

SECRETARIAT OF THE KULHUDHUFFUSHI CITY COUNCIL

**DEVELOPMENT OF STORM WATER DRAINAGE  
INFRASTRUCTURE AT KULHUDHUFFUSHI CITY**

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**BILL OF QUANTITIES**

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**Prepared by:  
Municipal Service Section**

**31-Aug-25**

**Development of Storm Water Drainage Infrastructure at Kulhudhuffushi City**

**SUMMARY OF BILL OF QUANTITIES**

Bill No.	Item Description	Amount
1	PRELIMINARIES	-
2	GROUND WORKS	-
3	CONCRETE & MASONRY WORKS	-
4	PIPING WORKS	-
5	ADDITIONS	-
6	OMISSIONS	-
	TOTAL MVR	-
	8% GST MVR	-
	GRAND TOTAL MVR	-

**Development of Storm Water Drainage Infrastructure at Kulhudhuffushi City**

<b><u>PREAMBLE TO BILL OF QUANTITY</u></b>					
Item	Description	Unit	Qty	Rate	Total
	<p><b>1. General</b></p> <p>a) The nature of this contract is measured unit price contract and the Bill of Quantity (BOQ) shall reflect this fact.</p> <p>b) BOQ shall be read and construed in conjunction with other Contract Documents</p> <p>c) The Tenderer is obliged to check the number of the pages of the Bill of Quantity and should any be found missing or duplicated or the figures or writing indistinct, the Tenderer must notify the Client/Engineer at once and have the matter rectified before the Tender is submitted. No liability whatsoever will be accepted in respect of any claim for errors in the Tenderer's offer resulting from failure to comply with the foregoing.</p> <p>d) The Tenderer is deemed to have visited the site/s and fully acquainted himself as to the location of each of the items and works to be carried out and to all conditions which may affect the performance of the works, including but not limited to:</p> <ul style="list-style-type: none"> <li>- Access to each of the roads where solid waste transfer process will be carried out, and Access for the dump site.</li> <li>- Restrictions applicable to working in Male City area.</li> <li>- All safety regulations and employer site safety procedures.</li> <li>- All Safety regulations.</li> </ul> <p>e) The Tenderer is also deemed to have surveyed the actual condition of the site and buildings and made his own assessment of the type and extent of the works prior to submitting his offer</p> <p>f) The contractor shall take all necessary permits for road closure during excavations and construction works.</p> <p>g) The contractor shall be responsible for any damages to the existing pipeline networks and electrical cabling networks during excavataion. Contractor shall bear any costs incurred for damage rectification.</p> <p>h) The contractor shall be responsible for any surveys required for the project. Surveys for levelling during construction stage should be done by the contractor.</p> <p><b>2. Quantities</b></p>				

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Even though that practical care was exercised in preparing the BOQ, but all quantities given herein shall be deemed to be estimated quantities of the work to be done but they are not to be taken as actual and correct quantities of the work to be executed and they are not to absolve the contractor of his obligations under the Contract. They are not to be taken as guarantee that the actual quantities increase or decrease, and any claim whatsoever submitted for cost or extra expenses incurred from such increase or decrease will not be accepted by Employer/Engineer except where else stipulated in the Contract.				
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<p><b>3. Materials</b></p> <p>All materials used are to be of the best new available and subject to the Employer/Engineer approval, and of durable nature, guaranteed, not liable to any base exchange and manufactured according to applicable BS, ASTM or DIN Standards. Execution also is subject to approval of Employer/Engineer and shall be the best available common practice in engineering codes at the time of execution.</p>				
<p><b>4. Unit Price and Currency</b></p> <p>The Unit Prices entered against the various items in the following Bill of Quantities include all operations for execution, completion and maintenance of the various items of the works finished completely in every respect till the final acceptance as specified or described in the Tender Documents, with or without modifications, either by way of additions or deductions, or alterations as may be offered in writing during the progress of the works, and include, without being limited to, all matters and things particularly referred to in the Tender Documents.</p> <p>The Unit Price shall cover all costs of every kind whatsoever including, without being limited to, all charges for additional site installations, relocation, supervision, labor, transportation and supply of materials; the provision, maintenance, use and efficient repair of all plant, equipment and appliance of every kind, the construction and maintenance of all temporary works, the performance of all services and the fulfillment of all obligations and responsibilities herein defined.</p> <p>The Tenderer shall be deemed to have fully considered all the conditions, obligations, and requirements of the Tender Documents before entering the respective unit price against the various items of the Bill of Quantities.</p>				

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<p>The Unit Prices given hereunder the BOQ shall also include erection, installation, fixing, and re-fixing of all elements. These prices shall also include taxes, visa for labor, gate passes, accommodations for the Contractor's staff and labors, all required insurance and work permits, guarantees, bonds, traffic plan requirements, safety procedures, etc. and all requirements necessary to have the work maintained until its final handing over.</p> <p>The Unit Prices given hereunder in the Bill of Quantity for this work shall also include overheads, risks, profit etc. and all other financial matters to have all these civil works completed.</p>					
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<b><u>BILL NO: 01 - PRELIMINARIES</u></b>					
Item	Description	Unit	Qty	Rate	Total
<b>1.1</b>	<b><u>General Notes</u></b>				
	<u>Abbreviations</u>				
	dia - diameter				
	GI - Galvanised Iron				
	incl - including				
	m - metre				
	m <sup>2</sup> - square metre				
	m <sup>3</sup> - cubic metre				
	mm - millimetre				
	nos - numbers				
	t - tonnes				
<b>1.2</b>	<b><u>Site Management Costs</u></b>				
	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings, fences, Crane/Concrete pump, Machinaries and similar items	item	1.00		-
<b>1.3</b>	<b><u>Sign Board</u></b>				
	Allow for sign board.	nos	1.00		-
<b>1.4</b>	<b><u>Safety</u></b>				
	Safety - Providing temporary fence with G.I. pipes/timber and clamps and GI roofing sheets around the work site during construction	item	1.00		-

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1.5	<b><u>Clean-up</u></b>  Allow for clean-up of completed works and site upon completion.	item	1.00		-
<b>BILL No: 01 - PRELIMINARIES</b>					
<b>TOTAL OF BILL No: 01 - Carried over to summary</b>					-

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<b><u>BILL NO : 02 - GROUND WORKS</u></b>					
Item	Description	Unit	Qty	Rate	Total
<b>2.1</b>	<b><u>General</u></b>  (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, additional working space and disposing surplus soil				
<b>2.2</b>	<b><u>Site Clearance</u></b>  Allow for removal of unwanted Trees, Shrubs. Relocation of Trees/palms inside the boundary if necessary.	item	1.00		-
<b>2.3</b>	<b><u>Excavation</u></b>  Allow for equipment, machinery and excavation with disposal of excavated materials.	m <sup>3</sup>	501.07		-
<b>2.4</b>	<b><u>Shore Protection/ Earth Work Support</u></b>  Install appropriate shore protection system to protect foundation of adjacent buildings and roads. If necessary, it shall include sheeting's and bracings required.	item	1.00		-
<b>2.5</b>	<b><u>Dewatering</u></b>  If necessary allow for appropriate dewatering system to give dry surface for concrete works. It shall include provision for pipeline, pumps and other dewatering equipment's and disposal as per local authority requirement.	item	1.00		-
<b>2.6</b>	<b><u>Back Filling</u></b>  Allow for leveling, grading, trimming and compacting. Compaction to be done in layers to provide the density required by the Project Supervisor. Precaution to be taken while compaction for the sub-structure and any service pipe lines or cables underneath. Drainage gravel fill will be provided by the client where required.	item	1.00		-
<b>BILL No: 02 - GROUND WORKS</b>					
<b>TOTAL OF BILL No: 02 - Carried over to summary</b>					-

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<b>BILL NO : 03 - CONCRETE &amp; MASONRY WORKS</b>					
Item	Description	Unit	Qty	Rate	Total
<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; additional concrete required to conform to structural and excavated tolerances				
	(b) Mix ratio for concrete shall be 1:2:3 (Cement:Sand:Aggregate), and mortar/ screed shall be 1:5 (Cement:Sand)				
	(c) Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete required to place the formwork.				
	(d) Unless otherwise stated, use ordinary Portland cement, Maldivian coral sand free from salt, and clean potable water for the concrete works				
	(e) All flooring and masonry works are to be done after proper compaction of soil				
	(f) All walls shall be solid cement blocks with a mix ratio of 1:5 (Cement:Sand), laid in stretcher bond				
	(g) Plastering shall be done with a mix ratio of 1:4 (Cement:Sand)				
	(h) Corrosion inhibitors and waterproofing admixtures shall be used according to the specifications of the manufacturer, during the construction of reinforced concrete structures to ensure their durability and performance				
<b>3.2</b>	<b><u>Stormwater Collection Pit</u></b>				
(1)	Allow for construction of concrete pit according to the specifications and drawings including reinforcement, formworks and lean	nos	2.00		-
(2)	600mm x 600mm steel grate for catch pit cover	nos	2.00		-
<b>3.3</b>	<b><u>Rain Garden</u></b>				
<b>3.3.1</b>	<b><u>Collection Well</u></b>				
(1)	Allow for construction of solid block masonry collection well with reinforced concrete cover according to the specifications and drawings	item	1.00		-
(2)	600mm x 600mm steel grate for catch pit cover	item	1.00		-
<b>3.3.2</b>	<b><u>Curb Wall</u></b>				
	Allow for construction of 2m concrete curb segments according to the specifications and drawings including reinforcement, formworks and lean	nos	36.00		-



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<b>3.4</b>	<b><u>Culvert</u></b>				
3.4.1	<u>Headwall</u>				
	Allow for construction of 150 thick reinforced concrete headwall according to the specifications and drawings including reinforcement, formworks and lean	item	1.00		-
3.4.2	<u>Frontwall</u>				
(1)	Allow for the construction of 1200mm block wall with screed and weatherproof paint finish according to the drawings and specifications	m2	6.48		-
3.4.3	<u>Masonry Trench</u>				
	(a) Allow for the construction of culvert trench using masonry blocks for the length of culvert specified				
(1)	100mm thick concrete screed floor laid onto compacted soil and graded according to the drawings and specifications	m2	85.26		-
(2)	150mm thick solid block walls with interior plastering	m2	395.50		-
3.4.4	<u>Concrete Channel</u>				
(1)	Allow for the construction of 150mm thick reinforced concrete culvert channel for the length of culvert specified, according to the drawings and specifications	m2	56.50		-
(2)	Allow for the construction of 150mm thick reinforced concrete culvert channel headwall according to the drawings and specifications	item	1.00		-
3.4.5	<u>Sluice Gate</u>				
	Allow for supply and installation of a mechanical sluice gate according to the drawings and specifications	item	1.00		-
<b>3.5</b>	<b><u>Junction Pit</u></b>				
	Allow for construction and installation of concrete junction pits and covers according to the specifications and drawings including reinforcement, formworks and lean	nos	17.00		-
<b>BILL No: 03 - CONCRETE &amp; MASONRY WORKS</b>					
<b>TOTAL OF BILL No: 03 - Carried over to summary</b>					
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<b><u>BILL NO : 04 - PIPING WORKS</u></b>					
Item	Description	Unit	Qty	Rate	Total
<b>4.1</b>	<b><u>General</u></b>				
	(a) Provide and install plumbing network for the drainage lines in accordance to the standards set by the MWSC				
	(b) The cost shall include for; sockets, running joints, connectors, elbows, junctions, reducers, expansion joints, back nuts and similar, incidental fittings, clips, saddles, brackets, straps, hangers, screws, nails , pvc glues, threadseals and fixing, including cutting and forming holes				
	(c) The PVC pipes required for the project shall be supplied by the Client				
	(d) All pipes shall be leveled according to the specifications of the client to achieve adequate drainage				
	(e) Due diligence is to be practiced during excavation for the pipes to avoid conflict with existing pipe and cable networks				
<b>4.2</b>	<b><u>Drainage Pipeline</u></b>				
4.2.1	Installation of 8" dia PVC pipeline according to the drawings and specifications <i>Pipes will be supplied by the client (Council)</i>	m	227.00		-
4.2.2	Supply and installation of 12" dia HDPE pipeline according to the drawings and specifications	m	82.51		-
<b>BILL No: 04 - PIPING WORKS</b>					-
<b>TOTAL OF BILL No: 04 - Carried over to summary</b>					-

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<b><u>BILL NO : 05 - ADDITIONS</u></b>					
Item	Description	Unit	Qty	Rate	Total
5.1	<b><u>General</u></b>  <b><u>Provision to include quantities as per the drawing which is missed in the bill of quantities.</u></b>				
BILL No: 05 - ADDITIONS					-
TOTAL OF BILL No: 05 - Carried over to summary					-

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<b><u>BILL NO : 06 - OMMISIONS</u></b>					
Item	Description	Unit	Qty	Rate	Total
6.1	<b><u>General</u></b> <b><u>Provision to remove the excess quantity given in the bill quantities if any as per the drawing details</u></b>				
BILL No: 06 - OMMISIONS					-
TOTAL OF BILL No: 06 - Carried over to summary					-