



THE ROAD TRANSPORT AND SAFETY AGENCY

NON-COSTED ESTIMATES FOR:

1. CONSTRUCTION OF EXAMINATION SLABS (NDOLA AND KITWE)
2. CONSTRUCTION OF EXAMINATION SHELTER FOR SILVEREST
3. CONSTRUCTION OF BOUNDARY WALL FOR MIMOSA IMPOUND YARD
4. PAVING OF MIMOSA IMPOUND YARD

Item No		Qty	Rate	Amount
<u>SUBSTRUCTURE EXCAVATIONS/EARTHWORKS.</u>				
<u>EXCAVATIONS</u>				
<u>Keeping Excavations free from Water.</u>				
<u>Allow for keeping the excavations free from storm, surface water and mud by</u>				
a	<u>pumping and baling.</u>	Item		
b	Pumping subterranean water using pump of not exceeding 300 litres per hour capacity from a depth of not exceeding 1 metre.	Item		
<u>Site Clearance</u>				
c	Excavate to remove top soil and load, wheel and deposit where directed on site, average depth 150mm. 411m (perimeter of boundary wall) x 1m (width)	m ² 411		
<u>Imported Filling to make up levels</u>				
d	Laterite compacted to 95% MOD AASHTO 150 mm	m ³ 132		
<u>Excavation including maintaining and supporting sides and keeping excavations free from water, mud and fallen materials. Excavate trench for foundations trenches commencing at</u>				
<u>formation level.</u>				
e	not exceeding 0.6 metres deep.	m ³ 132		
<u>Extra on all excavations.</u>				
f	Extra over excavation in pickable material for excavation in hard pickable material or soft rock.	m ³ 5		
<i>carried forward</i>			ZMW	

			ZMW	
	<i>brought forward</i>			
g	Ditto for excavation in hard rock. <i>m³</i>	5		
h	<i>Disposal. Redig from spoil heap, return, fill and compact selected excavated material around foundations, to 95% MOD AASHTO.</i> <i>m³</i>	66		
i	Redig from spoil heap and remove off-site. <i>m³</i>	66		
j	<i>Imported Backfilling. Laterite compacted to 95% MOD AASHTO</i> <i>m³</i>	66		
k	<i>Anti-termite treatment. Chemical anti-termite treatment executed by an approved specialist to sides and bottoms of excavations</i> <i>m²</i>	698.7		
l	<u>Vibrated reinforced concrete class 25</u> Foundation Footing <i>m³</i>	36		
m	<u>Hollow concrete blockwork filled solid with mortar 1:4 mix in cement mortar</u> Two Courses Solid filled blockwork walling in foundations, overall thickness 150mm <i>m²</i>	192		
n	<u>26 Gauge mild steel "Brickforce" reinforcement laid horizontally in mortar joint</u> To walling, thickness 150 mm <i>m</i>	399		
	<i>carried forward</i>		ZMW	

	<i>brought forward</i>		ZMW	
	<u>FOUNDATION FOOTING REINFORCEMENT</u>			
	<u>Steel mesh fabric reinforcement to B.S. 4483</u>			
	Layer of mesh fabric reinforcement laid on top and bottom in slab or bed with 150mm side and end laps (measured nett-no allowance made for laps)			
o	. Conforce 257	m ² 219.45		
	<u>CONCRETE TESTING</u>			
	Allow for carrying out compressive strength tests on concrete cubes as described. Submit test results from UNZA School of Engineering Laboratory and/or any other recognized materials testing facility.			
p		Item		
	<u>SUBSTRUCTURE to section summary</u>		ZMW	

<u>Item No.</u>		<u>Qty</u>	<u>Rate</u>	<u>Amount</u>
	<u>SUPERSTRUCTURE WALLING</u>			
	Concrete blocks to Engineers details and specifications. Walling height 2.6m from NGL, thickness.			
a	150 mm	m ² 1037.4		
	26 Gauge mild steel "Brickforce" reinforcement laid horizontally in mortar joint. To walling, thickness.			
b	150 mm	m 1597		
	<u>SUPERSTRUCTURE WALLING to section summary</u>		ZMW	

<u>Item No</u>		<u>Qty</u>	<u>Rate</u>	<u>Amount</u>
	<u>SLIDING GATE INSTALLATION</u>			
	<i>Supply & installation of two sliding gates 6m long to detail as described in drawings. Gate fabrication to be of 75 x 75mm square tubes & 2mm flat sheets. Provide for roller wheels, roller rail, and associated locking mechanisms as described. Also include 800mm wide pedestrian access gate complete with barell locking mechanism.</i>			
a	6 m number	2		
	SLIDING GATE INSTALLATION to section summary		ZMW	

<u>Item No.</u>		<u>Qty</u>	<u>Rate</u>	<u>Amount</u>
	<u>CONCRETE ACCESS RAMP</u>			
	<i>Provide for installation of reinforced concrete access ramp 6m wide x 8m long x 200mm thickness to detail as described in drawings. Ramp to join with main access road into Mimosa Drive Circuit</i>			
a	Concrete Access Ramp m ³			
b	Conforce 257 m ²	48		
c	110mm diameter concrete drainage pipes m	12		
d	provide for shuttering & strutting item			
	CONCRETE ACCESS RAMP INSTALLATION to section summary		ZMW	

<u>DESCRIPTION</u>	<u>SUMMARY</u>	
	<u>PAGE</u>	ZMW
SUBSTRUCTURE EXCAVATIONS/EARTHWORKS.		
SUPERSTRUCTURE WALLING		
SLIDING GATE INSTALLATION		
CONCRETE ACCESS RAMP		
BOUNDARY WALL TOTAL	ZMW	
CONTINGENCIES		
MOBILISATION & DEMOBILISATION		
ADD 16% VAT		
TOTAL TO CONTRACTOR'S BID FORM		
SIGNATURE OF CONTRACTOR		
NAME OF FIRM & ADDRESS		
DATE		

Item No		Qty	Rate	Amount
<u>SUBSTRUCTURE EXCAVATIONS/EARTHWORKS.</u>				
<u>EXCAVATIONS</u>				
a	<p><u>Keeping Excavations free from Water.</u> <u>Allow for keeping the excavations free from storm, surface water and mud by pumping and baling.</u></p>	Item		
b	<p>Pumping subterranean water using pump of not exceeding 300 litres per hour capacity from a depth of not exceeding 1 metre.</p>	Item		
c	<p><u>Site Clearance</u></p> <p>Excavate to remove top soil and load, wheel and deposit where directed on site, to formation level. 50m (length) x 40m (width)</p> <p style="text-align: right;">m^2</p>	2000		
d	<p><u>Excavation including maintaining and supporting sides and keeping excavations free from water, mud and fallen materials. Excavate slab area commencing at formation level. 40m (length) x 30m (width) x 0.2m (depth)</u></p> <p>not exceeding 0.3 metres deep.</p> <p style="text-align: right;">m^3</p>	240		
f	<p><u>Extra on all excavations.</u></p> <p>Extra over excavation in pickable material for excavation in hard pickable material or soft rock.</p> <p style="text-align: right;">m^3</p>	1		
g	<p>Ditto for excavation in hard rock.</p> <p style="text-align: right;">m^3</p>	1		
h	<p><u>Disposal. Redig from spoil heap, return, fill and compact selected excavated material around foundations, to 98% MOD AASHTO.</u></p> <p style="text-align: right;">m^3</p>	60		
<i>carried forward</i>			ZMW	

	<i>brought forward</i>		ZMW	
i	Redig from spoil heap and remove off-site all unused material. <i>m³</i>			
j	<i>Imported Backfilling. Laterite compacted to 98% MOD AASHTO. Mechanically compact backfill to post compaction layer of 150mm.</i> <i>m³</i>	240		
k	<i>Anti-termite treatment. Chemical anti-termite treatment executed by an approved specialist to sides and bottoms of excavations. Treat 30m x 40m excavation for slab area.</i> <i>m²</i>	1228		
<i>SUBSTRUCTURE to section summary</i>			ZMW	

<u>Item No.</u>		<u>Qty</u>	<u>Rate</u>	<u>Amount</u>
	<u>CONCRETE SLAB - 25 Mpa</u>			
a	<i>Install 500 micron Polythene. Lay polythene sheeting to well compacted slab area after treatment with anti termite.</i> <i>m²</i>	1200		
b	<u><i>Provide for formwork (planking and strutting timber)</i></u> <i>Item</i>	192		
	<u>SLAB REINFORCEMENT</u>			
	<u><i>Steel mesh fabric reinforcement to B.S. 4483</i></u>			
c	<i>Layer of mesh reinforcement laid on top and bottom in slab or bed with 150mm side and end laps in edge beam (measured nett-no allowance made for laps)</i> <i>Conforce 257, not less than 5mm gauge</i> <i>m²</i>	1800		
	<i>carried forward</i>		ZMW	

	<i>brought forward</i>		ZMW	
d	<u>Vibrated reinforced concrete class 25 (25 Mpa). Provide for 25mm chamfers on all four sides. Include edge beam dimensioned as per drawing & reinforced accprdingly with conforce 257.</u>	m ³	123.6	
e	<u>Cast concrete slab in bays & provide 25mm width expansion joints filled with bitumen</u>	item		
d	<u>CONCRETE TESTING</u> Allow for carrying out compressive strength tests on concrete cubes as described. Submit test results from UNZA School of Engineering Laboratory and/or any other recognized materials testing facility. Provide concrete test results to the RTSA Project Manager	Item		
	CONCRETE SLAB to section summary		ZMW	

	DESCRIPTION	SUMMARY	
		<u>PAGE</u>	ZMW
	SUBSTRUCTURE EXCAVATIONS/EARTHWORKS		
	CONCRETE SLAB - 25 Mpa		
	CONCRETE SLAB TOTAL	ZMW	
	CONTINGENCIES		
	MOBILISATION & DEMOBILISATION		
	ADD 16% VAT		
	TOTAL TO CONTRACTOR'S BID FORM		
	SIGNATURE OF CONTRACTOR		
	NAME OF FIRM & ADDRESS		
	DATE		

Item No		Qty	<u>Rate</u>	<u>Amount</u>
<u>EXCAVATIONS & EARTHWORKS</u>				
<u>EXCAVATIONS</u>				
a	<u>Keeping Excavations free from Water. Allow for keeping the excavations free from storm, surface water and mud by pumping and baling.</u>	Item		
b	Pumping subterranean water using pump of not exceeding 300 litres per hour capacity from a depth of not exceeding 1 metre.	Item		
c	<u>Site Clearance</u> Excavate to remove top soil and load, wheel and deposit where directed on site, to formation level. Average depth 150mm. Mechanically compact cleared site to 98% MOD AASHTO	m ² 11978		
d	<u>Imported Backfilling. Laterite compacted to 98% MOD AASHTO. Mechanically compact backfill to post compaction layer of 150mm. Imported Laterite to cover area of 11978m².</u>	m ³		
e	<u>Extra on all excavations.</u> Extra over excavation in pickable material for excavation in hard pickable material or soft rock.	m ³ 5		
f	Ditto for excavation in hard rock.	m ³ 5		
g	<u>Disposal. Redig from spoil heap, return, fill and compact selected excavated material around foundations, to 98% MOD AASHTO.</u>	m ³ 599		
<i>carried forward</i>			ZMW	

	<i>brought forward</i>		ZMW	
h	Redig from spoil heap and remove off-site all remaining unused material. <i>m³</i>			
i	Anti-termite treatment. Chemical anti-termite treatment executed by an approved specialist to compacted laterite area. <i>m²</i>	11978		
	EARTHWORKS to section summary		ZMW	

<u>Item No.</u>		<u>Qty</u>	<u>Rate</u>	<u>Amount</u>
	<u>INSTALLATION OF CONCRETE PAVERS</u>			
a	Install 25Mpa interlocking concrete paving bricks on compacted sand bedding of 50mm. Height of the bricks should not be less than 80mm. <i>m²</i>	11978		
b	Concrete edging. Install perimeter & other edges of paved area to have concrete filling in order to ensure pavers are locked in place. <i>Item</i>			
	CONCRETE PAVERS to section summary		ZMW	

<u>DESCRIPTION</u>	<u>SUMMARY</u>	
	<u>PAGE</u>	ZMW
SUBSTRUCTURE EXCAVATIONS/EARTHWORKS		
CONCRETE SLAB PAVERS		
CONCRETE SLAB TOTAL	ZMW	
CONTINGENCIES		
MOBILISATION & DEMOBILISATION		
ADD 16% VAT		
TOTAL TO CONTRACTOR'S BID FORM		
SIGNATURE OF CONTRACTOR		
NAME OF FIRM & ADDRESS		
DATE		

Item No		Qty	<u>Rate</u>	<u>Amount</u>
<p><u>SUBSTRUCTURE EXCAVATIONS/EARTHWORKS & FOUNDATIONS.</u></p>				
<p><u>EXCAVATIONS</u></p>				
<p><u>Keeping Excavations free from Water. Allow for keeping the excavations free from storm, surface water and mud by pumping and baling.</u></p>				
a		Item		
<p>Pumping subterranean water using pump of not exceeding 300 litres per hour capacity from a depth of not exceeding 1 metre.</p>				
b		Item		
<p><u>Site Preparation</u></p>				
<p>Provide for breaking through existing slab, excavate 1.2m x 1.2m x 1m (depth), remove rubble & soil and load, wheel and deposit where directed on site.</p>				
<p><u>Imported Filling to make up levels</u></p>				
c	Laterite compacted to 95% MOD AASHTO			
	m ³	31		
<p><u>Excavation including maintaining and supporting sides and keeping excavations free from water, mud and fallen materials. Excavate trench for foundations trenches commencing at formation level.</u></p>				
d	not exceeding 1.2 metres deep.			
	m ³	31		
<p><u>Extra on all excavations.</u></p>				
e	Extra over excavation in pickable material for excavation in hard pickable material or soft rock.			
	m ³	2		
<p>carried forward</p>			<p>ZMW</p>	

	<i>carried forward</i>		ZMW	
p	Anchor bolts. 1m length, 16mm diameter <i>number</i>	72		
q	16mm steel plates for top & bottom fixing of anchor bolts <i>number</i>	36		
	<u>SAFETY COLUMN EXTENSIONS REINFORCEMENT</u>			
r	Stub column rebar. Y12 deformed bars bent as per drawing details. <i>m</i>	72		
s	Stirrups. R8 round bars bent as per drawing details <i>m</i>	108		
	<u>CONCRETE TESTING</u>			
t	Allow for carrying out compressive strength tests on concrete cubes as described. Submit test results from UNZA School of Engineering Laboratory and/or any other recognized materials testing facility.	Item		
	SUBSTRUCTURE to section summary		ZMW	

<u>Item No.</u>		<u>Qty</u>	<u>Rate</u>	<u>Amount</u>
	SUPERSTRUCTURE			
a	Provide for finishing of safety columns with black & yellow reflective pain, 150mm diagonal chevrons. 3 coats. <i>m²</i>	3.25		
b	Construction of steel examination shelter using 203x203x25 main steel universal beams, 100x50mm lipped channels, 50x50mm equal angles and IBR/IT4 roofing sheets & all connections - steel plates, welding, bolts & nuts 203 x 203 x 25 UB_13m <i>Number</i>	30		
	<i>carried forward</i>		ZMW	

<i>brought forward</i>			ZMW	-
c	150 x 50mm Lip channels 13m	m	90	
d	50 x 50mm equal angles	m	90	
e	IBR/IT4 Roofing sheets, 0.5mm - complete with fixing screws	m ²	600	
f	1m front Bullnosing, IBR/IT4, 0.5mm	m ³	60	
g	200 x 200mm (depth) Galvanized steel gutter installation complete with fastening brackets	m	20	
h	Installation of 150mm galvanized steel drainage pipes on either side of gutter complete with end shoes	m	9	
i	Provide for fabrication of 4 No. seating benches out of 50 x 50mm equal angles & hardwood timber finished with 2 coats varnish & black gloss paint for the framework.	item		
j	Provide for painting of entire steel shelter structure. Prime with red oxide 2 coats and finish with gloss banana yellow 2 coats	item		
k	Provide for installation of 5 No. x 150W LED lights fixed to steel roofing framework in each bay at the rear end of shelter overlooking into the shelter complete with switch & cabling, connected to main circuit at guard house.	item		
SUPERSTRUCTURE INSTALLATION to section summary			ZMW	-

<u>DESCRIPTION</u>	<u>SUMMARY</u>	
	<u>PAGE</u>	ZMW
SUBSTRUCTURE EXCAVS/EARTHWORKS/FDTNS.		
SUPERSTRUCTURE		
BOUNDARY WALL TOTAL	ZMW	
CONTINGENCIES		
MOBILISATION & DEMOBILISATION		
ADD 16% VAT		
TOTAL TO CONTRACTOR'S BID FORM		
SIGNATURE OF CONTRACTOR		
NAME OF FIRM & ADDRESS		
DATE		

MAIN SUMMARY

<u>SECTION</u>	<u>DESCRIPTION</u>	<u>Unit cost</u>	<u>No. of Units</u>	<u>Amount</u>
LOT 1	BOUNDARY WALL	_____	1	_____
LOT 2	EXAMINATION SLAB	_____	2	_____
LOT 3	CONCRETE PAVING	_____	1	_____
LOT 4	EXAMINATION SHELTER	_____	1	_____
	Sub-Total			_____
<u>CONTINGENCIES</u>				_____

TOTAL AMOUNT	(NET OF VAT)			_____
<u>Add:</u> Vat @ 16%				_____

TOTAL AMOUNT CARRIED TO FORM OF TENDER				=====

Name of Contractor : _____

Address : _____

Signature : _____

Date : _____