

**SUMMARY OF BILL OF QUANTITIES  
HA.KULHUFFUSHI KULI JETTY**

<b>Bill No</b>	<b>Description</b>	<b>Amount</b>
1	PRELIMINARIES	-
2	GROUND WORKS	-
3	CONCRETE	-
4	TIMBER AND ALLIED WORKS	-
5	ROOF COVERING	-
6	PAINTING	-
7	ELECTRICAL INSTALLATIONS	-
8	TENDERER'S ADJUSTMENTS	-
<b>GRAND TOTAL <i>carried to form of bid</i></b>		-

<b>BILL OF QUANTITY</b>
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Item	Description	Unit	Qty	Rate	Total
	<b>BILL NO: 01 PRELIMINARIES</b>				
<b>1.0</b>	<b><u>GENERAL NOTES</u></b>				
	Abbreviations m - Metre Nos - Numbers m <sup>2</sup> - Cubic Metre m <sup>3</sup> - Square Metre lm - Linear Metre Kgs - Kilograms Incl. - Including mm - Millimetre SS - Stainless Steel GI - Galvanised Steel				
<b>1.1</b>	<b><u>Site Management Cost</u></b>				
(1)	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings and similar.	Item	1		-
<b>1.2</b>	<b><u>Sign Boards</u></b>				
1)	Allow for Sign boards	Item	1		-
<b>1.3</b>	<b><u>Clean-Up</u></b>				
(1)	Allow for cleanup of completed works and site upon completion	Item	1		-
<b>BILL No: 01 - PRELIMINARIES</b>					-
<b>TOTAL OF BILL No: 01 - Carried over to summary</b>					-

Item	Description	Unit	Qty	Rate	Total
<b>BILL NO: 02 GROUND WORKS</b>					
<b>2.1</b>	<p><b><u>General</u></b>                      (a) Rates shall include for: levelling, Grading, Trimming, Compacting to faces of excavation, keeping sides plumb, backfilling, consolidating and disposing surplus soil.</p>				
<b>2.2</b>	<p><b><u>Site Clearing</u></b>                      (1) Clearing site including trees less than 0.5m girth complete with situmps and roots.</p>	Item	1		-
<b>2.3</b>	<p><b><u>Excavation</u></b>                      (a) Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork.                      Excavation for</p>				
(1)	Footing pad F-1	Item	1		-
2	Footing pad F-2	Item	1		-
<b>2.4</b>	<p><b><u>Back Filling</u></b>                      (a) Rates shall include for levelling, grading, trimming and compacting.</p>				
(1)	Backfilling to get level of	Item	1		-
<b>BILL No: 02 - GROUND WORKS</b>					-
<b>TOTAL OF BILL No: 02 - Carried over to summary</b>					-

Item	Description	Unit	Qty	Rate	Total
	<b>BILL NO: 03 CONCRETE</b>				
<b>3.1</b>	<b><u>General</u></b>				
	(a) Rates shall include for: placing in position; making good after removal of formwork and casting in all required items to conform to structural and excavated tolerances				
	(b) Rates shall include making and transporting of formwork, oil, nails				
	(c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:2:6 by volume.				
	(d) Rates shall include for: cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wire and chair supports, laps and wastage				
	(e) All reinforcing bars shall be high strength bars				
(1)	Allow for concrete testing	Item	1		-
<b>3.2</b>	<b><u>Reinforced Concrete</u></b>				
	Rate shall include for the reinforcement works and formworks as per the detailed drawings:				
	<b>In-situ</b> reinforced concrete to:				
<b>3.2.1</b>	<b><u>Footings</u></b>				
	Rate shall include for welded Angle piece as per the detailed drawing:				
(1)	Foundation Pad - (F1)	m <sup>3</sup>	1.75		-
2	Foundation Pad - (F2)	m <sup>3</sup>	5.28		-
3	GI 75x75 angle	nos	10		-
<b>3.2.2</b>	<b><u>Columns</u></b>				
(1)	Column -C1 encased with Di 200 PVC pipe	m <sup>3</sup>	4.6		-
<b>3.2.3</b>	<b><u>Attached Beams</u></b>				
(1)	Beam -B1	m <sup>3</sup>	4.5		-
(2)	Beam -B2	m <sup>3</sup>	8.54		-
<b>3.2.4</b>	<b><u>Ramp</u></b>				
(1)	Slab 150mm thick	m <sup>3</sup>	2.6		-
<b>3.3</b>	<b><u>Water proofing</u></b>				
(1)	Apply slurry type water proofing to all surfaces of concrete below ground level in accordance with site engineer instructions.	Item	1		-
<b>4</b>	<b><u>Formwork</u></b>				
	<b><u>General</u></b>				
	(a) Exposed surface shall have fair finish while remaining may have rough finish, and must be secured in a highly precise manner guaranteeing straight and smooth concrete edges				
	(b) Timber used for unexposed concrete surface shall sound dressed and seasoned good quality common timber while for exposed concrete surfaces dressed and matched boards uniformly thick and not more than 250mm wide.				
	(c) Plywood used for forms shall be of commercial standard, moisture resistant concrete form plywood not less than 6mm thick and at least 12mm thick.				
	(d) Rates shall include for; all necessary boarding, supports, erecting, framing, temporary cambering cutting, perforations for reinforcing bars, bolts, straps, ties, hangers, pipes and removal of formwork.				
<b>4.1</b>	<b><u>Footings</u></b>				
	Rate shall include for welded Angle piece as per the detailed drawing:				
4.1.1	Foundation Pad - (F1)	m <sup>2</sup>	28		-
4.1.2	Foundation Pad - (F2)	m <sup>2</sup>	137.6		-
<b>4.2</b>	<b><u>Columns</u></b>				
4.2.1	Column -C1 encased with Di 200 PVC pipe	nos	40		-

4.3	<u>Attached Beams</u>				
4.3.1	Beam -B1	m <sup>2</sup>	45		-
4.3.2	Beam -B2	m <sup>2</sup>	109		-
4.4	<u>Ramp</u>				
4.4.1	Slab 150mm thick	m <sup>2</sup>	1		-
5.0	<u>Reinforcement</u>				
	<u>General</u>				
	(a) All reinforcement bars except 6mm dia bars shall be of deformed high strength bars. 6mm bars shall be round mild steel bars.				
	(b) Binding wire shall be of 1.6 mm or 1.4 mm soft iron wire.				
	(c) Rates shall include for distribution steel, cleaning, fabrication, placing, the provision for all necessary temporary fixings, and supports including chairs and binding wire, laps and wastage.				
5.1	<u>Mainstructure</u>				
5.1.1	Pad footing, 1000 x 1000 x 250mm, F1 10mm dia deformed bars	kg	84.00		-
5.1.2	Pad footing, 800 x 800 x 250mm, F2 10mm dia deformed bars	kg	431.58		-
(5)	Ground Floor				
	Column, Di 200mm, C1				
5.2.1	16mm dia deformed bars	kg	1,540.00		-
5.2.2	6mm dia deformed bars	kg	200.00		-
6	<u>Attached Beams</u>				
	Beam -B1				
6.1.1	16mm dia deformed bars	kg	2,159.00		-
6.1.2	6mm dia deformed bars	kg	71.00		-
6.2.1	Beam -B2				
6.1.1	16mm dia deformed bars	kg	4,621.00		-
6.1.2	6mm dia deformed bars	kg	159.00		-
<b>BILL No: 03 - CONCRETE</b>					-

TOTAL OF BILL No: 03 - Carried over to summary					-
Item	Description	Unit	Qty	Rate	Total
	<b>BILL NO: 04</b> <b>TIMBER AND ALLIED WORKS</b>				
<b>4.1</b>	<b><u>General</u></b> (a) Rates shall include for: all fabrication work, welding, marking, drilling for bolts including those securing timbers, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws. (b) Rates shall include for all polishing and finishing as specified (c) Rates shall include for fabrication and erection and temporary supports and fixing into position				
<b>4.2</b>	<b><u>Timber railing (timber balau )</u></b> (1) Timber Railing @ the height of 1100mm in both sides as per the detailed drawing	m	106		-
<b>4.3</b>	<b><u>Timber Deck (timber balau )</u></b> Timber Deck, including all fixings and complete as shown in the drawings to;				
	(1) Deck Boards	m <sup>2</sup>	227		-
	(2) 200x75mm Timber boards	m	130		-
	(3) 12mm x150316 hex Bolts	nos	2500		-
	(3) 8mm x150316 hex Bolts	nos	1800		-
<b>4.4</b>	<b><u>Timber Roof structure(timber balau )</u></b> Timber roof structure, including all fixings and complete as shown in the drawings to;				
	(1) 100 x 100mm timber column	nos	16		-
	(2) 50 x 200mm timber beam	m	46		-
	(3) 50 x 200mm timber rafter	m	182		-
	(4) 25mm Facia Boards	m	33.3		-
<b>4.5</b>	<b><u>ALLIED WORKS</u></b>				
<b>4.5.1</b>	<b><u>Rubber Fenders</u></b> (1) Fabricate and install "MOORING BOLLARDS ss " as per the client specification	nos	6		-
<b>BILL No: 04 - METAL AND TIMBER WORKS</b>					-

<b>TOTAL OF BILL No: 04 - Carried over to summary</b>	-
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Item	Description	Unit	Qty	Rate	Total
	<b>BILL NO: 05 ROOF COVERING</b>				
5.1	<b>General</b> (a) Rates shall include for: fair edges,dressing over angel fillets, turning into grooves, all other labours, circular edges, nails, screws and other fixings and laps.				
5.2	(1) Roofing , inclusive of all fixtures, fixed in accordance with site engineer instructions	m <sup>2</sup>	88.9		-
	Joint cap	m	381		-
<b>BILL No: 05 - ROOF COVERING</b>					-

<b>TOTAL OF BILL No: 05 - Carried over to summary</b>	-
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Item	Description	Unit	Qty	Rate	Total
	<b>BILL NO: 06 PAINTING</b>				
<b>6.1</b>	<b>General</b>				
	(a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and / or masking floors, fittings and similar works				
	(b) All painting work shall be in accordance with the specifications				
<b>6.2</b>	<b>Timber Railing</b>				
(1)	Wood Lacquer paint of railing	m	106		-
<b>BILL No: 06 - PAINTING</b>					-



TOTAL OF BILL No: 06 - Carried over to summary

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Item	Description	Unit	Qty	Rate	Total
	<b>BILL NO: 07 ELECTRICAL INSTALLATIONS</b>				
<b>7.1</b>	<b>General</b>				
	(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories.				
	(b) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil.				
<b>7.2</b>	<b>Electrical wiring</b>				
(1)	mainconnection D board ( etc) including shed	item	1		-
(2)	Wiring with 2.5mm2 cable to lighting	points	10		-
(3)	Wiring with 2.5mm2 cable to socket swich	points	4		-
<b>7.3</b>	<b>Lighting</b>				
(1)	Wall mount light (weatherproof) jetty	nos	20		-
(2)	stair light ( waterproof) hut	nos	4		-
<b>7.4</b>	<b>Light switches</b>				
(1)	photocell sensor	nos	2		-
(2)	socket swich with cover,box	nos	4		-
	<b>BILL No: 07 - ROOF COVERING</b>				

<b>TOTAL OF BILL No: 07 - Carried over to summary</b>					-			
					-			
<b>Description</b>								
<b>Item</b>	<b>BILL NO: 08</b>				<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Total</b>
	<b>TENDERER'S ADJUSTMENTS</b>							
	(a) Provide detail description of work items under each bill and insert extra page if required							
	<b><u>ADDITIONS</u></b>							
	8.1 Preliminaries - Bill no:1							
	8.1.1 Ground works - Bill no:2							
	8.1.2 Concrete - Bill no:3							
	8.1.3 Timber and allied works - Bill no: 4							
	8.1.4 Roof Covering - Bill no:5							
	8.1.5 Painting - Bill no:6							
	8.1.6 Electrical installations - Bill no:7							
	8.1.7 <b><u>ADDITIONAL TOTAL</u></b>							-
	<b><u>OMISSIONS</u></b>							
	8.2 Preliminaries - Bill no:1							
	8.2.1 Ground works - Bill no:2							
	8.2.2 Concrete - Bill no:3							
	8.2.3 Timber and allied works - Bill no: 4							
	8.2.4 Roof Covering - Bill no:5							
	8.2.5 Painting - Bill no:6							
	8.2.6 Electrical installations - Bill no:7							
	8.2.7 <b><u>OMISSIONS TOTAL</u></b>							-
<b>BILL No: 08 - TENDERER'S ADJUSTMENTS</b>								
<b>TOTAL OF BILL No: 08 - Carried over to summary</b>								-
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