construction of Tshikota CRUs	B02/2021-22FY			
EM	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 conjuction 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 Summplentary Preambles to Model Preambles				
	will be granted				
	will be grafited				
	(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)				
	ALATINA TA ATEEL MITH BUTTY				
	GLAZING TO STEEL WITH PUTTY				
	6,4mm safety glass	0	40		
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				
	600 x 900mm high mirrors	No	6		
,00					
	Carried to summary				

	SCHEDULE OF QUANTITIES		NTRACT	PAGE 32	
	For the Construction of Tshikota CRUs	BO	2/2021-2		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 16				
	PAINTWORK				
	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 conjuction 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 Summplentary Preambles to Model Preambles				
	will be granted				
	·· <b>y</b> · ···				
	(CPAP WORK GROUP NO.152) unless otherwise stated				
	(				
	PAINTWORK, ETC TO NEW WORK ON				
	ON PLASTER, ETC.				
	Internal Walls				
	Prepare and apply, one coat primer, one coat universal under coat, and				
	two PVA (arcrylic) paint				
	On walls	m2	365		
155	On narrow widths	m2	35		
156	Ceilings.				
	External walls				
	Prepare and apply, one coat primer, one coat				
	universal under coat, and two PVA (arcrylic) paint				
	On walls.	m2	195		
158	On narrow widths.	m2			
	ON CONCRETE				
	Prepare and apply, one coat primer, one coat universal under coat,				
	and two coats exterior quality PVA emulsion paint				
	On soffits of concrete slabs.	m2			
	On raking soffits of stairs	m2			
	On projecting and isolated columns and beams	m2			
	ON FIBRE-CEMENT				
	One coat primer and two coats professional acrylic polyvinyl acetate				
	Ceilings and cornices, including priming metal cover strips and nailheads	m2	145		
	On fascias and barge boards	m2	42		
	•				
	Balance brought down				

SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 33	
For the Construction of Tshikota CRUs		B02/2021-2	2FY		
EM DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
Balance brought forward	ard				
ONIMETAL					
ON METAL					
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				
ON WOOD ETC.					
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				
ON PLASTER BOARD, HARDBOARD, ETC.					
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 Summa					

	SCHEDULE OF QUANTITIES	C	ONTRACT No.	PAGE 34
	For the Construction of Tshikota CRUs	E	302/2021-22FY	
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	(	PAGE 35		
	For the Construction of Tshikota CRUs		B02/2021-22FY		
M	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	TYPE C				
	Two Bedroom Unit				
	Two Beardoni Unit				
	SECTION NO. 1				
	BUILDING WORKS				
	BILL NO. 2				
	SITE CLEARANCE ETC				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
ļ					
	No claims arising from brevity of description of items fully described in the said				
	Model Preambles for Trades orSummplentary Preambles to Model Preambles				
	will be granted				
	(CPAP WORK GROUP NO.104) unless otherwise stated				
	SITE CLEARANCE ETC				
	Site clearance:				
1	Digging up and removing rubbish, debris, vegetation, hedges,	m2	2250		
	shrubs and trees not exceeding 200mm girth, bush,including				
	grubbing up roots, filling up holes and compacting to 90% MOD				
	ASSHTO density				
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m	507		
	Outphing average 150mm thick layer of top 30m and 3tockpining on site	111	307		
	REMOVAL OF TREES ETC				
	Taking out and removing, grubbing up roots and filling in holes				
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2		
4	Tree stump exceeding 500mm and not exceeding 1000mm	No	2		
	girth				
	Cutting down and removing, grubbing up roots and				
	filling in holes				
	Hedge exceeding 2m and not exceeding 3m high	m			
	Tree exceeding 200mm and not exceeding 500mm girth	No			
	Tree exceeding 500mm and not exceeding 1000mm girth	No			
	Tree exceeding 1000mm and not exceeding 1500mm girth	No			
	Tree exceeding 1500mm and not exceeding 2000mm girth	No			
	· •				
	Carried to Summary	,			

	SCHEDULE OF QUANTITIES		CONTRACT No.			
	For the Construction of Tshikota CRUs	B02/2021-22FY				
TEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	BUILDING WORKS					
	BILL No. 2					
	EARTHWORKS (PROVISIONAL)					
	NOTE:					
	The Bidder must read each description, study the "specification of materials, methods to be					
	used, throughout this bills of quantities in conjuction 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 Summplentary Preambles to Model Preambles					
	will be granted					
	EXCAVATION, FILLING, ETC					
	EXCAVATION, FILLING, ETC OTHER THAN BULK					
	Excavation in earth not exceeding 2m deep					
10	Reduced levels under floors	m <sup>3</sup>				
11	Trenches	<b>m</b> 3	11		-	
	Extra over trench and hole excavations in earth for excavation in					
	Soft rock	m3	2		<del>-  </del> .	
	Hard rock	m3	1			
	Balance Brought Down					

	SCHEDULE OF QUANTITIES CONTRACT No.			PAGE 37	
	For the Construction of Tshikota CRUs		B02/2021-22FY		
ГЕМ	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward	1			
	Extra over all excavations for carting away				
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located	km/m <sup>3</sup>	5		
	by the contractor				
	District all seconds are all seconds and all seconds are all s				
45	Risk of collapse of excavations		0.5		
	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			
	Keeping excavations free of water				
17	Allow for keeping all excavations free of water and mud	Itom	1		
- 17	Aniow for reching an expanditions free or water and mud	Item			
	FILLING ETC				
	G5 filling supplied by the contractor compacted to 98% Mod AASHTO density				
	Under floors, steps, pavings etc	m <sup>3</sup>	5		
	Prescribed density tests on filling				
19	"Modified AASHTO Density" test	No	4		
	Earth filling obtained from the excavations and/or prescribed stock				
	piles on site, compacted to 93% Mod AASHTO density		+		
20	Over site	m3	+		
	Under floors, steps, pavings, etc	m3			
	Backfilling to trenches, holes, etc	m3			
22	Dackining to trendres, noies, etc	IIIo			
	Compaction of surfaces				
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			
	,				
	Prescribed density tests on filling				
24	"Modified AASHTO Density" test	No			
	,				
	SOIL POISONING				
	Soil insecticide in accordance with SANS 5859				
25	Under floors etc, including forming and poisoning shallow	m2	45		
	furrows against foundation walls etc, filling in furrows and				
	ramming				
26	To bottoms and sides of trenches etc	m2	50		
	Carried to Summary	,			

	SCHEDULE OF QUANTITIES		ONTRACT No		PAGE 38
	For the Construction of Tshikota CRUs		02/2021-22F\		
TEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL No. 3				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	CONCRETE				
	(CDAD Wards Cors. on Ala. 440)				
	(CPAP Work Group No. 110)				
	SUBSTRUCTURE				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15MPa/20mm concrete				
27		m2			
21	Surface blinding under footings and bases	m3			
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	30MPa/19mm concrete				
	Foundations	m3	50		
	Surface beds cast in panels on waterproofing (measured elsewhere)	m3	8		-
29	Surface beds cast in panels on waterproofing (measured eisewhere)	IIIO	0		-
	REINFORCED CONCRETE				
	30MPa/20mm concrete				
	Slabs, including beams and inverted beams	m3			
	Stairs, including learns and inverted beams Stairs, including landings, beams and inverted beams	m3			
	Columns	m3			
JΖ	Columns	IIIS			
	TEST CUBES				
33	Making and testing 150 x 150 x 150mm concrete strength test	No	5		
55	cube (Provisional)	INO	3		
	Cabe (i Tovisional)				
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float/steel trowel				
	Surface beds, slabs, etc	m2	45		
- 0 -	3011000 5000, 01050, 010		10		
	Finishing top surfaces of concrete smooth with a power float				
	Surface beds, slabs, etc	m2	45		
	Core Drill				
36	Core drill through 250mm thick reinforced concrete				
	slab,100mm diameter.	No			
	Balance Brought Down	I	1		1

	SCHEDULE OF QUANTITIES		NTRACT No		PAGE 39
ГЕМ	For the Construction of Tshikota CRUs		2/2021-22F		AMOUNT
IEM	DESCRIPTION Polyment Forwards Forwards	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	FORMWORK				
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	NOOSIN ONMITORIC (BEORLE OF NOOSIN OF III)				
	(CPAP Work Group No. 111)				
	Rough formwork to sides				
	Beams	m3	5		
38	Columns	m <sup>3</sup>			
	SMOOTH FORMWORK (DEGREE OF ACCURACY III)				
	Smooth formwork to sides				
	Beams				
40	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	18		
		<b>.</b>			
	MOVEMENT JOINTS ETC				
	Isolation joints				
41	Isolation joint in slabs 10mm wide sealed with and including polyurethane sealant	m	15		
	Au				
40	Slip joints				
42	3mm tempered hardboard between horizontal concrete and	m	8		
	brick surfaces not exceeding 300mm wide				
	REINFORCEMENT (PROVISIONAL)				
	REINFORCEMENT (FROVISIONAL)				
	(CPAP Work Group No. 114)				
	(OF ALL WORK GROUP NO. 114)				
	Steel reinforcement to structural concrete work				
	Various diameter bars				
	Mild Steel Bars				
	8mm	t	1		
	10mm	t	1		
	High tensil steel bars				
	10mm	t			
	12mm	t	2		
	16mm	t	2		
	20mm	t	1		
	25mm	t	9		
	Steel mesh reinforcement				
44	Type 245 fabric reinforcement in brick walls with and including butterfly ties at every	m2	45		
	fourth course				
45	Fabric reinforcement in concrete surface beds, slabs, etc.	m2			
	PRECAST CONCRETE				
	Standard concor or equal pre-stressed concrete lintel bedded In mortar and				
	extending not less than 225mm on either side of opening				
	Precast Lintels				
47	110 x 75mm Lintels in lengths not exceeding 3m	m			
		-			
	Carried to Summary	1			

	SCHEDULE OF QUANTITIES	CONTRACT No.		PAGE 40	
	For the Construction of Tshikota CRUs	B02/2021-22FY			
EM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO: 3				
	MASONRY				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	i Touribles for Trades of Supplementary Freuinbles to Model Freuinbles will be granted				
	(CPAP WORK GROUP NO.118) unless otherwise stated				
	(CITAL FIGURE STOCK FIGURE STATES STA				
	BRICKWORK				
	IN FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar				
	115mm brick walls.	m2	18		
	230mm brick walls.	m2			
	IN SUPERSTRUCTURE				
	Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar				
	115mm brick walls.	m2	8		
	115mm brick walls in beam filling.	m2			
	230mm brick walls.	m2	38		
	Brickwork reinforcement				
53	75mm Wide reinforcement built in horizontally	m	125		
	150mm Wide reinforcement built in horizontally	m	165		
55	12mm Bitumen impregnated fibre board built in vertically between brickwork and	m2	9		
	concrete surface bed				
	Turning pieces				
56	110mm Wide turning piece to lintels etc	m	15		
	Galvanised hoop iron cramps, ties, etc				
57	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	16		
	DUILL IIILU DIIGKWOIK				
	Carried to Summary				
	Carried to Summary	1			+

	SCHEDULE OF QUANTITIES		NTRACT N		PAGE 41
	For the Construction of Tshikota CRUs	BO	B02/2021-22FY		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 4				
	WATERPROOFING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	01				
	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				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron"Tarkon or equal approved" DPC embossed				
	damp proof course				
58	In walls	m2	8		_
			Ť		
	One layer of 250 micron "Tarkon or equal approved"				
	Gunplas USB Green waterproof sheeting sealed at				
	laps with " Gunplas Pressure Sensitive Tape"				
59	Under surface beds	m2	55		_
	Chiadrical records				
60	On bottoms and sides of ground beams	m2	45		_
- 00	on bottoms and sides of ground boarns	III Z	70		
	JOINT SEALANTS ETC				
	"Compriband" bitumen impregnated foam plastic				
	joint sealing strips				
61	10 x 10mm sealant in isolation joint	m	18		_
	25x20mm In joints between walls	m	10		
UZ	2002011111 III JUING DOLWOOTI Walls				
	Carried to Summary				+
	Carried to Summary				+
		1			

	SCHEDULE OF QUANTITIES		CONTRACT No.			
	For the Construction of Tshikota CRUs	B02/2021-22FY				
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	SECTION NO. 2					
	BUILDING WORKS					
	BILL NO. 5					
	ROOF COVERINGS ETC					
	NOTE:					
	The Bidder must read each description, study the "specification of materials, methods to be					
	used, throughout this bills of quantities in conjuction 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					
	Wooder reambles forming part of these bins 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					
	(ODAD WORK ODOUBNO 404)					
	(CPAP WORK GROUP NO.124) unless otherwise stated					
	PROFILED METAL SHEETING AND ACCESSORIES					
	Roof coverings					
	Observation of Objects December 1997 and 1997 an					
	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			
	Standard head wall flashing 185mm girth	m	8			
	<b>V</b> • • • • • • • • • • • • • • • • • • •					
	ROOF AND WALL INSULATION					
	The state of the s					
					+	
	Carried to Summary					
	Carried to Summary					

- 1	SCHEDULE OF QUANTITIES  For the Construction of Tabilente CDUs		CONTRACT No.  B02/2021-22FY			
	For the Construction of Tshikota CRUs				ANACHINIT	
EM I	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	SECTION NO. 2					
	BUILDING WORK					
	BILL NO. 6					
-	CARPENTRY AND JOINERY					
	NOTE:					
T	The Bidder must read each description, study the "specification of materials, methods to be					
	used, throughout this bills of quantities in conjuction 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					
	Model Freditibles forming part of these bins of Quantities					
-	No claim arising from brouity of description of items fully described in the said Model		1			
	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					
7	ROOFS, ETC					
- 1	Sawn softwood					
$\neg \dagger$						
65	38 x 114mm Wall plates	m	18		1	
	Design, manufacture and deliver on site, plate nailed roof	Item.	1		1	
	trusses to type C, with area 92m2	itom.	<u> </u>			
	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)					
	EAVES, VERGES, ETC					
	Pressed Fibre Cement					
1	"Everite FC77" or other equal and approved pressed fibre cement 225x12mm					
	flat sheet fascia screwed to trusses to recieve paint					
$\neg \dagger$	F					
67	12 v 225mm Fascias and harge hoards, including aluminium, H-profile jointing strips	m	65			
67	12 x 225mm Fascias and barge boards, including aluminium H-profile jointing strips	m	65			
		m	65			
;	SKIRTINGS	m	65			
;	SKIRTINGS Wrought meranti					
68	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish	m	65 85			
68	SKIRTINGS Wrought meranti					
68 69 8	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed	m				
68 69 69	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC	m				
68 69 69	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed	m				
68 69 9	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors	m				
68 69 9	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 44mm Framed, ledged and braced batten door 0,81 x 2,03m high	m				
68 69 8	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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	m				
68 69 9	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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	m				
68 69 8	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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	m				
68 69 8	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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.	m m	85			
68 : 1	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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	m				
68 69 11 11 11 11 11 11 11 11 11 11 11 11 11	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm	m m	85			
68 69 5	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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.  813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed	m m	85			
68 69 5	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed hardwood edges	m m	85			
68 69 5	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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.  813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed	m m	85			
68 69 5	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed hardwood edges	m m	85			
68 i i i i i i i i i i i i i i i i i i i	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed hardwood edges 813mm x 2032mm x 40mm.	m m	85			
68 69 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed hardwood edges 813mm x 2032mm x 40mm.  Semi-Solid core flush panel door with Masonite finish and concealed	m m	85			
68 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed hardwood edges 813mm x 2032mm x 40mm.  Semi-Solid core flush panel door with Masonite finish and concealed hardwood edges.	m m	1			
68 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed hardwood edges 813mm x 2032mm x 40mm.  Semi-Solid core flush panel door with Masonite finish and concealed	m m	85			
68 69 1 1 1 70 1 71 1 3 1	SKIRTINGS Wrought meranti 70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish 50 x 18mm Meranti cornices nailed  DOORS, ETC Wrought meranti doors 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. 813mm x 2032mm x 40mm  Solid core flush panel door with Masonite finish and concealed hardwood edges 813mm x 2032mm x 40mm.  Semi-Solid core flush panel door with Masonite finish and concealed hardwood edges.	m m	1			

	SCHEDULE OF QUANTITIES		NTRACT No	D.	PAGE 44
	For the Construction of Tshikota CRUs		2/2021-22F	Y	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	22001 11011	5	α		7
	SECTION NO. 2				
	BUILDING WORKS				
	BILL No. 7				
	CEILINGS, PARTITIONS AND ACCESS FLOORINGS				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	Woder Freditibles forming part of these bins 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				
	Treambles for Trades of Supplementary Freambles to Model Freambles will be granted				+
	(CPAP WORK GROUP NO.129) unless otherwise stated				
	TOTAL MOUNT ONOOL MO. 129) UHIGOS OHIGIWISE STATEU				+
	CEILINGS, ETC				
	CEILINGS, ETC				
	NAILED-UP CEILINGS				
	6 mm thick fibre cement cellulose board, nailed to 38 x 38mm battens				
	(450c/c) with 2mm galvanised or cadium plated clout headed nails				
	Complete with H-profile jointing strips.		45		
/3	Ceilings including 38 x 38mm sawn softwood brandering at not	m2	45		
	exceeding 300mm centres in one direction				
	71.40				
	PLASTERBOARD				
	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	45		
	Extra over ceilings for trapdoor size 650 x 650mm in clear including all sawn and	No	1		
	wrot Pine framing, etc covered with ceiling board and fitted flush with ceiling				
	CORNICES				
	Masonite Cornices				
76	75 x 19mm Masonite cornice, plugged	m	50		
	INSULATION				
	"Aerolite insulation" or other approved insulation				
77	40mm thick resin bonded glass fibre or rock mineral wool	m2	45		
	Carried to Summary				

	SCHEDULE OF QUANTITIES	CC	NTRACT No	).	PAGE 45
	For the Construction of Tshikota CRUs	BO	2/2021-22F		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 8				
	FLOOR COVERINGS, PLASTIC LININGS, ETC				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	FLOOR COVERINGS				
	Vinyl				
	2mm thick sheeting, or equal approved.Installed In accordance with				
	Manufacturers specification and recommendation				
	Colour: To Be Confirmed				
78	On floors and in door openings	m2	45		
	Polish, Sealer, Etc				
	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.				
	Carried to Summary				

	SCHEDULE OF QUANTITIES		CONTRACT No.		PAGE 46
	For the Construction of Tshikota CRUs		02/2021-22F		
TEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 9				
	IRONMONGERY				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	Freambles for Trades of Supplementary Freambles to Model Freambles will be granted				
	(CPAP WORK GROUP NO.132) unless otherwise stated				
	101711 WORLD ON 140.102) unicos otricimise stated				
	CATCHES, CABIN HOOKS, ETC				
	OATONEO, OADIN NOONO, ETO				
80	Hat & Coat Hook Rubber Buffer (code: 15469)	No	2		
	Tale Court Tour Table 2 Sail of (Court To Too)		_		
	LOCKS				
	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		
	HANDLES				
0.4	40 0 ( 11/	D :			
84	19mm Sanford I/on rose handle (code: EDD104C059)	Pairs	4		
	DOOD OLOGED				
	DOOR CLOSER				
0.5	Standard door closer ( code: AZ1503R)	Coto	4		
00	Standard door doset ( dode. AZ 1905K)	Sets	4		
96	Standard arm & p/arm (code: AZ4001DA)	Sets	1		
00	Otanidard ann & prann (loude. AZ400 IDA)	0613	1		
۵7	D/Stop rubber buffer (code: 139/69)	No	4		
U1	Diotop russici suilei (code. 133/03)	110	4		
	Balance Brought Down				
	Baiance Brought Down	1			

	SCHEDULE OF QUANTITIES	C	ONTRACT N	0.	PAGE 47
	For the Construction of Tshikota CRUs	В	02/2021-22F	Y	
ΈM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	Dulunde Brought Formula				
	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,	No	1		
	fire hose reel, fire extinguisher or fire exit symbol.				
	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	No	1		
	pressed lid, welded container and cylinder lock (code 359909)				
	,				
	PVC				
95	Edge trims.	m	28		
	Carried to Summary				
	Carried to Cummary				

	SCHEDULE OF QUANTITIES	C	CONTRACT N	0.	PAGE 48
	For the Construction of Tshikota CRUs		302/2021-22F	Υ	
EM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 11				
	METALWORK				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
96	813 x 2032mm overall Steel security gates formed of 40x60x2mm steel tubing	No	1		
	ingate sorround , 12mm diameter vertical steel rods welded to surrounds				
	DOOR FRAMES, DOORS, WINDOWS, ETC				
	PRESSED STEEL DOOR FRAMES				
	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		
	Carried to Summary				
	Carried to Cummary		+		

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

	SCHEDULE OF QUANTITIES		CONTRACT No.			
	For the Construction of Tshikota CRUs	B02/2021-22FY				
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	SECTION NO. 2					
	BUILDING WORKS					
	BILL NO. 13					
	TILING					
	NOTE:					
	The Bidder must read each description, study the "specification of materials, methods to be					
	used, throughout this bills of quantities in conjuction 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					
	model i reambles forming part of those 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					
	in realitiones for trades of supplementary frealitiones to infode Freatifices will be granted					
	(CPAP WORK GROUP NO.144) unless otherwise stated					
	(CPAP WORK GROUP NO. 144) unless otherwise stated					
	WALL THING					
	WALL TILING					
	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 (elswhere 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 exceding 300mm width	m2	1			
	FLOOR TILING					
	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 tree surface					
	with tile adhesive grout					
112	On floors	m2				
113	Cut tiles to skirting 100mm high	m	12			
	Carried to Summary					
	,					

	SCHEDULE OF QUANTITIES CONTRACT No.			).	PAGE 51	
	For the Construction of Tshikota CRUs	В	02/2021-22F	Y		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	SECTION NO. 2					
	BUILDING WORKS					
	BILL NO. 14					
	PLUMBING AND DRAINAGE					
	NOTE:					
	The Bidder must read each description, study the "specification of materials, methods to be					
	used, throughout this bills of quantities in conjuction 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					
	RAINWATER DISPOSAL					
	Steel rainwater gutters and rainwater pipes					
114	100 x 100 x 0.6mm powder coated steel rainwater gutters and downpipes	m	23			
	fixed to roof structure as per manufacturer's specifications					
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	No	1			
	75 x 75mm pipe					
			1			
11/	100 x 100mm diameter rainwater pipes	m	8			
440	F 1	NI.				
118	Extra over 100 x 100mm rainwater pipe for bend	No	2			
110	Extra over 100 x 100mm rainwater pipe for shoe	No	2			
119	Exita over 100 x 100mill failiwater pipe for snoe	INU				
120	Extra over 100 x 100mm rainwater pipe for offsets	No	2			
120	Exita over 100 x 100milli famiwater pipe for onsets	110				
	Balance Brought Down					
	Datalice Blought Down					

	SCHEDULE OF QUANTITIES		CONTRACT No.			
	For the Construction of Tshikota CRUs DESCRIPTION	B02/2021-22FY				
TEM		UNIT	QNTY	RATE	AMOUNT	
	Balance Brought Forward					
	Datance Broagner of Ward					
	SANITARY FITTINGS					
	Vaal or equally approved					
121	Vitreous china "orchid" closed coupled 90 degrees outlet	No	1			
	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)					
122	Vaal code 7030 Bantam basin, size 340 x 460mm overall,	No	1			
122	fixed to wall with two tapholes including intergrated overflow	IVO	'			
	and chainstay hole bolted to wall with two 10mm bolts and					
	silled with silicone sealant where basin meets wall or simila					
	approved					
123	"Vaal" Junior 104deg outlet washdown pan (code: 751300)	No	1			
	and matching 6 litre cistern (code: 712034) complete with lid					
	and fitments, and junior seat complete					
124	Ceramic fireclay 595 x455mm "cameo" oval self rimming	No	1			
	vanity basin with one tap and chainstay hole through the					
	centre semi-punched taphole supplied standard without an					
	overflow					
125	"Vaal Potteries" Orchid paraplegic wall hung WC suite	No	1			
126	Sanitaryware vitreous china sola 510 basin (code:	No	1			
	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					
	Plexicor president 1700 cast acrylic perspex rectangular bath in opal finished with	No	1			
	chromium plated grip handles, overall size 1700 x 750 x 400mm deep					
128	Pre-assembled steel kitchen sink 1500mm x 535mm, finished with epoxy power	No	1			
120	. To accommon of the recommendation multiple of the second					
	Balance Brought Down					
	•					

	SCHEDULE OF QUANTITIES	CC	PAGE 53		
	For the Construction of Tshikota CRUs DESCRIPTION	B02/2021-22FY			
ITEM		UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	WASTE UNIONS ETC				
	"Cobra Watertech" or equal approved				
129	Sink waste (code 316)	No	1		
	TRAPS ETC				
	Dutton Plastic Engineering				
130	Anti vac bottle trap (code DB22A/V)	No	1		
131	Bath trap ( code 40PBC)	No	1		
	uPVC				
132	40 x 40mm flexi rubber waste trap	No	1		
	TAPS, VALVES, ETC				
	SANITARY PLUMBING				
	uPVC soil and vent pipes				
	40 mm diameter pipe	m	6		
133	40 mm diameter pipe	111	0		
134	50 mm diameter pipe	m	12		
- 101	oo miii didiilotoi pipo				
135	110mm Pipe laid in and including trench excavation not exceeding 1m deep	m	42		
	including backfilling with selected granular fill in bedding and filling around pipes				
	Extra over uPVC soil and vent pipes for fittings				
136	40mm junction	No	3		
137	40mm bend	No	3		
400	40 N° I.	N.	-		
138	40 mm Nipple	No	5		
	p.t p lep				
	Balance Brought Down				

SCHEDULE O	F QUANTITIES	CONTRACT No.			PAGE 54
For the Construct	tion of Tshikota CRUs	B02/2021-22FY			
ITEM DESCRIPTION		UNIT	QNTY	RATE	AMOUNT
	Balance Brought Down				
139 50mm bend		No	1		
140 50mm juction		No	5		
140 John Juction		NO	3		
141 50mm reducing junction		No	4		
142 110 mm Reducer with anti-syp	hon horn	No	8		
143 110mm bend		No	8		
144 110 mm Straight pan connecto	or	No	5		
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 bi	rass compression couplings				
148 22mm Pipes		m	5		
Extra over class 2, copper p	ipes for soldered capillary fittings				
149 22mm, fittings	•	No	6		
	Balance Brought Down				

	SCHEDULE OF QUANTITIES		CONTRACT No.			
	For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	Balance Brought Forward					
	•					
	FIRE APPLIANCES ETC					
150	"Everyway" hose reel to comply with SABS 543, complete with 30m rubber hose,	No.	6			
	chromium plated stop cock, shut-off nozzle and wall bracket					
	·					
151	4.5kg Dry chimical powder fire extinguisher complete with brackets fixed to wall	No.	6			
	ELECTRIC HOT WATER HEATERS					
	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.					
	Stockhold power capping man isolater in away from commodation on goyce.					
152	150 Litre geyser floor/wall electric water heater	No	6			
	<b>3</b> /					
	WATER METERS					
	Provide erf connections complete; Includes trench, bedding, backfill, pipe fittings, water					
	meter, sadles marker posts and all material,including work to complete the connection					
	(saddles to main pipe measured elsewhere ):	No	6			
	TESTING					
153	Allow for testing of all sanitary plumbing, water supplies and fire services to the	Item	1			
	satisfaction of the principal agent.					
	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.		0.	PAGE 56
	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 Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	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				
	Panes exceeding 0,1 and not exceeding 0,5m2	m2	6		
10-1	1 tilloo oxocoung o, 1 tillo not oxocoung o,omz	1112			
	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				
155	600 x 900mm high mirrors	No	1		
.50			'		
	Carried to Summary				
	Carried to Summary				
		1			

	SCHEDULE OF QUANTITIES		ONTRACT N	0.	PAGE 57	
	For the Construction of Tshikota CRUs		02/2021-22F		17102 61	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	SECTION NO. 2					
	BUILDING WORKS					
	BILL NO. 16					
	PAINTWORK					
	NOTE: The Pidder must read each description at July the "appoint at a particular methods to be					
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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					
	iniouel Fleatibles Torning 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					
	PAINTWORK, ETC TO NEW WORK ON					
	ON PLASTER. ETC.					
	Internal Walls					
	Prepare and apply, one coat primer, one coat universal under coat, and		1			
	two PVA (arcrylic) paint		1			
	On walls	m2	135			
	On narrow widths	m2	5			
	Ceilings.	IIIZ	3			
130	Cellings.					
	External walls					
	Prepare and apply, one coat primer, one coat					
	universal under coat, and two PVA (arcrylic) paint					
159	On walls.	m2	65			
	On narrow widths.	m2				
	ON CONCRETE					
	Prepare and apply, one coat primer, one coat universal under coat,					
	and two coats exterior quality PVA emulsion paint					
161	On soffits of concrete slabs.	m2				
162	On raking soffits of stairs	m2				
163	On projecting and isolated columns and beams	m2				
	ON FIBRE-CEMENT					
	One coat primer and two coats professional acrylic polyvinyl acetate					
	Ceilings and cornices, including priming metal cover strips and nailheads	m2	56			
165	On fascias and barge boards	m2	25			
	ON METAL					
	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)		1			
166	On door frames.	m2	15			
	On door frames.  Gates, grilles, burglar screens, balustrades, etc (both sides measured over full flat area)	m2 m2	15			
	On gutters and downpipes	m2 m	9			
100	On guitto and downpipes	111	9			
	ON WOOD ETC.					
	Prepare surface and apply one coat Dulux Duragrip					
	(or equal approved) and two coats Dulux Silthane					
	Silk Enamel (or equal approved)					
169	On doors	m2	9			
	Apply one undercoat and one coat high gloss paint.					
	Back boards of fire extinguishers.	m2				
	ON PLASTER BOARD, HARDBOARD, ETC.					
	Sand down and apply two coats of Woodoc 30 Varnish					
	On doors.	m2	9			
172	70 mm x 19 mm Meranti skirting with 19 mm quarter round	m				
	A 11/A" "					
	Carried to Collection					

	SCHEDULE OF QUANTITIES		CONTRACT No	).	PAGE 58	
	For the Construction of Tshikota CRUs DESCRIPTION		B02/2021-22FY			
ITEM		UNIT	QNTY	RATE	AMOUNT	
	SUMMARY PAGE					
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			
	TOTAL SUMMARY PER UNIT					
	TOTAL COMMENT FER ONL					
	96)		6			

	SCHEDULE OF QUANTITIES	CONTRACT No.		PAGE 59	
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	TYPE D				
	One Bedroom Unit				
	One Dearboni Onit				
	SECTION NO. 1				
	EXTERNAL WORKS				
	BILL NO. 4				
	SITE CLEARANCE ETC				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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 Summplentary Preambles to Model Preambles				
	will be granted				
	Will be granted				
	(CPAP WORK GROUP NO.104) unless otherwise stated				
	(OFFICE PROPERTY OF THE PROPER				
	SITE CLEARANCE ETC				
	Site clearance:				
1	Digging up and removing rubbish, debris, vegetation, hedges,	m2	2250		
	shrubs and trees not exceeding 200mm girth, bush,including		2200		
	grubbing up roots, filling up holes and compacting to 90% MOD				
	ASSHTO density				
	7 CONTROL CONSIGNATION OF THE CONTROL				
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m	507		
	Carpping arougo recomm and ages or or op con and electroning on elec		001		
	REMOVAL OF TREES ETC	<u> </u>			
	Taking out and removing, grubbing up roots and filling in holes	<u> </u>			
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2		-
	Tree stump exceeding 500mm and not exceeding 1000mm	No	2		-
	girth	1.0			
	Cutting down and removing, grubbing up roots and				
	filling in holes				
	Hedge exceeding 2m and not exceeding 3m high	m			
	Tree exceeding 200mm and not exceeding 500mm girth	No			
	Tree exceeding 500mm and not exceeding 1000mm girth	No			
	Tree exceeding 1000mm and not exceeding 1500mm girth	No			
	Tree exceeding 1500mm and not exceeding 2000mm girth	No			
	The blooding recently and not observing beginning man				
	Carried to Summary	<u> </u>			
	Carried to Carrier	1	1		

SCHEDULE OF QUANTITIES	CONTRACT No.		PAGE 60	
For the Construction of Tshikota CRUs	B02/2021-22FY			
DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
SECTION NO. 2				
BUILDING WORKS				
BILL No. 2				
EARTHWORKS (PROVISIONAL)				
NOTE:				
The Bidder must read each description, study the "specification of materials, methods to be				
used, throughout this bills of quantities in conjuction 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 orSummplentary Preambles to Model Preambles will be granted				
EXCAVATION, FILLING, ETC				
	<b>m</b> 3			
Trenches	m <sup>3</sup>	12		-
Extra over trench and hole excavations in earth for excavation in				
	m3	1		-
	m3	1		-
Polonos Proventé Doum				
Baiance Brought Down		1		
	For the Construction of Tshikota CRUs  DESCRIPTION  SECTION NO. 2  BUILDING WORKS  BILL No. 2  EARTHWORKS (PROVISIONAL)  NOTE:  The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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	For the Construction of Tshikota CRUs  DESCRIPTION  UNIT  SECTION NO. 2  BUILDING WORKS  BILL No. 2  EARTHWORKS (PROVISIONAL)  NOTE:  The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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 Summplentary Preambles to Model Preambles will be granted  EXCAVATION, FILLING, ETC  EXCAVATION, FILLING, ETC OTHER THAN BULK  Excavation in earth not exceeding 2m deep  Reduced levels under floors  Trenches  m3  Extra over trench and hole excavations in earth for excavation in  Soft rock  m3  Hard rock  m3	For the Construction of Tshikota CRUs  DESCRIPTION  UNIT QNTY  SECTION NO. 2  BUILDING WORKS  BILL No. 2  EARTHWORKS (PROVISIONAL)  NOTE:  The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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 Summplentary Preambles to Model Preambles will be granted  EXCAVATION, FILLING, ETC  EXCAVATION, FILLING, ETC OTHER THAN BULK  Excavation in earth not exceeding 2m deep  Reduced levels under floors  Trenches  m3  12  Extra over trench and hole excavations in earth for excavation in  Soft rock  m3  1  Hard rock  m3  1	For the Construction of Tshikota CRUs  DESCRIPTION  UNIT QNTY RATE  SECTION NO. 2  BUILDING WORKS  BILL No. 2  EARTHWORKS (PROVISIONAL)  NOTE:  The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction with and in the context of the obligations, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles for Trades of Summiplentary Preambles to the Model Preambles for Trades or Summplentary Preambles to Model Preambles for Trades or Summplentary Preambles to Model Preambles will be granted  EXCAVATION, FILLING, ETC  EXCAVATION, FILLING, ETC OTHER THAN BULK  Excavation in earth not exceeding 2m deep  Reduced levels under floors  Trenches  m3  12  Extra over trench and hole excavations in earth for excavation in Soft rock Hard rock m3  1

	SCHEDULE OF QUANTITIES		CONTRACT		PAGE 61
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ГЕМ	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	Extra over all excavations for carting away	. ,			
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located	km/m³	7		
	by the contractor				
	Risk of collapse of excavations				
15	Sides of trench and hole excavations not exceeding 1,5m deep	m2	35		
	Sides of trench and hole excavations exceeding 1,5m deep	m2			
	•				
	Keeping excavations free of water				
17	Allow for keeping all excavations free of water and mud	Item	1		
	EILLING ETG				
	FILLING ETC				
	G5 filling supplied by the contractor compacted to 98% Mod AASHTO density		_		
18	Under floors, steps, pavings etc	m3	5		
	Prescribed density tests on filling				
19	"Modified AASHTO Density" test	No	8		
	Earth filling obtained from the excavations and/or prescribed stock				
	piles on site, compacted to 93% Mod AASHTO density				
	Over site	m3			
21	Under floors, steps, pavings, etc	m3			
22	Backfilling to trenches, holes, etc	m <sup>3</sup>			
	Compaction of surfaces				
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			
0.1	Prescribed density tests on filling				
24	"Modified AASHTO Density" test	No			
	SOIL POISONING				
	Soil insecticide in accordance with SANS 5859				
25	Under floors etc, including forming and poisoning shallow	m2	28		
	furrows against foundation walls etc, filling in furrows and				
	ramming				
26	To bottoms and sides of trenches etc	m2	72		
		ļ			
	Carried to Summary				

	SCHEDULE OF QUANTITIES			No.	PAGE 62		
	For the Construction of Tshikota CRUs	B02/2021-22FY					
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT		
	SECTION NO. 2						
	BUILDING WORKS						
	BILL No. 3						
	CONCRETE, FORMWORK AND REINFORCEMENT						
	NOTE:						
	The Bidder must read each description, study the "specification of materials, methods to be						
	used, throughout this bills of quantities in conjuction 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						
	•						
	CONCRETE						
	(CPAP Work Group No. 110)						
	SUBSTRUCTURE						
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES						
	15MPa/20mm concrete						
27	Surface blinding under footings and bases	m3					
	· ·						
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES						
	30MPa/19mm concrete						
28	Foundations	m3	50		-		
29	Surface beds cast in panels on waterproofing (measured elsewhere)	m3	5		-		
	REINFORCED CONCRETE						
	30MPa/20mm concrete						
30	Slabs, including beams and inverted beams	m3					
	Stairs, including landings, beams and inverted beams	m3					
	Columns	m3					
	TEST CUBES						
33	Making and testing 150 x 150 x 150mm concrete strength test	No	5		-		
	cube (Provisional)						
	CONCRETE SUNDRIES						
	Finishing top surfaces of concrete smooth with a wood float/steel trowel						
	Surface beds, slabs, etc	m2	28				
	Finishing top surfaces of concrete smooth with a power float						
35	Surface beds, slabs, etc	m2	28				
	Core Drill						
36	Core drill through 250mm thick reinforced concrete						
	slab,100mm diameter.	No					
	Balance Brought Down						

	SCHEDULE OF QUANTITIES		CONTRACT		PAGE 63
ITEM	For the Construction of Tshikota CRUs DESCRIPTION	UNIT	B02/2021-22 QNTY	RATE	AMOUNT
IIEIVI	DESCRIPTION	UNIT	QNII	KAIL	AMOUNT
	Balance Brought Forward				
	Bulunoo Brought Formula				
	FORMWORK				
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	·				
	(CPAP Work Group No. 111)				
	Rough formwork to sides				
	Beams	m <sup>3</sup>	7		-
38	Columns	m <sup>3</sup>			
	CMOOTH FORMMORK (DECREE OF ACCHRACY III)	-			
	SMOOTH FORMWORK (DEGREE OF ACCURACY III) Smooth formwork to sides				
	Beams				
	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	16		_
-10	==goo, none, one and to todio not one could be good in the state of th		10		
	MOVEMENT JOINTS ETC				
	Isolation joints				
	Isolation joint in slabs 10mm wide sealed with and including polyurethane sealant	m	11		-
	Slip joints				
42	3mm tempered hardboard between horizontal concrete and	m	6		-
	brick surfaces not exceeding 300mm wide				
	REINFORCEMENT (PROVISIONAL)				
	(ODADW 10 N 440)				
	(CPAP Work Group No. 114)	-			
	Steel reinforcement to structural concrete work				
	Various diameter bars				<del>-</del>
	Mild Steel Bars				
	8mm	t	0		_
	10mm	t	0		-
	High tensil steel bars				
	10mm	t			
	12mm	t	0		-
	16mm	t	0		-
	20mm	t	0		-
	25mm	t	0		-
	Steel mesh reinforcement	<u> </u>			
44	Type 245 fabric reinforcement in brick walls with and including butterfly ties at every	m2	28		-
45	fourth course	0			
45	Fabric reinforcement in concrete surface beds, slabs, etc.	m2			
	PRECAST CONCRETE	-			
	Standard concor or equal pre-stressed concrete lintel bedded In mortar and				
	extending not less than 225mm on either side of opening	<b>†</b>			
	Precast Lintels	<u> </u>			
	110 x 75mm Lintels in lengths not exceeding 3m	m			
		1			
	Carried to Summary				
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	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 64
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO: 3				
	MASONRY				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	i reambles for trades of Supplementary Freambles to woder Freambles will be graffled				
	(CPAP WORK GROUP NO.118) unless otherwise stated				
	(OF AF WORK CROOF NO. 110) unices otherwise stated				
	BRICKWORK				
	IN FOUNDATIONS (PROVISIONAL)				
	Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar				
	115mm brick walls.	m2	19		_
	230mm brick walls.	m2	13		
10	200mm briok wants.	1112			
	IN SUPERSTRUCTURE				
	Brickwork of NFP bricks (14mpa minimum compressive strength) in class II mortar				
	115mm brick walls.	m2	15		
	115mm brick walls in beam filling.	m2			
	230mm brick walls.	m2	52		
	Brickwork reinforcement				
	75mm Wide reinforcement built in horizontally	m	95		-
	150mm Wide reinforcement built in horizontally	m	152		-
55	12mm Bitumen impregnated fibre board built in vertically between brickwork and	m2	8		-
	concrete surface bed				
	Turning pieces				
56	110mm Wide turning piece to lintels etc	m	12		-
	Galvanised hoop iron cramps, ties, etc	NI.	10		
57	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end	No	12		-
	built into brickwork				
	Comind to Common				
	Carried to Summary				

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 65
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 4				
	WATERPROOFING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 375 micron"Tarkon or equal approved" DPC embossed				
	damp proof course				
58	In walls	m2	14		-
	One layer of 250 micron "Tarkon or equal approved"				
	Gunplas USB Green waterproof sheeting sealed at				
	laps with " Gunplas Pressure Sensitive Tape"				
59	Under surface beds	m2	28		-
60	On bottoms and sides of ground beams	m2	16		-
	•				
	JOINT SEALANTS ETC				
	"Compriband" bitumen impregnated foam plastic				
	joint sealing strips				
61	10 x 10mm sealant in isolation joint	m	18		-
	25x20mm In joints between walls	m			
	Carried to Summary	1			
		1			
	I control of the second of the				

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 66	
	For the Construction of Tshikota CRUs		B02/2021-22	2FY		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	SECTION NO. 2					
	BUILDING WORKS					
	BILL NO. 5					
	ROOF COVERINGS ETC					
	NOTE:					
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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					
	PROFILED METAL SHEETING AND ACCESSORIES					
	Roof coverings					
	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					
	On roofs not exceeding 25 degrees pitch	m2	58			
64	Standard head wall flashing 185mm girth	m	5			
	ROOF AND WALL INSULATION					
	Carried to Summary					

	SCHEDULE OF QUANTITIES		CONTRACT	PAGE 67	
	For the Construction of Tshikota CRUs		B02/2021-22		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORK				
	BILL NO. 6				
	CARPENTRY AND JOINERY				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	ROOFS, ETC				
	Sawn softwood				
65	38 x 114mm Wall plates	m	12		
	Design, manufacture and deliver on site, plate nailed roof	Item.	1		
	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)				
	·				
	EAVES, VERGES, ETC				
	Pressed Fibre Cement				
	"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		
	SKIRTINGS				
	Wrought meranti				
	70 mm x 19 mm Meranti skirting with 19 mm quarter round, to receive varnish	m	36		
69	50 x 18mm Meranti comices nailed	m			
	DOORS, ETC				
	Wrought meranti doors			-	
	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		
	Solid core flush panel door with Masonite finish and concealed				
	hardwood edges				
71	813mm x 2032mm x 40mm.	No	1		
	Semi-Solid core flush panel door with Masonite finish and concealed				
	hardwood edges.				
72	813mm x 2032mm x 40mm.	No	3		
	Carried to Summary				

	SCHEDULE OF QUANTITIES CONTRACT No.			PAGE 68	
	For the Construction of Tshikota CRUs	B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL No. 7				
	CEILINGS, PARTITIONS AND ACCESS FLOORINGS				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	Infoder Fleatibles Torning part of triese bills of Quantities	-			
	No alaine arisine from here it of december or of items followed and in the entire Madel				
	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				
	LODAD WORK OROUGH NO 400)				
	(CPAP WORK GROUP NO.129) unless otherwise stated				
	CEILINGS, ETC				
	NAILED-UP CEILINGS				
	6 mm thick fibre cement cellulose board, nailed to 38 x 38mm battens				
	(450c/c) with 2mm galvanised or cadium plated clout headed nails				
	Complete with H-profile jointing strips.				
73	Ceilings including 38 x 38mm sawn softwood brandering at not	m2	28		
	exceeding 300mm centres in one direction				
	PLASTERBOARD				
	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				
	Horizontal ceilings, including 38 x 38mm sawn softwood				
	brandering at 450mm centres in one direction	m2	28		
	Diditioning at 10011111 0011100 111 0110 dilection		20		
75	Extra over ceilings for trapdoor size 650 x 650mm in clear including all sawn and	No	1		
10	wrot Pine framing, etc covered with ceiling board and fitted flush with ceiling	140	'		
	who it the framing, etc covered with ceiling board and fitted hush with ceiling				
	CORNICES				
	Masonite Cornices 75 x 10mm Masonite cornice, plugged	m	06		
10	75 x 19mm Masonite cornice, plugged	m	26		
	INICIH ATION	<b>-</b>			
	INSULATION	-			
	"Aerolite insulation" or other approved insulation	0	0.7		
17	40mm thick resin bonded glass fibre or rock mineral wool	m2	27		
		ļ			
	Carried to Summary				

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 69
	For the Construction of Tshikota CRUs  DESCRIPTION		B02/2021-22	2FY	
ITEM		UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 8				
	FLOOR COVERINGS, PLASTIC LININGS, ETC				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	(CDAD MODIC CDOLID NO 420)lees attended				
	(CPAP WORK GROUP NO.130) unless otherwise stated				
	FLOOR COVERINGS				
	120110012111100				
	Vinyl				
	2mm thick sheeting, or equal approved.Installed In accordance with				
	Manufacturers specification and recommendation				
	Colour: To Be Confirmed				
78	On floors and in door openings	m2	28		
	Polish, Sealer, Etc				
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.				
	0				
	Carried to Summary				

	SCHEDULE OF QUANTITIES CONTRACT No.			PAGE 70	
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 9				
	IRONMONGERY				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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		1		
	Preambles for Trades or Supplementary Preambles to Model Preambles will be granted		-		
	Preambles for Trades of Supplementary Preambles to Model Preambles will be granted				
	(CPAP WORK GROUP NO.132) unless otherwise stated	-			
	TOLAL MOUN ONOUL NO. 1977 MILESS OFFICENSE STATES	-			
	CATCHES, CABIN HOOKS, ETC				
	CATCHES, CADIN HOOKS, ETC		-		
90	Hat & Coat Hook Dubbar Duffer (ands: 15460)	No	1		
00	Hat & Coat Hook Rubber Buffer (code: 15469)	No	<u> </u>		
	LOCKS		-		
	LUCKS		-		
	Characteristic plated that large modifies largest				
	Chromium plated two lever mortice lockset				
	Cating sharped was plated those layers are entired by land and with a tribing a plate				
	Satin chromium plated three lever mortice lockset with striking plate				
01	CCmm Ctandard dauble adjuder (and a ICCOE0022220)	No	3		
01	66mm Standard double cylinder (code : IGG950933338)	No	3		
00	76mm Profile arch arch look (and a 720/60)	No	3		
02	76mm Profile arch sash lock (code: 730/68)	No	3		
02	Disabled Mortice indicator lock (code: 195/05)	Sets	1		
03	Disabled Mortice indicator lock (code. 135/05)	3612	<u>'</u>		
	HANDLES		-		
	HANDLES		-		
0.4	19mm Sanford I/on rose handle (code: EDD104C059)	Pairs	3		
04	1311111 Satilotu (von 1058 Hatiule (code. EDD 1040033)	ralls	3		
	DOOD CLOSED	-			
	DOOR CLOSER	<b>-</b>			
0.5	Standard dear closer / code: A71502D)	Coto	3		
85	Standard door closer ( code: AZ1503R)	Sets	3		
00	Standard arm & p/arm (code: AZ4001DA)	Soto	1		
00	Otahuanu ahni x pranni (COUC. AL400 IDA)	Sets	1		
07	DiOtes - bleech : #ee (eede: 420/00)	NIa			
8/	D/Stop rubber buffer (code: 139/69)	No	3		
	Balance Brought Down	ļ			

	SCHEDULE OF QUANTITIES CONTRACT No.				PAGE 71
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
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				
	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	No	1		
	pressed lid, welded container and cylinder lock (code 359909)				
	PVC				
95	Edge trims.	m	28		
	Carried to Summary				
	,				

	SCHEDULE OF QUANTITIES			CONTRACT No.			
	For the Construction of Tshikota CRUs		B02/2021-2	2FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT		
	SECTION NO. 2						
	BUILDING WORKS						
	BILL NO. 11						
	METALWORK						
	NOTE:						
	The Bidder must read each description, study the "specification of materials, methods to be						
	used, throughout this bills of quantities in conjuction 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						
96	813 x 2032mm overall Steel security gates formed of 40x60x2mm steel tubing	No	1				
	ingate sorround, 12mm diameter vertical steel rods welded to surrounds						
	DOOR FRAMES, DOORS, WINDOWS, ETC						
	PRESSED STEEL DOOR FRAMES						
	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 1				
	Carried to Summary						
	Carried to Summary						

	SCHEDULE OF QUANTITIES		CONTRACT	No	PAGE 73
	For the Construction of Tshikota CRUs		B02/2021-22		1710210
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
		27.11.	<b></b>	<u>-</u>	
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 12				
	PLASTERING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	SCREEDS				
	Screeds on concrete				
99	30mm thick wood floated on floors and landings	m2	43		
	GRANOLITHIC				
	Untinted Granolithic on concrete				
100	45mm thick finish on floors and landings	m2	2		
	EXTERNAL PLASTER				
	Cement plaster on brickwork	0	0.5		
101	On walls	m2	65		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
	On walls	m2	130		
102		1112	130		
103	On narrow widths not exceeding 300mm wide	m2	8		
100	on nanow within not exceeding bothin wite	1112	0		
	Cement plaster on concrete				
104	On projecting and isolated columns and beams	m2			
105	On ceilings	m2			
	On raking soffits of stairs	m2			
	Ť				
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
107	Aluminium tile edge strips	m			
108	30 x 3mm Flat section brass dividing strips between different floor finishes	m			
	Carried to Summary				

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 74
	For the Construction of Tshikota CRUs		B02/2021-22	PFY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 13				
	TILING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be used, throughout this bills of quantities in conjuction 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				
	WALL TILING				
	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 (elswhere 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 exceding 300mm width	m2	2		
	·				
	FLOOR TILING				
	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 tree surface				
	with tile adhesive grout				
112	On floors	m2			
113	Cut tiles to skirting 100mm high	m	5		
	•				
	Carried to Summary				

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 75
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 14				
	PLUMBING AND DRAINAGE				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	Interest Tournales forming part of those bine 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				
	Treambles for Trades of Supplementary Freambles to Moder Freambles will be granted				
	(CPAP WORK GROUP NO.148) unless otherwise stated				
	MOTAL WORK GROOF NO. 140) unicos otriciwise stated				
	RAINWATER DISPOSAL				
	Steel rainwater gutters and rainwater pipes				
11/	100 x 100 x 0.6mm powder coated steel rainwater gutters and downpipes	m	18		
114	fixed to roof structure as per manufacturer's specifications	1111	10		
	lixed to roof structure as per manufacturer's specifications				
115	Extra over 100x 100 x 0.6mm powder coated steel rainwater gutter for stopped end	No	2		
110	Latia over 100x 100 x 0.011111 powder coated steer fairtwater gutter for stopped end	INO			
116	Extra over 100 x 100 x 0.6mm powder coated steel rainwater gutter for outlet for	No	1		
110	75 x 75mm pipe	INO	'		
	75 x 75mm pipe				
117	400 400 disease to a significance		4		
117	100 x 100mm diameter rainwater pipes	m	4		
110	Extra over 100 x 100mm rainwater pipe for bend	No	2		
118	Extra over 100 x 100mm rainwater pipe for bend	No			
110	Fisher asses 100 st 100 mere resimilation after the color	Nie	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		
120	Latta over 100 x 100mm rainwater pipe for onsets	INU			
	Balance Brought Down				
	Datance Brought Down		<b> </b>		

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 76
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	Balance Brought Forward				
	SANITARY FITTINGS				
	Vaal or equally approved				
121	Vitreous china "orchid" closed coupled 90 degrees outlet	No	1		
121	wall hung open rim pan (code 438600) and matching 6 litre	INO	'		
	pushbutton top dual flush back inlet cistern (code 4386DT)				
	complete with lid, fitment and with bolt-through-the-wall				
	bracket (code 8084Z0)				
	pracket (code 8084ZU)		1		
122	Vaal code 7030 Bantam basin, size 340 x 460mm overall,	No	1		
	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				
122	"Vaal" Junior 104deg outlet washdown pan (code: 751300)	No	1		
123	and matching 6 litre cistern (code: 712034) complete with lid	INO	'		
	and fitments, and junior seat complete				
	and natione, and junior coar complete				
124	Ceramic fireclay 595 x455mm "cameo" oval self rimming	No	1		
	vanity basin with one tap and chainstay hole through the				
	centre semi-punched taphole supplied standard without an				
	overflow				
125	"Vaal Potteries" Orchid paraplegic wall hung WC suite	No	1		
126	Sanitaryware vitreous china sola 510 basin (code:	No	1		
120	703700) including 32mm standing overflow tube, chrome	110			
	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				
	The second secon				
127	Plexicor president 1700 cast acrylic perspex rectangular bath in opal finished with	No	1		
	chromium plated grip handles, overall size 1700 x 750 x 400mm deep				
455			<u> </u>		
128	Pre-assembled steel kitchen sink 1500mm x 535mm, finished with epoxy power	No	1		
	Balance Brought Down		-		
	Datatice Brought Down				

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 77
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	WASTE UNIONS ETC				
	"Cobra Watertech" or equal approved				
129	Sink waste (code 316)	No	1		
	· · · · · ·				
	TRAPS ETC				
	Dutton Plastic Engineering				
130	Anti vac bottle trap (code DB22A/V)	No	1		
131	Bath trap ( code 40PBC)	No	1		
	uPVC				
132	40 x 40mm flexi rubber waste trap	No	1		
	TAPS, VALVES, ETC				
	SANITARY PLUMBING				
	uPVC soil and vent pipes				
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				
	Extra over uPVC soil and vent pipes for fittings				
136	40mm junction	No	3		
137	40mm bend	No	2		
138	40 mm Nipple	No	3		
	Balance Brought Down			l	

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 78
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	Balance Brought Forward				
139	50mm bend	No	2		
110					
140	50mm juction	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				
	22mm, fittings	No	8		
	Balance Brought Down				

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 79
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	Balance Brought Forward				
	FIRE APPLIANCES ETC				
150	"Everyway" hose reel to comply with SABS 543, complete with 30m rubber hose,	No.	16		
	chromium plated stop cock, shut-off nozzle and wall bracket				
151	4.5kg Dry chimical powder fire extinguisher complete with brackets fixed to wall	No.	16		
	ELECTRIC HOT WATER HEATERS				
	4501 planting water heater complying with SARS 451 2002 gwarell size 1225 x 520mm				
	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.				
	Stockhold Portor Cupply man to allow min and y norm commodition on goyce.				
152	150 Litre geyser floor/wall electric water heater	No	6		
	• •				
	WATER METERS				
	Provide erf connections complete; Includes trench, bedding, backfill, pipe fittings, water				
	meter, sadles marker posts and all material, including work to complete the connection				
	(saddles to main pipe measured elsewhere ):	No	6		
	TESTING				
153	Allow for testing of all sanitary plumbing, water supplies and fire services to the	Item	1		
	satisfaction of the principal agent.				
	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 80
	For the Construction of Tshikota CRUs		B02/2021-2	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 15				
	GLAZING				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	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				
454	6,4mm safety glass	0			
154	Panes exceeding 0,1 and not exceeding 0,5m2	m2	8		
	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				
155	600 x 900mm high mirrors	No	1		
100	Jood & 300Hill High Hilli015	INU	+ '		
	Carried to Summary				
	Carried to Summary	1		l	

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 81
	For the Construction of Tshikota CRUs		B02/2021-22	FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SECTION NO. 2				
	BUILDING WORKS				
	BILL NO. 16				
	PAINTWORK				
	NOTE:				
	The Bidder must read each description, study the "specification of materials, methods to be				
	used, throughout this bills of quantities in conjuction 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				
	PAINTWORK, ETC TO NEW WORK ON				
	A				
	ON PLASTER, ETC.				
	Internal Walls				
	Prepare and apply, one coat primer, one coat universal under coat, and				
	two PVA (arcrylic) paint				
	On walls	m2	135		
157	On narrow widths	m2	5		
158	Ceilings.				
	External walls				
	Prepare and apply, one coat primer, one coat				
	universal under coat, and two PVA (arcrylic) paint				
159	On walls.	m2	65		
160	On narrow widths.	m2			
	ON CONCRETE				
	Prepare and apply, one coat primer, one coat universal under coat,				
	and two coats exterior quality PVA emulsion paint				
161	On soffits of concrete slabs.	m2			
	On raking soffits of stairs	m2			
	On projecting and isolated columns and beams	m2			
100	On projecting and isolated columns and beams	IIIZ			
	ON FIBRE-CEMENT				
	One coat primer and two coats professional acrylic polyvinyl acetate				
16/	Ceilings and cornices, including priming metal cover strips and nailheads	m2	28		
	On fascias and barge boards	m2	25		
103	On lascias and barge boards	IIIZ	23		
	ON METAL	<b>†</b>			
	Prepare surface and apply one coat Dulux Duraphos (or equal approved),	<del>                                     </del>	+		
	one coat Dulux Duragrip (or equal approved) and two coat Dulux	<del>                                     </del>	+		
	Silthane Silk enamel (or equal approved)	-			
100		m?	_		
	On door frames.	m2	6		
	Gates, grilles, burglar screens, balustrades, etc (both sides measured over full flat area)	m2	8		
168	On gutters and downpipes	m	12		
	ON WOOD ETC.	<del>                                     </del>	+		
		<u> </u>			
	Prepare surface and apply one coat Dulux Duragrip	<b></b>	1		
	(or equal approved) and two coats Dulux Silthane				
	Silk Enamel (or equal approved)	<u> </u>			
169	On doors	m2	7		
		<b></b>	1		
	Apply one undercoat and one coat high gloss paint.				
170	Back boards of fire extinguishers.	m2			
		ļ			
	ON PLASTER BOARD, HARDBOARD, ETC.				
	Sand down and apply two coats of Woodoc 30 Varnish				
	On doors.	m2	8		
172	70 mm x 19 mm Meranti skirting with 19 mm quarter round	m			
	Carried to Summary				

	SCHEDULE OF QUANTITIES		CONTRACT	No.	PAGE 82
	For the Construction of Tshikota CRUs		B02/2021-22	2FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	SUMMARY PAGE				
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		
	TOTAL SUMMARY PER UNIT				
			40		
	96)		16		

	SCHEDULE OF QUANTITIES		CONTRAC	T No.	PAGE 83
	For the Construction of Tshikota CRUs		B02/2021-2	22FY	
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT
	FENCING				
	Provide the amount as indicated for Clear View fence				
	and 2No. 5m sliding steel gates	m	770		-
	SOCIAL AMENITIES				
	Washing lines				
	Wash lines	No.	82		-
	Laundry basins	No.	82		-
	LANDSCAPING				
	Landscaping with all related street furniture	ITEM	1		400,000.00
	Playing area with swings	ITEM	1		250,000.00
	FIRE APPLIANCES ETC				
	"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		-
	Carried to summary				

	SCHEDULE OF QUANTITIES		CONTRACT No.		PAGE
	For the Construction of Tshikota CRUs		B02/2021-22FY		
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUN <sup>*</sup>
	FLECTRICAL MODICS (MV SURRI V. LV DETICILI ATION & SERVICE COMMECTIONS				
	ELECTRICAL WORKS (MV SUPPLY, LV RETICULATION & SERVICE CONNECTIONS				
	SCHEDULE 1				
	PRELIMINARY AND GENERAL				
1	SITE ESTABLISHMENT				
	Facilities for Contractor				
1.1	Office and Storage	sum	1		
1.2	Ablution and Latrine Facilities	cum	1		
1.2	Abidion and Latime Ladines	sum	1		
1.3	Water and Electricity	sum	1		
			•		
1.4	Site Clearing	sum	1		
1.5	Contractor's Yard Fencing				
4.0					
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		
	The state of the s				
2	TIME RELATED ITEMS				
2.1	Security (Monthly)	sum	5		
2.2	Insurance	sum	1		
	CONTRACT DELATED ITEMS				
<b>3</b>	CONTRACT RELATED ITEMS  Local Labour (monthly)	oum.	5		
3.1	Local Labout (Horitily)	sum	3		
4	COMMISSIONING				
4.1	Commissioning & Provision of Test certificates	sum	1		
5	Health & Safety (OHS Act, Construction Regulations and Eskom Safety Specifications)				
5.1	Personal protective equipment :	eum	1		
		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	Guiii	•		
		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		
6	Environmental Management				
6.1	Compliance to Environmental Management Plan	sum	1		
7	General				
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.				
	. 15 140 151 and Topan to damaged mater remodulation pipes and other combodied solvies.	sum	1		
	TOTAL - SCHEDIII E 4				
	TOTAL : SCHEDULE 1				
	CARRIED TO SUMMARY				
	VENTUED I V VVIIIII/III		1		ļ
				TOTAL	

	SCHEDULE OF QUANTITIES		CONTRACT No.		PAGE 85	
	For the Construction of Tshikota CRUs		B02/2021-22FY			
ITEM	DESCRIPTION	UNIT	QNTY	RATE	AMOUNT	
	SCHEDULE 2					
	MATERIAL, EQUIPMENT AND INSTALLATION					
2.1	MINIATURE SUBSTATIONS					
	To comply with Makhado Municipality specifications complete with all labels and locks:					
	a) 315kVA 22kV/420V type B miniature substation					
	i) Supply	no	1			
	ii) Install	no	1			
	b) 315kVA minisub precast plinths to Eskom Spec specifications					
	i) Supply	no	1			
	ii) Install	no	1			
	To comply with Makhado Municipality specifications complete with all labels and locks:					
	a) Ground Mounted Meter Kiosk					
	i) Supply	no	1			
	ii) Install		1			
		no	'	+		
	b) Ground Mounted Meter Kiosk Plinth		+	+		
		20	1	-		
	i) Supply	no	1 1	+		
	ii) Install	no	l l	+		
	c) Ring Main Unit - T3, to Eskom spec SAP No: 0180269					
	specifications			-		
		20	0	-	0.00	
	i) Supply	no	0	+	0.00	
	ii) Install	no	U	+	0.00	
	d) CTA/T Heit to Felicine and CAD No. 0475049		-			
	d) CT/VT Unit to Eskom spec SAP No: 0175942		0	+	0.00	
	i) Supply	no		+		
	ii) Install	no	0		0.00	
	e) CT/VT Unit Plinth to Eskom spec					
	i) Supply	no	0		0.00	
	ii) Install	no	0		0.00	
	0.115					
	Carried Forward			1		

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 86	
TEM	For the Construction of Tshikota CRUs  DESCRIPTION	LINIT	B02/2021-22FY UNIT QNTY RATE		AMOUNT	
I LIVI	Brought Forward	UNIT	QNII	IVAIL	AMOUN	
2.2	CABLES AND CONDUCTORS					
	To comply with Eskom / Makhado Municipality specifications					
	for cables and conductors					
	a) Medium voltage cable - 22kV, 95 mm² (XLPE) 3-core					
	Cu as per Makhado Municipality / Eskom Specifications		150			
	i) Supply	m	150			
	ii) Install	m	150			
	1) 1100011		100			
	b) Medium voltage cable - 185 mm² (XLPE) 3-core					
	Cu as per Eskom Specifications					
	i) Supply	m	0			
	ii) Install	m	0			
	a) 70 as was Bara Cannar Forth wire					
	c) 70 sq mm Bare Copper Earth wire i) Supply	m	150			
	і і очруну	III	150			
	ii) Install	m	150			
	, ···					
	Low-voltage cables:					
_	600/1000V grade cables as specified with integral earth conductors, [Part of cable					
	armouring] bearing SABS mark of approval.					
	a) 16mm² 2-core PVC/PVC/SWA/PVC cable with 2 x 1.5mm² comms cores					
	i) Supply	m	4830			
	ii) Install	m	4830			
	b) 46mm2 4 ages DVC/DVC/CWA/DVC cable cable for affectivity /D DL V/C cat D V D DL					
	b) 16mm² 4-core PVC/PVC/SWA/PVC cable cable for streetlight (R,BL, Y/G not R.Y,B,BL) i) Supply	m	800			
	i) συγριγ	111	000			
	ii) Install	m	800			
	c) 50mm² 4-core PVC/PVC/SWA/PVC cable					
	i) Supply	m	Rate Only			
	ii) Install	m	Rate Only			
	d) 70mm² 4-core PVC/PVC/SWA/PVC cable					
	i) Supply	m	520			
	7		323			
	ii) Install	m	520			
-	e) 120mm² 4-core PVC/PVC/SWA/PVC cable					
	i) Supply	m	Rate Only			
	TA hadall		Det - Orl			
	ii) Install	m	Rate Only			
	f) 6 sq mm Bare Copper Earth wire		1			
	i) Supply	m	5630			
	ii) Install	m	5630			
	a) 25 on mm Page Conney Fouth wire					
	g) 35 sq mm Bare Copper Earth wire i) Supply	m	520			
	і і очриу	m	520			
	ii) Install	m	520			
	Carried Forward				_	

	SCHEDULE OF QUANTITIES		CONTRACT No.		PAGE 87	
	For the Construction of Tshikota CRUs  DESCRIPTION	B02/2021-22FY				
ITEM		UNIT	QNTY	RATE	AMOUNT	
	Brought Forward					
	Blought Forward					
	h) 185mm² 4-core PVC/PVC/SWA/PVC cable					
	i) Supply	m	0			
	ii) Install	m	0			
	j) 240mm² 4-core PVC/PVC/SWA/PVC cable					
	i) Supply	m	0			
	ii) Install	m	0			
	k) 300mm² 4-core PVC/PVC/SWA/PVC cable					
	i) Supply	m	0			
	ii) Install	m	0			
	I) 16 mm² 3-core Cu,SWA low-voltage power cable for streetlight (R,BL, Y/G not R.Y,B,BL)					
	i) Supply	m	0			
	7					
	ii) Install	m	0			
	A S are 2 2 are On leave the annual for a between the first between the second					
	m) 1.5 mm² 3-core Cu low-voltage cable for photocell control i) Supply	m	50			
	і) Зарріў	III	30			
	ii) Install	m	50			
-				_		
	Carried Forward					

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 88	
ITEM	For the Construction of Tshikota CRUs  DESCRIPTION		B02/2021-22FY			
ITEM	Brought Forward	UNIT	QNTY	RATE	AMOUNT	
	Broaght 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 mm² 3-core, Cu, XLPE		_			
	i) Supply	no	8			
	ii) Install	no	8			
	b) MV-Joints for 95 mm² 3-core, Cu, XLPE, PVC					
	i) Supply	no	Rate Only			
	ii) Install					
	ii) iiiddii	no	Rate Only		+	
	c) MV-Terminations for 185 mm² 3-core, Cu, XLPE					
	i) Supply	no	0			
	ii) Install	no	0			
	d) MV-Joints for 185 mm² 3-core, Cu, XLPE, PVC					
	i) Supply	no	0			
	ii) Install	no	0			
	e) Indoor LV-Terminations for 16mm² x 4C, Cu,PVC/PVC/SWA/PVC Cable		40			
	i) Supply ii) Install	no no	16 16			
	II) IIIstali	110	10			
	f) Indoor LV-Terminations for 35mm² x 4C, Cu,PVC/PVC/SWA/PVC Cable					
	i) Supply	no	0			
	ii) Install	no	0			
	g) Indoor LV-Terminations for 70mm² x 4C, Cu,PVC/PVC/SWA/PVC Cable					
	i) Supply	no	24			
	ii) Install	no	24			
	h) Indoor LV-Terminations for 120mm² x 4C, Cu,PVC/PVC/SWA/PVC Cable					
	i) Supply ii) Install	no	0			
	ii) iiiStaii	no	0			
	j) Indoor LV-Terminations for 185mm² x 4C, Cu,PVC/PVC/SWA/PVC Cable					
	i) Supply	no	0			
	ii) Install	no	0			
	k) Indoor LV-Terminations for 240mm² x 4C, Cu,PVC/PVC/SWA/PVC Cable					
	SWA, PVC power cable for street lighting					
	i) Supply	no	0			
	ii) Install	no	0			
	I) Index I V Tominations for 200mm2 v 4C C:: DVC/DVC/CNIA/DVC C-LI-					
	I) Indoor LV-Terminations for 300mm² 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 300mm² x 4C, Cu,PVC/PVC/SWA/PVC Cable					
	SWA, PVC power cable for street lighting			1		
	i) Supply ii) Install	no no	0			
	ii) iiistaii	no	U			
	n) Indoor LV-Terminations for 16mm² x 2C, Cu,PVC/PVC/SWA/PVC Cable					
	i) Supply	no	276			
	ii) Install	no	276			
	Carried Forward					
	Carried Forward					

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 89
ITEM	For the Construction of Tshikota CRUs  DESCRIPTION		B02/2021-22FY UNIT QNTY RATE		AMOUNT
I I ⊏IVI	Brought Forward	UNIT	QIVIT	NAIL	AIVIOUN
	2.003.0.0				
	p) LV ends for 1.5 mm <sup>2</sup> 3-core Cu, PVC, SWA,PVC power cable				
	i) Supply	no	150		
	ii) Install	no	150		
2.4	STREET LIGHTING				
2.4	a) BekaLedlume or equivalent street light luminaire, complete wit 35WLED, 5A SP MCB,		+		
	, , , , , , , , , , , , , , , , , , , ,				
	wired and including outreach arm steel pole mounted i) Supply	no	50		
	і) оциріу	110	30		
	ii) Install	no	50		
	b) Ground Control boxes including Photocells and 10A breakers for control				
	of street lights				
	i) Supply	no	4		
	ii) Install	no	4		
	II) IIIstaii	no	4		
	c) 7.2m galvanized steel pole as per Makhado Municipality specification			1	
	i) Supply	no	50	1	
	ii) Install	no	50		
	TVA VIA TIANA ANI				
2.5	EXCAVATIONS MV				
	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.				
	a) Pickable soil				
	i) Excavate and backfill	m³	20		
	b) Soft rock				
	Excavate and backfill	m³	40		
	c) Hard rock				
	i) Excavate and backfill	m³	40		
	i) Excertite and backing		10		
	d) Drilling for sleeves under road surfaces (including excavation drill hole and sleeve)				
	i) Drill 160mm dia. for road crossing	No	4		
	e) Excavation of pole holes as specified - Lighting				
	i) Excavate and backfill	no	2		
	f) Imported Material (soft soil) for backfill			1	
	i) Supply	m³	100		
	ii) Backfill	m³	100		
	g) Install 160mm sleeve for road crossing excavation excluded				
	i) Supply	m	20		
	,		20		
	ii) Install	m	20		
	h) Install danger tape 300mm above all MV and LV feeder cables				
	i) Supply	m	150		
	ii) Install	m	150		
	Carried Forward				
	Garried Forward		+	+	

For the Construction of Tshikota CRUs  ESCRIPTION  Brought Forward	UNIT	B02/2021-22FY QNTY	RATE	AMOUNT
Brought Forward		QNTY	RATE	AMOUNT
•				
VAAVATIANA LV AARI E				
XCAVATIONS LV CABLE		<del>                                     </del>		
xcavations to be 0.6m x 0.45m x running meter				
I backfill material to be sift soil and compacted to				
0%MOD for trenches and 95%MOD for road		+		
rossings, prove of test to be provided.		+		
Pickable soil, by hand and machine	m³	43		
Excavate, backfill and compact	m	43		+
Soft rock, machine and pneumatic equipment		+		
Excavate, backfill and compact	m³	86		
Hard rock, blasting only				
Excavate, backfill and compact	m³	86		
) Imported Material (soft soil) for backfill				
Supply	m³	216		
Install	m³	216		
ERVICE CONNECTIONS				
s per specifications, complete with circuit breakers & meters installed ,				
Supply	no	24		
Install	no	24		_
Viock Lables engrave (50mm lettering)		+		
	no	24		
очругу	110			+
Install	no	24		
Eskom Master locks for Kiosk boxes				
Supply	no	24		
Install		- 04		
IIIS(dil	no	24		+
) S	RVICE CONNECTIONS  per specifications, complete with circuit breakers & meters installed ,  SPU , 3CR12 Metering kiosk, complete with plinth  Supply  Install  Kiosk Lables engrave (50mm lettering)  Supply  Install  Eskom Master locks for Kiosk boxes  Supply	REVICE CONNECTIONS  per specifications, complete with circuit breakers & meters installed ,  SPU , 3CR12 Metering kiosk, complete with plinth  Supply  no  Kiosk Lables engrave (50mm lettering)  Supply  no  Install  no  Eskom Master locks for Kiosk boxes  Supply  no	Install m³ 216  IRVICE CONNECTIONS  per specifications, complete with circuit breakers & meters installed ,  SPU , 3CR12 Metering kiosk, complete with plinth  Supply no 24  Install no 24  Kiosk Lables engrave (50mm lettering)  Supply no 24  Install no 24  Eskom Master locks for Kiosk boxes  Supply no 24	Install m³ 216  IRVICE CONNECTIONS Per specifications, complete with circuit breakers & meters installed,  SPU, 3CR12 Metering kiosk, complete with plinth  Supply no 24  Install no 24  Kiosk Lables engrave (50mm lettering)  Supply no 24  Install no 24  Install no 24  Install no 24  Install no 24  Install no 24  Install no 24

	SCHEDULE OF QUANTITIES	CONTRACT No.			PAGE 9
ITEM	For the Construction of Tshikota CRUs  DESCRIPTION	UNIT	B02/2021-22FY QNTY	RATE	AMOUN
I I LIVI	DESCRIPTION	ONIT	QNTT	IVAIL	AMOU
	Brought Forward				
2.8	OTHER EQUIPMENT(SPECIFY)				
	a) Overhead Structures				
	a) Overnead 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		
	h) Circuit brookers for ministure cubatetions				
	b) Circuit breakers for miniature substations complete with tails		+	+	-
	a) 300 A 3-phase 25 kA				
	i) Supply	no	0		
	ii) Install	no	0		
	a) 200 A 2 whose 25 kA				
	c) 200 A 3-phase 25 kA i) Supply	no	0		
	i) duppi)	110			
	ii) Install	no	0		
	d) 150 A 3-phase 25 kA				
	i) Supply	no	3		
	ii) Install	no	3		
	ii) iiiotaii	110			
	e) 100 A 3-phase 25 kA				
	i) Supply	no	0		
	ii) Install	no	0	1	
	f) 80 A 3-phase 25 kA		+	+	-
	i) Supply	no	0		
	ii) Install	no	0		
• • • • • • • • • • • • • • • • • • • •	FI FOTDIOTY OUDDLY A COMMENTATION				
2.9	ELECTRICITY SUPPLY & CONNECTION  Provision for application, facilitation and installation of		cum	1	+
	permanent electricity supply to development from Municipality		sum		
	parameter of the state of the s				
3.0	TEST and COMMISSIONING				
	Test and Commissioning of Entire reticulation		sum		
					1
	Material and Installation		+	+	
	Carried forward to Summary of Schedules				
	* 1 111 11			+	-

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

	SCHEDULE OF QUANTITIES		CONTRACT No.		PAGE 93	
	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 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	SUBTOTAL (Excluding VAT)					
3	ADD 15% VAT					
4	TOTAL SUMMARY CARRIED TO MAIN SUMMARY					

	SCHEDULE OF QUANTITIES		CONTRACT No.		
	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	m	1,600.00		
	450mm diameter (inclusive of catchpits)				
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				

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