

## **KOODDOO HARBOUR EXTENSION PROJECT**

### **SUMMARY OF BILLS OF QUANTITIES**

<b>BILL NO</b>	<b>DESCRIPTION</b>	<b>MATERIAL AMOUNT MVR</b>	<b>LABOUR AMOUNT MVR</b>	<b>TOTAL AMOUNT MVR</b>
1	PRELIMINARIES	0.00	0.00	0.00
2	SHEETPILE WORK	0.00	0.00	0.00
3	DREDGING & EXCAVATION	0.00	0.00	0.00
4	BREAK WATERS	0.00	0.00	0.00
5	REVETMENT	0.00	0.00	0.00
6	CONCRETE SLAB	0.00	0.00	0.00
7	MOORING BOLLARDS	0.00	0.00	0.00
8	HARBOUR LIGHTS	0.00	0.00	0.00
9	JETTY HEAD REPAIR	0.00	0.00	0.00
10	ENVIRONMENTAL CONTROL	0.00	0.00	0.00
11	OTHER WORKS	0.00	0.00	0.00
<b>PROJECT VALUE TOTAL</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>GST 6%</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>GRAND TOTAL</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Prepared By, Contractor.....

Date/ Sign.....

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 01</b>						
<b><u>PRELIMINARIES</u></b>						
<b>1.1</b>	<b><u>GENERAL NOTES</u></b>					
<b>(1)</b>	<b><u>Abbreviations</u></b> m - metre Nos - numbers m <sup>3</sup> - cubic metre m <sup>2</sup> - square metre m - metre incl - including mm - millimetre					
<b>1.2</b>	Mobilization of contractor's dredging equipment and construction plant	1.00	Item			
<b>1.3</b>	Demobilization of contractor's dredging equipment and construction plant	1.00	Item			
<b>1.4</b>	Time related charges for contractors personal. (Including food, lodging etc.)	365.00	Days			
<b>1.5</b>	Establishment and removal of the contractor's facilities	1.00	Item			
<b>1.6</b>	Operation and maintenance of the Contractor's facilities	365.00	Days			
<b>1.7</b>	Provide as - Built drawings, Quality assurance documentation, Material Certificates, Technical	1.00	Item			
<b>1.8</b>	Provide detailed in-survey prior commencement of physical works	1.00	Item			
<b>1.9</b>	Provide detailed out-survey upon completion prior to hand over.					
<b>BILL No: 01 - PRELIMINARIES</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL OF BILL No: 01 - Carried over to summary</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 02</b>						
<b>2.0</b>	<b><u>SHEETPILE WORK</u></b>					
<b>2.1</b>	Sheetpiling in slipway sides up to a depth of -4.0 MSL with type FSP111 profiles or equivalent	60.00	m			
<b>2.2</b>	Concrete T-block quay wall up to a depth of -4.0 MSL	365.00	m			
<b>2.3</b>	Supply and install of Tie rod, Wales, bolts, nuts and washers.	425.00	m			
<b>2.4</b>	Reinforced Concrete Capping Beam, including reinforcement, formwork, expansion joints etc..	365.00	m			
<b>2.5</b>	Construction of 15 x 30m ramp for slipway as shown in the drawing	1.00	ls			
<b>2.6</b>	<b><u>PROTECTIVE COATING</u></b>					
<b>2.6.1</b>	Corrosion protection for all steel sheet piles. Blasted and applying of 1 coat of primer and 2 coats of TCN 300 (Brown & Black)	500.00	m			
<b>BILL No: 02 - SHEETPILE WORK</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 02- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 03</b>						
<b>3.0</b>	<b><u>DREDGING &amp; EXCAVATION</u></b>					
<b>3.1</b>	Dredging/Excavation of new harbour basin to a specified depth of -4.0m MSL.	33,300.00	m3			
<b>3.2</b>	Maintenance Dredging/Excavation of any material for the existing harbour basin and entrance channel, Maximum specified depth - 4.0m MSL.	56,216.00	m3			
<b>3.3</b>	Transfer excavation material to backfilling and reclamation areas.	89,516.00	m3			
<b>BILL No: 03 - DREDGING &amp; EXCAVATION</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 03- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
BILL No: 04						
4.0	<b><u>BREAK WATERS</u></b>					
4.1	Amour rocks laid to the slopes. Rates shall include levelling and placing armor rocks	325.00	m			
<b>BILL No: 04 - BREAK WATERS</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 04- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 05</b>						
<b>5.0</b>	<b><u>REVETMENT</u></b>					
<b>5.1</b>	Amour rocks laid to the slopes. Rates shall include levelling and placing armor rocks	87.00	m			
<b>5.2</b>	Implement necessary mitigation measures as outlined in the technical specifications	1.00	item			
<b>BILL No: 05 - REVETMENT</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 05- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 06</b>						
<b>6.0</b>	<b><u>CONCRETE SLAB</u></b>					
<b>6.1</b>	Concrete graded slab along the quay wall, after levelling and compaction of subgrade. 200 x 16m to a thickness of 0.20m	640.00	m3			
<b>6.2</b>	Reinforced concrete foundation works of new Jetty cranes	3.00	Nos			
<b>6.3</b>	Concrete graded slab in slipway, after levelling and compaction of subgrade. 30 x 15m to a thickness pf 0.2m	90.00	m3			
<b>BILL No: 06 - CONCRETE SLAB</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 06- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
BILL No: 07						
7.0	<b><u>MOORING BOLLARDS</u></b>					
7.1	Supply and install Single bit mooring bollards 10T	30.00	nos			
BILL No: 07 - MOORING BOLLARDS				0.00	0.00	0.00
TOTAL OF BILL No: 07- Carried over to summary						



Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
BILL No: 08						
8.0	<b><u>HARBOUR LIGHTS</u></b>					
8.1	Supply and install double arm harbour lights @ 20m interval	11.00	Nos			
8.2	Supply and install LED mercury light 1000W in existing repair jetty	8.00	nos			
BILL No: 08 - HARBOUR LIGHTS				0.00	0.00	0.00
TOTAL OF BILL No: 08- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 09</b>						
<b>9.0</b>	<b><u>JETTY HEAD REPAIR</u></b>					
<b>9.1</b>	Sheet piling up to a depth of -4.0m MSL with type FSPIII profiles or equivalent	30.00	m			
<b>9.2</b>	Supply & Installation of Tie rod, Wales, bolts nuts and washers	30.00	m			
<b>9.3</b>	Reinforced Concrete Capping Beam. Including reinforcement, formworks, expansions joints etc..	30.00	m			
<b>BILL No: 09 - JETTY HEAD REPAIR</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 09- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 10</b>						
<b>10.0</b>	<b><u>ENVIRONMENTAL CONTROL</u></b>					
	Rate shall include for all Environmental Management and Mitigation Measures					
<b>10.1</b>	Provide EIA/technical specifications.	1.00	Is			
<b>10.2</b>	Environmental Monitoring and Surveys	1.00	Is			
<b>10.3</b>	<b><u>DESIGN AND CONSULTANCY</u></b>					
<b>10.3.1</b>	Provide design and consultancy service for Quay wall and backfilling Shall include cost of EIA Approval	1.00	Is			
<b>BILL No: 10 -ENVIRONEMENTAL CONTROL</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 10- Carried over to summary						

Item	Description	Qty	Unit	MATERIAL AMOUNT	LABOUR AMOUNT	TOTAL AMOUNT
<b>BILL No: 11</b>						
<b>11.0</b>	<b><u>OTHER WORKS</u></b>					
<b>11.0.1</b>	Laying of seawater and freshwater line along the quay wall as shown in the drawing	1.00	Unit			
<b>11.0.2</b>	Establish a Permanent Survey Mark according to the standards of Maldives Land and Survey Authority (MLSA).	1.00	Unit			
<b>11.0.3</b>	Aligning of existing repair jetty to T-jetty line.	1.00	Unit			
<b>11.0.4</b>	Building a drainage system along quay wall	1.00	Unit			
<b>11.0.5</b>	Allow for providing all necessary Insurances and bonds	1.00	Ls			
<b>BILL No: 11 -OTHER WORKS</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
TOTAL OF BILL No: 11- Carried over to summary						



