

## PR 4924982 MRU KISIAN ROOF REPAIR

### BILLS OF QUANTITIES

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These Bills of Quantities are supplied as part of the Contract for the

## PR 4924982 MRU KISIAN ROOF REPAIR

The Contract for the above mentioned works entered into on the ..... day of ..... 2016 by the undersigned parties refers to these Bills of Quantities consisting of those pages numbered on Page (i) and those drawings listed in the Particular Preliminaries which shall be read and construed as part of the said Contract.

.....  
(CONTRACTOR)

.....  
(EMPLOYER)

.....  
(Date)

.....  
(Date)

**SPECIAL NOTES**

1. The Contractor is required to check the numbers of the pages of these Bills of Quantities against the contents stated on page (i) and should he find any missing, in duplicate or indistinct, he must inform the Contracting officer at once and have the same rectified.
2. Should the Contractor be in doubt about the precise meaning of any item or figure, for any reason whatsoever, he must inform the Contracting Officer in order that the correct meaning may be decided before the date for submission of tenders.
3. No liability will be admitted or claim allowed in respect of errors in the Contractor's tender due to mistakes in the Bills of Quantities which should have been rectified in the manner described above.
4. The accurate ordering of materials is the sole responsibility of the contractor in accordance with the final drawings and the instructions from the Project Manager. No claim for any loss or expense will be entertained for orders for materials based upon Bills of Quantities.
5. The Bills of Quantities shall be priced as described in the Solicitation Documents.
6. These Bills of Quantities shall be treated as an addendum to the Solicitation Document and where any of the conditions or instructions in these Bills of Quantities contradict or are parallel to any other conditions in the Solicitation Document, the Conditions in the Solicitation Document shall override
7. Expenses incurred in preparation of this tender shall not be reimbursed.

**CONDITIONS OF TENDERING**

1. Tenders shall be submitted in the manner described and must be delivered to the place and at the time stated as directed in the Solicitation Document:
2. The Documents in this Bills of Quantities are as follows:
  - (a) Particular Preliminaries
  - (b) General Preliminaries
  - (c) Bills of Quantities
  - (d) Grand Summary
3. The words "approved tenderer" shall mean that the tenderer shall be approved by the Employer and shall have complied with these conditions in every respect.

The word "tenderer" in these conditions shall be deemed to include two or more persons. The word "his" may also mean "their" and the word "he" may also mean "they".

## PREAMBLES AND PRICING NOTES

### GENERAL SPECIFICATION

The works under this contract shall be carried out in accordance with the Ministry of works General Specification 1976 Edition.

MANUFACTURER'S NAME and references are given as a guide to quality. Alternative manufacture of equal quality will be accepted at the discretion of the Architect.

### EXCAVATION

Prices are to include for excavating in all materials met with except Rock as specified. Prices are also to include for planking and strutting, and for destroying all white ants nests and keeping excavations free from water.

#### Insecticide Treatment

Treating surface of hardcore with approved insecticide shall include execution by any reputable supplier/manufacturer who shall give a ten year guarantee to the Employer.

### CONCRETE WORK

#### Test Cubes

Allowance must be included in the tender for the preparation of concrete test cubes as required by the Engineer.

#### Precast Concrete Works

Prices are to include for handling reinforcement, and for bedding in cement mortar.

### WALLING

#### Concrete Blocks

All concrete walling blocks are to be in metric sizes and to the specified quantities.

Wall reinforcement shall be hoop iron, one layer per 90mm thickness, and placed in the bed joint of alternate courses.

#### Samples

Prices are to include for packing and sending sample blocks to the approved Testing Laboratory

**PREAMBLES AND PRICING NOTES (CONTD.)**

**ROOFING**

All roof materials shall be specified in the Bills of Quantities, and laid in accordance with the manufacturer's instructions.

**CARPENTRY AND JOINERY**

Cypress

The grading rules for cypress shall be the same as those for podocarpus.

Laminated Plastic Sheeting

Shall be fixed with an approved waterproof adhesive.

Prices of joinery

Shall include for pencil rounded arises; for protection against damage and for bedding frames and cills in cement mortar.

Plugged shall mean drilling walling or concrete with a drill and filling with proprietary plugs of the correct size

**IRONMONGERY**

Shall be as specified in the Bills of Quantities, or equal and approved.

Prices must include for removing and refixing during and after painting, for labelling all keys, and for fixing with matching screws.

**METAL WORK**

Generally

All steel work shall be cleaned free from rust and priced one coat or red lead primer before being delivered to the site.

Prices for Metal Windows

To include for assembling parts, bedding and pointing in mastic, building in fixing lugs, and plugging as necessary.

**PREAMBLES AND PRICING NOTES (CONTD.)**

**PLASTERWORK AND OTHER FINISHES**

Generally

All plaster work and paving to be as described in the Specifications and in the Bills of Quantities

Pavings

Prices are to include for brushing concrete clean, wetting and coating with cement and sand grout (1:1).

**GLAZING**

Polished Plate Glass

Shall be general Glazing Quality

Prime Rebates

Prices are to include for priming rebates before placing putty

Broken or Scratched Glass

The contractor will be responsible at his own cost, for replacing any broken or scratched glass and handing over in perfect condition.

**PAINTING**

Generally

Note that the General Contractor is to provide scaffolding for all trades including painting.

Paint category

Painting shall be applied in accordance with the manufacturer's instructions and to the required coats.

Prices

Prices are to include for all preparatory work, priming coats and for protecting other works and for cleaning up on completion. Prices for painting on galvanised metal are to include for mordant solution as necessary.

**PREAMBLES AND PRICING NOTES (CONTD.)**

**PLUMBING AND ENGINEERING INSTALLATION INCLUDING SOLAR PANELS**

Generally

All work shall be executed by an approved specialist and the General Contractor shall first obtain written approval from the Architect before engaging the specialist.

Description

The sizes given are internal diameter. the words 'pipe' and 'tube' are synonymous.

Prices of Sanitary Fittings

To include for assembling and jointing parts, plugging as necessary, and all joints to services and wastes or soil pipes.

**ROADS AND CAR PARKS**

All work must be supervised by an experienced Road Engineer or Foreman.

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**B I L L   N O . 1**  
**R E N O V A T I O N S   K I S I A N**

**PR 4924982 - MRU KISIAN ROOF REPAIR (DETAILED BILLS OF QUANTITIES)**

Ref.	Description	Quantity	Unit	Rate	USD
	<b><u>RENOVATIONS</u></b>				
	<b><u>DEMOLITIONS AND ALTERATIONS</u></b>				
	<b><u>DEMOLITIONS AND ALTERATIONS (ALL PROVISIONAL)</u></b>				
	<i><u>DEMOLITIONS (ALL PROVISIONAL)</u></i>				
	<u>Various locations</u>				
	Roofing				
A	Hack existing APP waterproofing membrane including screed below, mud, plants and prepare for laying a new screed	277	sm		
B	Hack existing APP waterproofing membrane including plaster below and prepare for laying a new plaster	62	sm		
C	Labour and material for unclogging gutters, downpipes and outlets		Item		
D	Labour and material for repairing any leakage on roofing tiles		Item		
E	Remove mortar from flashings on roof		Item		
F	Labour and material for dismantling existing decra roof including trusses and re-erecting it to approval of the Architect including all additional materials required	150	sm		
	Demolish existing ceiling finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
G	T & G eaves boarding	21	sm		
	Windows				
	Removing existing timber casement window, frames and glazing; making good disturbed surfaces to match existing; carting away unused materials from site				
H	Window size 2400 x 1000 mm high	2	No		
J	Window size 3200 x 1000 mm high	4	No		
K	Window size 4000 x 1000 mm high	2	No		
	External works				
L	Trim all trees to back off roof surfaces		Item		

Ref.	Description	USD
	DEMOLITIONS AND ALTERATIONS  Page No. 1	
KRC	To RENOVATIONS	

**PR 4924982 - MRU KISIAN ROOF REPAIR (DETAILED BILLS OF QUANTITIES)**

Ref.	Description	Quantity	Unit	Rate	USD
	<p><b><u>SUPERSTRUCTURE WALLING</u></b></p> <p><b><u>WALLING</u></b></p> <p><i><u>NATURAL STONEMWORK</u></i></p> <p><u>Approved local stone; squared; machine dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u></p> <p>Walls</p> <p>200 mm thick; reinforced with hoop iron gauge 500 in every alternative course</p>	38	sm		

Ref.	Description	USD
	SUPERSTRUCTURE WALLING  Page No. 3	

Ref.	Description	Quantity	Unit	Rate	USD
	<b><u>ROOFING</u></b>				
	<b><u>ASPHALT WORK</u></b>				
	<b><u>TILEROOFING</u></b>				
	<u>Imper-italia APP membrane rubber gutter water proofing finish or other equal and approved as supplied by Engineering supplies 2001 Limited</u>				
	Apply as per manufacturer's instructions to cement and sand screed base(m/s); to falls, cross falls or sloping not exceeding 15 degrees from horizontal				
A	Over 300 mm wide	277	sm		
	Apply as per manufacturer's instructions to cement and sand render(m/s)				
B	Over 300 mm wide	62	sm		
C	Extra over angle filleting	206	lm		
	<b><u>CARPENTRY</u></b>				
	<b><u>BOARDING</u></b>				
	<u>Wrot cypress; prime grade; pressure impregnated</u>				
	Boarding to eaves or the like; tongued and grooved joints; "veed" one side				
D	100 x 25 mm boards; horizontal; over 300 mm wide	21	sm		
	Quadrant bead				
E	25 x 25 mm; with one labour	70	lm		
	<b><u>ROOFCOVERING</u></b>				
	<b><u>TILEROOFING</u></b>				
	<u>Mild steel sheet; galvanised; 30 gauge</u>				
	Fixing with galvanised clout nails; 150 mm laps				
F	To sloping or vertical surfaces	150	sm		
	<b><u>PLASTIC GUTTERS AND DOWN PIPES</u></b>				
	<u>uPVC in</u>				
	Gutter coverings; fixing with galvanised screws				
G	Extra over down pipe for swan neck	4	no		
H	Extra over down pipe for horse shoe	4	no		
J	100mm diameter down pipe fixed to wall with and including approved holder bats	12	lm		
K	Extra over 100mm diameter cast iron fullbora outlet	4	no		

Ref.	Description	Quantity	Unit	Rate	USD
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>				
	<i><u>BEDS OR BACKINGS</u></i>				
	<u>Render; cement and sand (1:3)</u>				
	50 mm thick one coat backings; wood floated; to receive APP membrane (m/s); to concrete or blockwork base; generally to				
A	Walls; internal	62	sm		
	<u>Screed; cement and sand (1:3)</u>				
	50 mm thick one coat beds; wood floated; to receive APP membrane (m/s); to concrete or blockwork base; generally to				
B	Floors; level; external	277	sm		
C	Extra over angle filleting	206	lm		
	<b><u>PAINTING AND DECORATING</u></b>				
	<i><u>PREPARE AND APPLY APPROVED ALUMINIUM PAINT TO</u></i>				
	<u>Waterproofed surfaces</u>				
	Floors				
D	Over 300 mm girth; external	339	sm		
	<i><u>PREPARE AND APPLY TWO COATS 2-PACK MATT POLYURETHANE VARNISH; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></i>				
	<u>Timber surfaces</u>				
	Tongued and grooved surfaces				
E	Over 300 mm girth; external	21	sm		

PR 4924982 - MRU KISIAN ROOF REPAIR (DETAILED BILLS OF QUANTITIES)

Ref.	Description	USD
	ROOFING Page No. 5 Page No. 6	

Ref.	Description	Quantity	Unit	Rate	USD
	<p><b><u>WINDOWS</u></b></p> <p><b><u>CONCRETE WORK</u></b></p> <p><i><u>PRECAST CONCRETE</u></i></p> <p><u>Normal: class 20/(20mm): vibrated</u></p> <p>Sills</p> <p>150 x 50 mm ; once sunk weathered; once throated; reinforced as necessary for handling; surface finish 200 mm girth; bedding, jointing and pointing in cement mortar (1:4)</p>	4	lm		
A					
	<p><b><u>JOINERY</u></b></p> <p><i><u>WINDOWS</u></i></p> <p><u>Wrot Mahogany; prime grade; selected</u></p> <p>Supply, assemble and fix the following purpose made wrot mahogany timber casement windows with built in permanent vents at top and mosquito gauze to full length in tandard sections framing complete with architrave both sides,glazing beads ironmongery and fixing lugs to concrete or masonry wall jambs bedding in cement (1:3) mortar, pointing all round frames in mastic to match existing</p>	1	No		
B	Overall size 4000 x 800 mm high				
	<p><b><u>GLAZING</u></b></p> <p><i><u>GLASS IN OPENINGS</u></i></p> <p><u>Sheet: clear</u></p> <p>5 mm thick to wood with and including wooden beads</p>	3	sm		
C	0.5 to 1.0 square metres				
	<p><b><u>PAINTING AND DECORATING</u></b></p> <p><i><u>PREPARE AND APPLY ONE COAT APPROVED STAIN; THREE COATS 2-PACK MATT POLYURETHANE VARNISH; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></i></p> <p><u>Timber wood block surfaces</u></p> <p>Glazed timber windows</p>	3	sm		
D	Over 300 mm girth; internal				
E	Over 300 mm girth; external	3	sm		
KRC					

PR 4924982 - MRU KISIAN ROOF REPAIR (DETAILED BILLS OF QUANTITIES)

Ref.	Description	USD
	WINDOWS Page No. 8	

**PR 4924982 - MRU KISIAN ROOF REPAIR (DETAILED BILLS OF QUANTITIES)**

Ref.	Description	Quantity	Unit	Rate	USD
	<b><u>FINISHES</u></b>				
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>				
	<u>BEDS OR BACKINGS</u>				
	Render: cement and sand (1:3)				
	20 mm thick one coat backings; steel trowelled to a smooth surface to receive paint (m/s); to concrete or blockwork base; generally to				
A	Walls; internal	38	sm		
B	Walls; external	38	sm		
C	Labour and material for repairing existing cracks	50	lm		
	<b><u>PAINTING AND DECORATING</u></b>				
	<u>THOROUGHLY WIRE BRUSH AND CLEAN EXISTING SURFACE PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF SILK VINYL PAINT ON</u>				
	<u>Existing previously painted surfaces</u>				
	Walls				
D	Over 300 mm girth; internal	705	sm		
	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF PERMAPLAST PAINT ON</u>				
	<u>Rendered surfaces</u>				
	Walls				
E	Over 300 mm girth; external	38	sm		
	<u>THOROUGHLY WIRE BRUSH AND CLEAN EXISTING SURFACE PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u>				
	<u>Existing previously painted surfaces</u>				
	Ceilings				
F	Over 300 mm girth; internal	388	sm		
	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF SILK VINYL PAINT ON</u>				
	<u>Rendered surfaces</u>				
	Walls				
G	Over 300 mm girth; internal	38	sm		
	<u>THOROUGHLY WIRE BRUSH AND CLEAN EXISTING SURFACE PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF PERMAPLAST PAINT ON</u>				
	<u>Existing previously painted surfaces</u>				
	Walls				
H	Over 300 mm girth; external	206	sm		



**PR 4924982 - MRU KISIAN ROOF REPAIR (DETAILED BILLS OF QUANTITIES)**

Ref.	Description	USD
	RENOVATIONS DEMOLITIONS AND ALTERATIONS SUPERSTRUCTURE WALLING ROOFING WINDOWS FINISHES	

**PR 4924982 - MRU KISIAN ROOF REPAIR (DETAILED BILLS OF QUANTITIES)**

Ref.	Description	USD
	<p>Summary</p> <p>RENOVATIONS</p>	

**G R A N D S U M M A R Y**

			USD
<b><u>PR 4924982 MRU KISIAN ROOF REPAIR</u></b>			
<b><u>GRAND SUMMARY</u></b>			
<b><u>NO.</u></b>	<b><u>ITEM</u></b>	<b><u>PAGE NO.</u></b>	
1	- PARTICULAR PRELIMINARIES		
2	- GENERAL PRELIMINARIES		
3	BILL NO.1 - RENOVATIONS KISIAN	RN/13	
4	ALLOW A PROVISIONAL SUM OF TWO (2) PERCENT FOR CONTINGENCIES		
<b>SUB-TOTAL</b>			
<b>ADD 16% V.A.T</b>			
<b>NET GRAND TOTAL CARRIED TO FORM OF TENDER</b>			
CONTRACTOR .....			
Address .....			
Date .....			
WITNESS-Name .....			
(Signature) .....			
Address .....			
Date .....			