



TENDER DOCUMENTS FOR A WORKS CONTRACT FOR
THE PROCUREMENT OF THE

**PROPOSED SADC STANDBY FORCE REGIONAL
LOGISTICS DEPOT AT RASESA, BOTSWANA, TO
ATTAIN INITIAL OPERATING CAPABILITY**

Addendum No. 2 to Volume 2 – Part A

TENDER NO: SADC /3 /5 /1 /49

Builder's Work - Buildings

Tenderers should note that the total quantities contained in the "Quantity" column in this document are the total quantities for all buildings to be constructed on site. The quantities apportioned to each of the buildings can be found below the item descriptions and are referenced as follows:

Guard House at the main entrance	denoted by	"A"
Administration Block	denoted by	"B"
Electrical Substation House	denoted by	"E"
Fuel Point	denoted by	"F"
Vehicle Maintenance Workshop	denoted by	"H"
Pump House	denoted by	"K"
Canteen and Kitchen	denoted by	"L"
Warehouses (2No.)	denoted by	"M"
Accommodation Hangers for 100 Soldiers	denoted by	"R"

SADC Standby Force Regional Logistics Depot at Rasesa

Item No		Quantity	Rate	Amount USD
<u>EARTHWORKS (PROVISIONAL)</u>				
<u>FILLING, ETC.</u>				
<u>Prescribed density tests on filling</u>				
A	"Modified AASHTO Density" test A: 2 B: 5 E: 1 F: 2 H: 5 K: 1 L: 5 M: 4 R: 6	No	31	
B	"Field Density" test, including "Optimum Moisture Content" (four readings per test) A: 0 B: 30 E: 10 F: 25 H: 30 K: 15 L: 40 M: 60 R: 50	No	260	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>CONCRETE CUBE TESTS (PROVISIONAL)</u>				
<u>Compressive strength of concrete</u>				
C	Set of six concrete test cubes each size 150 x 150 x 150mm cast from batch of concrete requested by the Engineer, made, stored, cured and tested in accordance with BS 1881 including use and waste of necessary cube boxes, taking to an approved testing authority for testing, paying all charges in connection therewith and submitting reports to the Engineer A: 5 B: 20 E: 4 F: 10 H: 12 K: 4 L: 17 M: 36 R: 28	Sets	136	
<u>PRECAST CONCRETE</u>				
<u>PRECAST CONCRETE COPINGS, SILLS, ETC.</u>				
<u>"Modcon" or equal and approved precast concrete finished smooth on exposed surfaces, including bedding, jointing, pointing and DPC</u>				
D	250 x 160mm Thick overall coping (Type 006) on top of one brick walls A: 28 B: 191 E: 0 F: 12 H: 119 K: 0 L: 144 M: 504 R: 0	m	997	
<u>CARPENTRY AND JOINERY</u>				
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INTERNAL WINDOW SILLS

12mm Thick Surinno solid surfacing on top of 16mm MDF base, fixed securely to brickwork

A	Bullnosed window sill, 190mm wide					
	A: 28	B: 191	E: 0	F: 12		
	H: 119	K: 0	L: 144	M: 298		
	R: 206				m	997

STRUCTURAL STEELWORK

VEHICLE MAINTENANCE WORKSHOP

Welded rafters of I-section members, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted to steel, including bolts, nuts and washers

B	Double pitched rafters of 406 x 140 x 39kg/m UB					
	A: 0.00	B: 0.00	E: 0.00	F: 0.00		
	H: 12.70	K: 0.00	L: 0.00	M: 0.00		
	R: 0.00				t	12.70

C	IPE 100 rafter welded to the main UB rafter					
	A: 0.00	B: 0.00	E: 0.00	F: 0.00		
	H: 0.80	K: 0.00	L: 0.00	M: 0.00		
	R: 0.00				t	0.80

Welded beams in single lengths with flat bearers and connection plates, bolted to steel, including bolts, nuts and washers

D	254 x 133 x 25kg/m I-section beams					
	A: 0.00	B: 0.00	E: 0.00	F: 0.00		
	H: 3.00	K: 0.00	L: 0.00	M: 0.00		
	R: 0.00				t	3.00

Welded columns in single lengths with flat base plate, capped top and cleats, bolted to concrete

E	457 x 191 x 67kg/m I-section columns					
	A: 0.00	B: 0.00	E: 0.00	F: 0.00		
	H: 11.65	K: 0.00	L: 0.00	M: 0.00		
	R: 0.00				t	11.65

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SADC Standby Force Regional Logistics Depot at Rasesa

Purlins, girts, bracing, etc., including bolts and nuts

A	80 x 80 x 6mm L-section bracing A: 0.00 B: 0.00 E: 0.00 F: 0.00 H: 0.69 K: 0.00 L: 0.00 M: 0.00 R: 0.00	t	0.69
B	125 x 50 x 20 x 2.5mm Cold formed lipped channel purlins, including 100 x 75 x 6mm angle cleats A: 0.00 B: 0.00 E: 0.00 F: 0.00 H: 4.28 K: 0.00 L: 0.00 M: 0.00 R: 0.00	t	4.28

Holding down bolts and base plates

C	550 x 350 x 12mm Thick base plate six-times drilled for M20 bolts A: 0 B: 0 E: 0 F: 0 H: 22 K: 0 L: 0 M: 0 R: 0	No	22
D	M20 Class 8.8 holding down bolt, 572mm long with 60mm top end with threads projecting above base plate and 70 x 70 x 12mm thick plate welded onto bottom end of bolt, including nut and washers, cast into top of reinforced concrete, including welding the bolts to anchor plate.	No	132

WAREHOUSES (2No.)

Welded rafters of I-section members, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted to steel, including bolts, nuts and washers

E	Double pitched rafter comprising 406 x 140 x 39kg/m UB A: 0.00 B: 0.00 E: 0.00 F: 0.00 H: 0.00 K: 0.00 L: 0.00 M: 37.32 R: 0.00	t	37.32
F	IPE 100 rafter welded to the main UB rafter A: 0.00 B: 0.00 E: 0.00 F: 0.00 H: 0.00 K: 0.00 L: 0.00 M: 2.20 R: 0.00	t	2.20

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SADC Standby Force Regional Logistics Depot at Rasesa

A	M20 Class 8.8 holding down bolt, 572mm long with 60mm top end with threads projecting above base plate and 70 x 70 x 12mm thick plate welded onto bottom end of bolt, including nut and washers, cast into top of reinforced concrete, including welding the bolts to anchor plate.	No	448
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METALWORK

SUNDRY STEELWORK

Bearers to brick linings, lintels, etc.

B	Lintels of two 90 x 90 x 8mm Thick mild steel angle sections welded together back to back with ends built into brickwork, primed		
	A: 33 B: 219 E: 2 F: 13		
	H: 137 K: 7 L: 165 M: 343		
	R: 236	m	1,156

PLUMBING AND DRAINAGE (PROVISIONAL)

RAINWATER DISPOSAL

EasyFlow Gutters Color coated Aluminum-Zinc gutters and downpipe, fixed in accordance with the manufacturer's instructions, including all gutter brackets, holder bats, flashings etc.

C	100 x 75mm Rainwater pipes		
	A: 39 B: 63 E: 7 F: 18		
	H: 95 K: 7 L: 111 M: 0		
	R: 111	m	451

D	Extra over for stopped end		
	A: 8 B: 8 E: 2 F: 4		
	H: 16 K: 2 L: 24 M: 0		
	R: 14	No	78

E	Extra over for outlet for 100 x 75mm pipe		
	A: 8 B: 8 E: 2 F: 4		
	H: 16 K: 2 L: 24 M: 0		
	R: 14	No	78

F	Extra over for bend		
	A: 8 B: 8 E: 2 F: 4		
	H: 16 K: 2 L: 24 M: 0		
	R: 14	No	78

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SADC Standby Force Regional Logistics Depot at Rasesa

A	Extra over for shoe A: 8 B: 8 E: 2 F: 4 H: 16 K: 2 L: 24 M: 0 R: 14	No	78
	<u>"Geberit Pluvia" or equal and approved rainwater roof outlets with contact sheets 25L/S</u>		
B	Vertical roof outlet A: 0 B: 4 E: 0 F: 0 H: 0 K: 0 L: 0 M: 0 R: 8	No	12
	<u>TRAPS, ETC.</u>		
	<u>Grade 304 stainless steel, similar to "Rofo Sales", floor traps</u>		
C	RO 200 V (H) NW100 floor drain size 200mm diameter x 340mm high overall, with removable grating and basket, permanent water seal, two 50mm diameter side inlets, 104mm diameter vertical outlet, including setting in pre-formed opening (opening elsewhere measured) through concrete slab, connecting to pipes, pipe-adaptors and solidly grouting the opening closed. A: 2 B: 6 E: 0 F: 0 H: 2 K: 0 L: 15 M: 8 R: 8	No	41
	<u>PAINTWORK</u>		
	<u>ON METAL SURFACES</u>		
	<u>Spot priming defects in pre-primed surfaces with steel primer, one coat universal undercoat and two coats Dulux Pearglo water-based enamel paint on</u>		
D	Steel members A: 120 B: 87 E: 4 F: 70 H: 200 K: 96 L: 127 M: 554 R: 95	m2	1,352
	<u>Spot priming defects in pre-primed surfaces with steel primer, one coat universal undercoat and two coats Dulux Eggshell enamel paint on</u>		
E	Door frames A: 21 B: 48 E: 9 F: 10 H: 14 K: 1 L: 43 M: 16 R: 100	m2	262

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A	Doors					
	A: 0	B: 0	E: 7	F: 0		
	H: 0	K: 15	L: 0	M: 0		
	R: 16				m2	37

ON WOOD SURFACES

Spot fill, sand down and prepare wood surfaces and apply one coat wood primer and two coats Dulux Eggshell enamel paint on

B	On doors					
	A: 98	B: 106	E: 0	F: 22		
	H: 50	K: 3	L: 83	M: 53		
	R: 137				m2	552

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Section No. 1

Bill No. 1

Addendum No. 1 to Volume 2 - Part A

COLLECTION PAGE

Total Brought Forward from Page No.

**Page
No**

**Amount
USD**

-1-

-2-

-3-

-4-

-5-

-6-

-7-

**Carried to Final Summary
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