

OUTDOOR SHOWER STATION — BILL OF QUANTITIES (BOQ) & BID DOCUMENTATION



ދިވެހިސަރުކާރުގެ ގެޒެޓް
ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ ގުޅިގެން

Secretariat of Goidhoo Council
North Miladhunmadulu, Republic of Maldives



SECTION 1: INVITATION TO BID & PROJECT OVERVIEW

1-1 Project Title

Construction and Installation of Outdoor Shower Station

1-2 Summary of Scope

The work comprises the complete construction, supply, assembly, plumbing connection, and finishing of an outdoor shower unit, featuring:

Reinforced Concrete C-Frame & Foundation Pad: Reinforced concrete structure (Grade C35/45) with T12 high-yield rebar and R8 shear stirrups.

Wall Slat Panel & Decking Platform: Wood slat wall panel on metal framing and composite timber decking platform on a reinforced frame.

Plumbing System & Fixtures: Concealed 1/2" PVC water supply lines, thermostatic pressure-balancing mixer valve with diverter, overhead rain shower head (in canopy), and handheld shower wand with hose.

Drainage Bed: Graywater collection pan, sub/tier drain line, and gravel/pebble drainage bed.

1-3 Key Technical Specifications

Concrete: Grade C35/45

Rebar: Grade B500B (Main T12 @ 150 mm c/c, Shear Stirrups R8 @ 200 mm c/c)

Concrete Cover: Minimum 35 mm cover to rebar

Fixings & Fasteners: All fixings Stainless Steel Grade A4

Plumbing: 1/2" PVC barrier pipe, working pressure 40–60 PSI, integrated backflow prevention device, minimum 2% slope to drain.

Overall Dimensions:

Total Height: 2,400 mm

Canopy Overhead Reach: 900 mm

Platform Width: 1,200 mm

Overall Gravel Bed Area: 1,800 mm × 1,600 mm (or 1,605 mm × 1,200 mm footprint per detail plan)

SECTION 2: BILL OF QUANTITIES (BOQ)

Item	Description	Unit	Qty	Amount
1-0	SUBSTRUCTURE & EARTHWORKS			
1-1	Site clearance, site preparation, and excavation for concrete foundation pad and gravel drainage bed (1,800 x 1,600 mm footprint).	m ³	1.20	
1-2	Supply and compaction of sand/gravel sub-base under concrete pad.	m ³	0.30	
1-3	Supply and installation of black pebble / washed gravel drainage bed around deck platform	m ³	0.45	
2-0	CONCRETE & REINFORCEMENT WORKS			
2-1	Formwork setup and dismantling for concrete foundation pad, C-frame column, and overhead canopy (2,400 mm height, 900 mm canopy reach	m ²	9.50	
2-2	In-situ reinforced concrete Grade C35/45 for C-Frame structure and foundation pad (35 mm minimum concrete cover).	m ³	0.65	
2-3	Supply, cutting, bending, and tying of Grade B500B high-yield rebar: Main reinforcement T12 @ 150 mm c/c and shear stirrups R8 @ 200 mm c/c	kg	68.00	
2-4	Supply and embedded installation of A4 Stainless Steel threaded cast-in inserts, fixing plates, and anchor bolts	Set	1	
3-0	WOOD & METAL TIMBER DECKING & WALL SLATS			
3-1	Internal structural metal support channels/frame fixed to concrete C-frame for mounting timber slats	Item	1	
3-2	Outdoor grade wood slat wall paneling system including backing frame, fasteners, and weather-resistant protective finish	m ²	2.88	

3-3	Composite timber decking platform (1,200 mm width) on reinforced composite/metal sub-frame.	m ²	1.44	
4-0	PLUMBING & SANITARY FIXTURES			
4-1	Concealed 1/2" PVC barrier pipe water supply lines (Hot & Cold intake lines) embedded inside C-frame structure to mixer valve.	L.M.	6.50	
4-2	Thermostatic / pressure-balancing mixer valve with integrated two-way diverter control	No.	1	
4-3	Flush-mounted overhead rain shower head installed into concrete canopy soffit.	No.	1	
4-4	Handheld shower wand, flexible stainless-steel hose, wall bracket, and water outlet connection.	Set	1	
4-5	Backflow prevention device and inline pressure regulating valve (40-60 PSI operating range)	Set	1	
4-6	Graywater collection pan under decking platform connected to sub/tier drain line sloped at min. 2% to drainage bed	Set	1	
5-0	TESTING, COMMISSIONING & CLEANING			
5-1	Hydrostatic pressure testing of PEX water supply lines and functional testing of shower fixtures.	Item	1	
5-2	Final site clean-up, timber sealing, and handover.	Item	1	
	TOTAL BID AMOUNT			

SECTION 3: INSTRUCTIONS TO BIDDERS & SUBMISSION REQUIREMENTS

3.1 Form of Tender

- Bidders must complete the Unit Rates and Total Amounts for all items listed in the Bill of Quantities above.
- Rates quoted must include supply of all materials, labor, machinery, tools, transportation, overheads, and taxes.

3.2 Required Technical Submittals

1. Material Data Sheets:

- Concrete Mix Design Certificate (Grade C35/45).
- Mill Test Certificates for Rebar (Grade B500B) and Stainless-Steel Grade A4 Fixings.
- Specification sheets for Thermostatic Mixer Valve, Overhead Rain Shower, Handheld Wand, and 1/2" PVC barrier piping.
- Timber / Composite Decking durability rating and finish specifications.

2. Method Statement:

- Concrete pour strategy for cantilever C-Frame (including rebar positioning and cover block placement).
- Waterproofing and concealed plumbing installation strategy.

3. Project Schedule: Timeline detailing mobilization, formwork/rebar setup, concrete pour/curing, plumbing installation, decking installation, and commissioning