

BILL OF QUANTITIES
Park at Molhadhoo

Item	Description	Unit	Quantity	Rate/ Unit	Rate/ Unit	Total Unit Rate	Amount
				Material	Labour	Rates per Units	
	BILL No: 01 PRELIMINARIES						
	1.1 General Notes (1) <u>Abbreviations</u> m - meter No - numbers m ³ - cubic meter m ² - square meter Lm - Linear meter KG - Kilograms incl - including mm - millimeter dia - diameter SS - Stainless Steel GI - Galvanized Iron						
	1.4 Clean-up (1) Allow for clean-up of completed works and site upon completion.	Item	1.00				
	BILL No: 01 PRELIMINARIES TOTAL OF BILL No: 01 - Carried over to summary						
	BILL No: 02 GROUND WORKS						
	2.1 General (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating and disposing surplus soil.						
	2.3 Excavation Excavation shall be carried out in all type of materials and by whatever means are necessary accurately to the lines and levels shown in the approved drawing. No blasting of any kind will be permitted. Excavation for foundations and will include timbering of soil faces and dewatering. Excavation quantities are measured to the faces of concrete members. Rates shall include for dewatering, leveling, grading, trimming compacting to faces of excavation, keeping sides plumb, backfilling, consolidating and disposing surplus soil and include for all additional excavation required to place the formwork / shuttering and dewatering the trench for the required days.						
	(2) Excavation for Boundary Tie beam beams (TB)	m ³	10.44				
	(3) Excavation for Footings and other components	Item	1.00				
	2.4 Back Filling up to ground level. (1) Rates shall include for: leveling, grading, trimming and compacting as specified.	Item	1.00				
	2.4 Damp Proof Membrane Cutting and laying in position heavy duty polythene sheets of gauge 500 (not less than 1.5mm thick). Rates shall include for: dressing around and sealing to all penetrations. Apply slurry type waterproofing to all surfaces of concrete below ground level in accordance with manufacturer's instructions.						
	(1) Damp proof membrane above lean concrete , Tootings and Tie beams.	m ²	89.00				
	(2) Damp proof membrane below floor slab	m ²	23.46				
	BILL No: 02 - GROUND WORKS TOTAL OF BILL No: 02 - Carried over to summary						

BILL No: 03 CONCRETE							
3.1 General	Rates shall include for cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wire and other supports, laps and wastage, all reinforcement bars except 6 mm dia bars shall be of deformed high strength bars. 6 mm bar shall be round mild steel bars. Binding wire shall be of 1.6 mm or 1.4 mm soft iron wire. Reinforcement bars shall be cleaned before use i.e. should be free from rust, oil, din, or other coatings that reduces bonds, all reinforced bars and binding wires shall be stored under cover of at least 450 mm above the ground, cutting and bending according to approved manner & the approved working drawing, placing and fixing in position and binding should be as per the approved working drawing, laps in the bars shall be staggered, concrete cover for reinforcement shall not less than 50 mm for substructure, 40 mm for columns & side beams and not more than 30 mm for slab and beam bottoms. Desalinated water or ground water used for all purposes.						
3.2 Lean Concrete	Lean concrete shall be 50mm thick & mix ratio shall be 1:2:6 by dry volume. Lean concrete placed at bottom of footing and foundation beam and below plinth for protection according to line and length mentioned in the approved drawing. Quantity measured to the edges of concrete foundation members. Rate shall include of placing any formwork where necessary, batching, mixing, casting in all required items pouring & compacting and curing for 3 days and removal of any formwork include for provision casting of required items & finishing after removal of formwork and additional concrete required to confirm to structural and excavated tolerances and rates shall include supply of all <i>required works</i>						
(1)	50 mm thick lean concrete under the footings / strip footing and tie beam with a mix of 1:2:6	item	1.00				
3.3 Reinforced Concrete	In-situ reinforced concrete to: *Add water proofing compound / admixture to concrete mix for walls GL and Roof Slabs						
3.3.1 Foundations							
(1)	Wall footings and Lintel Beams (Toilets and Boundary Wall)	item	1.00				
(2)	Foundations for Play Structures	item	1.00				
3.3.2 Ground Floor	PCC Ground Slab 50 mm thick skating area, (Rate shall include for required compactions & shuttering required as per the drawings)	m ³	1.17				
(1)	GI Stump Footings 8 nos	m ³	0.58				
(1)	PCC Ground Slab 75 mm thick toilet area, (Rate shall include for required compactions & shuttering required as per the drawings)	m ³	0.90				
3.3.3 Roof Level							
(1)	Toilet Wall beam includins stiffner columns,	Item	1.00				
BILL No: 03 - CONCRETE WORKS							
TOTAL OF BILL No: 03 - Carried over to summary							
BILL No: 04 MASONRY AND PLASTERING							
4.1 General	Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, cutting or leaving holes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashings, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good. Bedding mortar (mixing ratio 1:4 i.e. cement: manufactured sand) shall be of OPC & fine aggregate shall be imported river sand shall be approved in grading & clean from any harmful substance. Masonry work shall be done with approved Machine compact cement blocks (300X150X150) with no defects. Lay in line and length as per approved working drawing Block making (mixing ratio 1:4 i.e. cement: Local sand, Free form salt) shall be of OPC & free form salt. floor slabs, cutting or leaving holes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashings, bedding Rates shall include for: 25mm groove lines on external surfaces as shown on the drawing. Desalinated water shall be used for all purposes, ground water shall not be used.						
4.2 Cement block work	External and external walls						
4.2.1	150mm wide Hollow blocks, laid on and incl. 1:5 Cement Mortar, tie rods, compression gap filler, nylon / plastic mesh as specified. (mixing ratio 1:4 i.e. cement: river sand,)						
(1)	Boundary Wall	m ²	54.00				
(2)	Wall (1 Brick Height)	m ²	12.30				
(3)	Toilet Walls	m ²	35.10				
4.3 Plastering	GENERAL: Interior and Exterior: Plaster All masonry wall have smooth finishing of 18 mm thick cement plastering with mix ratio 1:4 (i.e. cement: River Sand), plastering material shall be of OPC & fine aggregate shall be imported river sand shall be approved in grading & clean from any harmful substance. Plastic net should be provided wherever concrete surface and masonry meets, and cracks are unacceptable. Regular curing up to 7 days must be done, edges of doors, windows and ventilators included.						
4.3.1	25mm thick cement plastering (2 coat) on external walls and 18mm thick cement plastering on internal walls and concrete surfaces with 1:4 Cement mortar mix as specified incl. wire mesh at joints of concrete surfaces and walls (first, second coats).						
(1)	Boundary Wall	m ²	108.00				
(2)	Wall (1 Brick Height)	m ²	24.60				
(3)	Toilet Walls	m ²	70.20				
BILL No: 04 - MASONRY AND PLASTERING							
TOTAL OF BILL No: 04 - Carried over to summary							

BILL No: 05						
ROOFING						
5.1 General	(a) Rates shall include for: fair edges, dressing over angel fillets, turning into grooves, all other labors, circular edges, nails, screws and other fixings and laps. (b) Rates shall include to apply Wood preservative to all the surface of timbers (Roof structure). (b) Rates shall include to remove existing end cap, fascia board and necessary roofing sheets and necessary works to connect new roof to existing roof.					
5.2 Roof Coverings						
(1)	Roofing : Fabric roof including GI Pipe columns.	m ²	120.00			
(2)	Roofing sheets: Blue scope steel international limited MSP, Total coated thickness minimum 0.42mm thick - Aqua marine or equivalent for Main building and connection area.	m ²	13.00			
5.3 Capping and Flashings						
(2)	Hip Capping (Roof hips): Blue scope steel international limited MSP, Total coated thickness minimum 0.42mm thick- Aqua marine or equivalent	m	3.30			
5.4 Gutter						
(a)	MSP Color bond flat sheet gutter 200X200mm, Total coated thickness minimum 0.42mm thick, including framing, and supports, straps, brackets, clips, stop ends, overflow, downpipe outlets, mesh flashings and all fixings and fastenings.					
(1)	GUTTER: Blue scope steel international MSP- Aqua marine or equivalent	m	3.30			
5.5 Down Pipes						
(1)	75 mm dia uPVC down pipes including bends, junctions, straps, brackets, clips, roof drain strainer and all fixings.	item	1.00			
5.7 Roof Structure						
(a)	Rates shall include for: all labor in framing, notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete with cleats, packers, wedges and similar and all nails and screws.					
(b)	Rates includes to applying solignum wood preservative oil to all the surface of roof structure.					
(c)	Rates include to fixing galvanized bolt with washers and nuts as show on the drawings.					
(1)	Timber rafters 50 X 100mm	m	19.80			
(2)	Timber purling 50 X 50mm	m	19.80			
(4)	Facia board, 18mm thick SHERA board 18 X 250mm	m	3.30			
(5)	Applying Solignum wood preservative or equivalent for all roof structure	item	1.00			
5.8 Roof Insulation						
(1)	50mm thick Mineral wool installation with both side reflective foil on Fixed to underside of roofing with 12.5X12.5mm plastic mesh, Connection and edges of the foil to be sealed properly with a approved tape from consultant.	m ²	13.00			
BILL No: 05 - ROOFING						
TOTAL OF BILL No: 05 - Carried over to summary						

BILL NO: 06 FENCE, DOORS AND WINDOWS						
6.1 General	Doors and windows , Fabricate and fix in position the aluminum doors and window frame - aluminum doors and window (white powder coated, 60-80 micron, 1.5mm profile thickness) using recommended material with specified fixtures as shown in approved working drawings and installation should be as per technical specifications. Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates hinges, screws, washer and all door and window hardware and these materials should be of ss steel according to drawing and of superior quality. (a) All door and window frames and panels shall be as specified in the drawing and timber boarder to be fixed all timber doors. (b) All glazing shall be 6mm Tinted. (Profiles to be chosen by client).					
6.2 Fence, Door / Windows units						
(1) D1, Solid timber Door with panels as per drawings. With timber border on both side of door leaf.	no	1.00				
(2) D2, Solid timber Door with panels as per drawings. With timber border on both side of door leaf.	no	1.00				
(3) W1, Minimum 80 Micron Aluminum, Dark sandy grey powder coated window with panels as per drawing. (also include Aluminum grill).	no	1.00				
(3) Provide Wire Mesh as per drawings	no	1.00				
BILL NO: 06 - DOORS AND WINDOWS TOTAL OF BILL No: 06 - Carried over to summary						
BILL NO: 07 TILING						
7.1 General	Prepare surface for approved bedding tiles with reach bedding materials as per the technical specifications & approved working drawings, fix tiles with ct grout in a precise manner to maintain correct alignment, applying tile grout and wiping any excess grout to ensure the required standards of finished works. Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing any other similar works to ensure the required finish. All tiles shall be Full body homoæneous tiles or equivalent.					
7.2 Floor finish						
7.2.1 600x600 skid resistant full body homogeneous floor tiles, (3) Toilet floor tiling	m ²	6.90				
7.3 Wall finish						
7.3.1 300x450 mm full body homogeneous wall tile, (3) Toilet	m ²	18.90				
BILL No: 7 - TILING TOTAL OF BILL No: 7 - Carried over to summary						

BILL No: 8 CARPENTRY WORKS						
8.1 Interior Ceilings Interior ceiling consist of 50X50mm Timber frame @ 1200mm c/c vertical and 600mm c/c horizontal rane with 10mm thick Gypsum board suspended ceiling, including framing beading nails and screws as per manufactures instruction.						
(1) Toilet	m ²	6.90				
(2) Supply and installation of Play cube as per Drawing	item	1.00				
(3) Supply and installation of Bench 1 as per Drawing	item	1.00				
(3) Supply and installation of Bench 2 as per Drawing	item	1.00				
BILL NO: 8 CEILINGS TOTAL OF BILL No:8 - Carried over to summary						
BILL No: 9 PAINTING						
9.1 General Exterior wall shall be of 1 coat of oil based textured paint and 2 coats of weather proof paint (oil based) over 1 coat of oil based sealer (white) or equivalent (according to technical specifications or approved drawings). Interior wall shall be of 2-3 coats over 1 coat of water based sealer. Rates includes Erection of scaffolding, preparing working platforms, applying sealer and two coats of paint, Exterior & Exterior Ceiling (interior and exterior) shall be of 2 coats of (wood paint over 1 coat of wood primer, equivalent. Erection of scaffolding, preparing working platforms, applying sealer and two coats of paint as specified in the working drawings. All painting work shall be carried in accordance with the Specifications						
9.2 Wall painting						
9.2.1 External painting 1 coat of wall sealer, 1 coat texture compound & 2 coats of paints (all coats to be oil based and external paint). Internal Painting 1 coat of wall sealer & 2 coats of paints, Emulsion paint putty finish system on plastered and concrete surfaces of internal walls.						
(1) Boundary Wall paintings	m ²	108.00				
(1) Toilet Wall paintings	m ²	70.20				
9.3 Interior Ceiling painting						
9.3.1 Emulsion paint putty finish on concrete slab and beams, plywood / cement fiber board of all internal surfaces. 1 coat of primer & 2 coats of paints.						
(1) Emulsion putty paint finish	m ²	6.90				
BILL No: 9 - PAINTING TOTAL OF BILL No: 9 - Carried over to summary						
BILL No: 10 ELECTRICAL INSTALLATIONS						
10.1 General (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 (c) Rates shall include for electrical conduits, fittings, equipment and similar all fixings to various building surfaces (d) Each Light/ light fixture and its switch is measured as one point; similarly each fan or each socket outlet is measured as one point; (e) Rates shall include for supply and complete installation						
10.2 Mains connection and Wires Main connection: Rates shall include for screws, nails, bolts ,nuts, standard cable, fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories. Rates shall including for electrical conduits, fittings, equipment and similar items. Single - PHASE CABLE WIRING and D-BOARD: All necessary work in trench shall include for excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers warning tape and disposal of surplus soil supply and laying of the cable in according to Maldives electricity bureau. (16mm ² 4-Core Cable, Approved by respective Authorities, GI pipe, warning tape), contractor has to measure cable length from site. Rates shall include for lights and fixtures of toilet and gates as per instructions	item	1.00				
BILL No: 10 - ELECTRICAL INSTALLATIONS TOTAL OF BILL No: 10 - Carried over to summary						

BILL No: 11							
HYDRAULICS & DRAINAGE							
11.1	Hydraulics						
11.1.1	General						
	(a) Rates shall include for excavation, laying pipes and backfilling trenches, maintaining faces of drainpipe trenches and pits, backfilling, disposal of surplus soil, bends, junctions, reducers, expansion joints brackets, joints, straps, hangers, screws, nails and fixing complete, and all joints and other incidental material. All Pipes and fittings area high pressure uPVC pipes fixing complete, including cutting and forming holes; excavating, laying pipes and backfilling trenches.						
	(b) All pipe work shall be uPVC.						
11.1.3	Ground water supply pipe work						
(1)	Completion of pipe works and Connect ground water supply pipe work.	Item	1.00				
11.1.4	Sanitary fixtures & accessories						
	Sanitary fixtures & Accessories: Sanitary fixtures complete including brackets, flush pipes, valves, overflows, plugs and washers, as specified.						
(1)	Water closet (American standard, Neo Modern, Anti bacterial type) or equivalent, (dual top flush)	no	1.00				
(2)	Wash basin with pedestal (American Standard) or equivalent	no	1.00				
(3)	Floor drain with gully & water trap.	no	1.00				
(4)	Water tap for wash basin , (Cotto) or equivalent	no	1.00				
(5)	Muslim Shower with Stop valve, (Cotto) or equivalent	no	1.00				
(6)	Floor waste with SS gully trap (toilet and laundry area)	no	1.00				
(7)	Stop Valves, (Cotto) or equivalent	no	1.00				
11.2	Drainage						
11.2.1	General						
	(a) Rates shall include for: excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus spoil; bends, junctions, reducers, expansion joints and all joints and other incidental materials.						
	(b) All pipe work shall be UPVC						
(1)	Constructing Concrete Inspection Chamber of required size with all provisions to connect pipelines as per drawing.	Item	1.00				
11.3	Pipe work						
(1)	Completion of pipe works and Connect Waste disposal pipe 75mm dia to Sewer network/Discharge.	Item	1.00				
BILL No: 11 - HYDRAULICS & DRAINAGE							
TOTAL OF BILL No: 11 - Carried over to summary							
BILL No:13							
TENDERER'S ADJUSTMENTS							
13.0	Any adjustments that the contractor may consider necessary should be written below and on similar continuation sheets if required, and the net amount of the adjustments is to be carried to the summary.						
	(a) Provide detail description of work items under each bill and insert extra pages if required.						
13.2	Additions						
(1)	PRELIMINARIES, Bill no. 01					-	-
(2)	GROUND WORKS, Bill no. 02					-	-
(3)	CONCRETE, Bill no. 03					-	-
(4)	MASONRY AND PLASTERING, Bill no. 04					-	-
(5)	ROOFING, Bill no. 05					-	-
(6)	FENCE, DOORS AND WINDOWS, Bill no. 06					-	-
(7)	TILING, Bill no. 07					-	-
(8)	CARPENTRY WORKS, Bill no. 08					-	-
(9)	PAINTING, Bill no. 09					-	-
(10)	HYDRAULICS & DRAINAGE, Bill no. 10					-	-
(11)	ELECTRICAL INSTALLATIONS, Bill no. 11					-	-
(13)	TENDERER'S ADJUSTMENTS, Bill no. 13					-	-
	ADDITIONS TOTAL						-
13.3	Omissions						
(1)	PRELIMINARIES, Bill no. 01					-	-
(2)	GROUND WORKS, Bill no. 02					-	-
(3)	CONCRETE, Bill no. 03					-	-
(4)	MASONRY AND PLASTERING, Bill no. 04					-	-
(5)	ROOFING, Bill no. 05					-	-
(6)	FENCE, DOORS AND WINDOWS, Bill no. 06					-	-
(7)	TILING, Bill no. 07					-	-
(8)	CARPENTRY WORKS, Bill no. 08					-	-
(9)	PAINTING, Bill no. 09					-	-
(10)	HYDRAULICS & DRAINAGE, Bill no. 10					-	-
(11)	ELECTRICAL INSTALLATIONS, Bill no. 11					-	-
(13)	TENDERER'S ADJUSTMENTS, Bill no. 13					-	-
	OMISSIONS TOTAL						-
BILL No: 13 - TENDERER'S ADJUSTMENTS							
TOTAL OF BILL No: 13 - Carried over to summary							