

MURAMATI ROBOTICS CLASSROOMS

ITEM	DESCRIPTION	UNIT	QTY	RATE	COST
	Classroom				
	<u>D. SITE CLEARANCE</u>				
	Clear area of new construction of all undergrowth, small bushes, grab up all trees and remove any existing structures and obstructions as directed.	m ²	121.00		
	<u>E. EARTHWORKS</u>				
	Excavate to a depth of 300mm to remove vegetable top soil; part set aside for backfill and remainder cart away	m ²	162.00		
	Excavate for strip footing commencing from reduced level: not exceeding 1.5 m deep; part set aside for backfill and remainder cart away	m ³	34.00		
	Backfill in trenches	m ³	22.78		
	Spread surplus materials as directed with 100 metres distance	m ³	173.22		
	Handpacked hardcore fill under floor slab in 250mm layers. Rates to include for compaction. Varying depth 300-800mm deep	m ³	157.00		
	50mm thick stone dust blinding to hardcore	m ²	111.00		
	Termidor 25EC anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	m ²	111.00		
	<u>DPM</u>				
	Gauge 1000 polythene damp proof membrane including 300mm laps minimum	m ²	111.00		
	<u>F. CONCRETE WORKS</u>				
	Blinding concrete class 15 below strip foundation, 50mm thick	m ²	34.00		
	Reinforced concrete class 20/20 to strip foundations 200mm thick	m ³	7.00		
	100mm thick reinforced concrete class 20/20 to slab	m ²	111.00		
	Class 20/20 to lintles	m ³	0.60		
	Class 20/20 to ring beam	m ³	3.00		
	<u>G. CONCRETE ANCILLIARIES</u>				
	Fair formwork to sides of the slab	m	53.00		
	200mm soffits to lintel	m ²	2.00		
	200mm deep formwork to lintels	m ²	6.00		
	300mm deep to ring beam and lintles	m ²	27.00		
	Total carried to Summary				0.00

ITEM	DESCRIPTION	UNIT	QTY	RATE	COST
	<u>Supply and fix steel bar in structural concrete work including cutting, bending, hoisting, tying wire, spacing blocks and supporting all in position as required</u>				
	Y10 in foundation strip	kg	288.00		
	Y12 to ring beam and lintel	kg	240.00		
	Y8 links to ringbeam and lintel	kg	107.00		
	Mesh fabric reinforcement				
	Mesh reinforcement No. A142 size 200 x 200 mm weighing 2.22 kg per square metre: in floor slab: including all necessary supports	m ²	111.00		
	Steel Columns				
	Supply and fix 76.2mm diameter by 3300mm long mild steel stanchion for verandah roof support including embedding in concrete floor and finished with one coat of zinc chromate primer and 2 coats of oil paint	kg	157.00		
	<u>Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.</u>				
	Natural stone to substructure	m ²	83.00		
	200mm thick Dressed stone walling	m ²	113.00		
	<u>Bituminous felt or other equal approved damp-proof course: in cement/ sand (1:3) mortar</u>				
	200 mm Wide	m	38.00		
	<u>Floor Finishes</u>				
	<u>Terrazo Floors</u>				
	40mm thick terrazo finish comprising of 20mm thick cement sand screed and 20mm thick terrazzo paving ground smooth and polished including 32x3mm dividing stripstrips	m ²	201.00		
	100mm high skirting	m	73.00		
	<u>Wall Finishes</u>				
	<u>Plaster: 15 mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to</u>				
	Internal walls	m ²	302.00		
	Total carried to Summary				

ITEM	DESCRIPTION	UNIT	QTY	RATE	COST
	<u>External cement and sand(1:3) render: steel trowelled: on masonry or concrete: to</u>				
	Recessed key to external walls	m ²	73.00		
	Plaster to lintel and ringbeam	m ²	15.00		
	Bag finish to beams	m ²	15.00		
	Plaster to exposed sides of slab	m ²	29.00		
	<u>Prepare surfaces: apply three coats of approved first grade plastic emulsion paint: on steel trowelled plaster: to</u>				
	Apply 2 under coats and one coat of first grade silk vinyl paint to internal plastered wall	m ²	302.00		
	Paint plastered external with black paint	m ²	5.00		
	Prepare and apply one undercoat and two finishingcoat of emulsion paint on	m ²	167.00		
	Black paint to black board	m ²	14.00		
	<u>Roofing</u>				
	<u>Supply, hoist and fix the following treated cypress roof members including gusset plates reinforcement of joints, scarf joints, hoop iron binding and nails all as necessary</u>				
	100x50mm Grade 2 cypress wall palte	m	30.30		
	150x50mm Grade 2 cypress	m	195.00		
	100x50 grade 2 cypress	m	72.00		
	75x50 grade 2 cypress purlins	m	122.10		
	250x25mm fascia board finished with one coat of wood primer and two coats of first grade gloss paint	m	46.00		
	<u>Roof Covering</u>				
	28 Gauge standard prepainted IT5 "MRM" roofing sheets coverng including edging trim, fixing to purlins, complete with approved washers, caps etc, including all necessary curvatures, hoisting, placing and connections	m ²	130.90		
	300mm girth 28G prepainted Galvanized ridge cap	m	21.00		
	Total carried to Summary				

ITEM	DESCRIPTION	UNIT	QTY	RATE	COST
F	<u>13mm Thick Gypsum ceiling on 50 x 50 mm brandering 600 mm centres including finishing in 100 x 25mm curved cornice.</u>				
	Ceiling: patterns to architects approval and detail	m ²	167.00		
	<u>Wrot prime grade cypress in:</u>				
	75 X 25mm moulded cornice with three labours plugged to wall	m	74.00		
	<u>Doors and windows</u>				
	<u>Supply and fix the following Ex-shop standard welded mild steel casement windows comprising of standard 25 x 25 x 3 mm Z section framing: complete with approved Brass fasteners, stays and all other necessary iron mongerv: including 75 mm perforated mild steel permanent vent and hood at the top infilled with mosquito wiregauze and all primed in one coat red oxide primer before delivery to site and all welds ground smooth including fixing lugs to masonry and/or beams bedded in cement and sand (1:3) mortar and pointing all round with mastic.</u>				
	1500x1200mm c/w with 4mm thick grazing	No	7.00		
	Fasteners	NO	14.00		
	Stays	NO	14.00		
	<u>Metal doors</u>				
	50mm thick single leaf wrot cypress panel door size 900x2100mm high fitted with 100 x 50mm grooved frames and painted with clear furnish ready to be fixed to position	NO	1.00		
	<u>Wndow Cills</u>				
	150mm wide by 50mm thick concrete window cill. Rate to include formwork, reinforcement and drip tap	m	10.50		
	<u>Rainwater goods</u>				
	<u>Galvanised iron metal sheet: gauge 24: pre- painted</u>				
	150x150mm Box gutter: fixed to fascia with and including steel flat brackets at 1500 mm (maximum) centres: holes for down pipes as necessary: closed ends: painted to approval	m	22		
	Total carried to Summary				

ITEM	DESCRIPTION	UNIT	QTY	RATE	COST
	<u>Supply and fix approved uPVC rain water system with solvent welded, seal ring or drv joints to manufacturer's instruction.</u>				
	uPVC rain water system; heavy gauge; 100 mm diameter grey rainwater down pipe.	m	12		
	Extra over ditto for 800 mm swan neck offset	nr	4		
	Ditto for shoe	nr	4		
	<u>Electrical</u>				
	Supply, install, test and commission the following :				
	Lighting points wired in 3 x 1.5 sq mm sc PVC copper cables as E.A drawn in 20mm diameter HG PVC conduits complete with all accessories	No	1.00		
	One way switching				
	<u>The installation should be full conduit work.</u>				
Item	The lightings should be LED and the socket should be 51	Unit	Qty	Rate	Shs
	<u>SUMMARY</u>				
	Lighting fittings complete with bulbs or tubes of appropriate wattage and colour rendering as follows: a) 1200mm 18W LED lighting, fitting as thorn or approved equivalent NO 14 2500 35,000.00 b) 600mm 9W LED lighting, fitting as thorn o	No	6		
	Power points in ring main wired in 3x2.5 sq mm SC PVC copper cables drawn in concealed 20mm diameter HG PVC conduits including all the necessary accessories	No	8		
	13A twin switched socket outlet plate ivory type as MK or approved equivalent	No	8		
	Install an eight (4) ways D.B with a 125 Amps MCCB as harvells type or approved equivalent	No	1		
	<u>MCBs as Crabtree or its approved equivalent:-</u>				
	6 Amps	No	2		
	20 Amps	No	2		
	Brought forward from page 1				
	Brought forward from page 2				
	Brought forward from page 3				
	Brought forward from page 4				
	Brought forward from page 5				
	Sub-total				
	Add 10% for Contingencies				
	Total				
	Add 16% VAT				
	TOTAL TENDER PRICE				