



BILL OF QUANTITIES

IUL/413/2022/8

PROPOSED 2 ROOM EXTENTION WORKS

GA.GEMANAFUSHI

MALE'

REPUBLIC OF MALDIVES

MARCH 2022

Projects Department

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BILL OF QUANTITIES

| Item | Description | Qty | Unit | Rate | Amount |
|---|---|------|------|------|-------------|
| BILL No: 01 | | | | | |
| <u>PRELIMINARIES</u> | | | | | |
| 1.1 | <u>SITE MANAGEMENT COSTS</u> | | | | |
| (1) | including costs of foreman and assistants, temporary services, telephone, fax, hoardings and similar. | 1.00 | item | | |
| 1.2 | <u>SITE SAFETY / SECURITIES</u> | | | | |
| (1) | Allow lump sum for health and safety measures for | 1.00 | item | | |
| (2) | Allow for erecting and maintaining of temporary scaffoldings , supports, platforms and climbing stairs and remove on completion of the Works including temporary re-erections if required. | 1.00 | item | | |
| 1.3 | <u>CLEANING UPON COMPLETION</u> | | | | |
| (1) | Cleaning the site upon completion of all works | 1.00 | item | | |
| BILL No: 01 - PRELIMINARIES | | | | | |
| TOTAL OF BILL No: 01 - Carried over to summary | | | | | 0.00 |

BILL OF QUANTITIES

| Item | Description | Qty | Unit | Rate | Amount |
|---|---|--------|------|------|-------------|
| BILL No: 02 | | | | | |
| <u>EARTH WORKS</u> | | | | | |
| 2.1 | <u>EXCAVATION</u> Note: Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork/shuttering and dewatering the trenches for the required days. | | | | |
| (1) | Excavation for foundation beams | 120.00 | Ft | | - |
| 2.2 | <u>EARTH FILLING</u> Rates shall include for levelling, grading, trimming and compacting. | | | | |
| (1) | Back filling | 1.00 | item | | - |
| BILL No: 02 - EARTH WORKS | | | | | |
| TOTAL OF BILL No: 02 - Carried over to summary | | | | | 0.00 |
| BILL No: 03 | | | | | |
| <u>CONCRETE</u> | | | | | |
| | (a) Rates shall include for: provision to place in position; casting of all required items and finishing after removal of formwork and additional concrete required to conform to structural and excavated tolerances | | | | |
| | (b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc. | | | | |
| | (c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:3:6 by volume | | | | |

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| 3.1 | <u>LEAN CONCRETE</u> | | | | |
| | Note: Quantity is measured to the edges of concrete members. Rates shall be inclusive of any additional concrete required to place the formwork. | | | | |
| (1) | 50mm thick lean concrete to bottom of foundation beams. | 120.00 | Ft | | - |
| 3.2 | <u>REINFORCED CONCRETE</u> | | | | |
| | In-situ reinforced concrete to: | | | | |
| 3.2.1 | <u>Foundation level</u> | | | | |
| (1) | Foundation beams | 1.00 | item | | - |
| 3.2.2 | <u>Ground Floor</u> | | | | |
| (1) | Columns | 1.00 | item | | - |
| (2) | Ground floor slab 75mm thick | 1.00 | item | | - |
| (3) | Lintel and sill beams (150mmX150mm)on all doors and windows | 1.00 | item | | - |
| 3.2.3 | <u>Roof</u> | | | | |
| (1) | Attached roof beams (RB1) | 1.00 | item | | - |
| 3.3 | <u>FORMWORK</u> | | | | |
| | (a) 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. | | | | |
| 3.3.1 | <u>Foundation level</u> | | | | |
| (1) | Foundation beams | 1.00 | item | | - |
| 3.3.2 | <u>Ground Floor</u> | | | | |
| (1) | Columns C1 | 1.00 | item | | - |
| (2) | Columns C2 | 1.00 | item | | - |
| (2) | Lintel and sill beams (150mmX150mm)on all doors and windows | 1.00 | item | | - |
| 3.3.3 | <u>Roof</u> | | | | |
| (1) | Attached roof beams (RB1) | 1.00 | item | | - |

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| 3.4 REINFORCEMENT | | | | |
| (a) 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 | | | | |
| (b) All reinforcing bars except 6mm dia bars shall be high strength deformed bars | | | | |
| (c) The exact length exclusive of laps are given. The rates shall take into account laps and any wastage. | | | | |
| 3.4.1 Foundation | | | | |
| (1) 10 mm dia. bars in foundation beams | 1.00 | item | | - |
| (2) 6 mm dia. bars in foundation beams | 1.00 | item | | - |
| 3.4.2 Ground Floor | | | | |
| (1) 10mm dia. bars in columns C1 | 1.00 | item | | - |
| (2) 6 mm dia. bars in columns C1 | 1.00 | item | | - |
| (3) 10mm dia. bars in columns C2 | 1.00 | item | | - |
| (4) 6 mm dia. bars in columns C2 | 1.00 | item | | - |
| (5) Lintel and sill beams reinforcement as per drawings | 1.00 | item | | - |
| 2.4.3 Roof | | | | |
| (1) 12 mm dia. bars in roof beams RB1 | 1.00 | item | | - |
| (2) 6 mm dia. bars in roof beams RB1 | 1.00 | item | | - |
| BILL No: 03 - CONCRETE | | | | |
| TOTAL OF BILL No: 03 - Carried over to summary | | | | 0.00 |
| BILL No: 04 | | | | |
| <u>MASONRY AND PLASTERING</u> | | | | |
| Note: Rates shall include for: blocks, cutting or leaving holes and openings as recesses, building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashing, bedding frames. Blocks should be mechanical or machine compacted blocks with mix ratio 1:5 | | | | |

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| | (a) Mix ratio for Plastering & masonry shall be 1:4.with sand OPC cement | | | | |
| 4.1 | <u>BLOCK WORK 150 MM THK</u> | | | | |
| (1) | External walls | 1.00 | item | | - |
| (2) | External walls (1200mm Height) | 1.00 | item | | - |
| 4.2 | <u>PLASTERING</u> | | | | |
| | 15mm thk for interior, 20mm thk for exterior plastering on walls and concrete surfaces. | | | | |
| 4.2.1 | Ground floor | | | | |
| (1) | Interior | 1.00 | item | | - |
| (2) | Exterior | 1.00 | item | | - |
| 4.3 | <u>FLOOR SCREED</u> | | | | |
| | 50mm thk,1:4 cement sand screeding on the floor to receive floor paint as described | | | | |
| (1) | General floor | 1.00 | item | | - |
| BILL No: 04 - MASONRY AND PLASTERING | | | | | |
| TOTAL OF BILL No: 04 - Carried over to summary | | | | | 0.00 |
| BILL No: 05 | | | | | |
| <u>METAL WORKS/WOOD WORKS</u> | | | | | |
| | Note: (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 painting and finishing. | | | | |

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| | <p>(c) Rates shall include for fabrication and erection of temporary supports and fixing into position</p> <p>(d) Rates shall include for the application of one coat redoxide to all welded joints and application of single coat aluminium paint on all GI pipes.</p> | | | | |
| (1) Truss | | 1.00 | nos | | - |
| BILL No: 05 - METAL WORKS | | | | | |
| TOTAL OF BILL No: 05 - Carried over to summary | | | | | 0.00 |
| BILL No: 06 | | | | | |
| <u>CEILING</u> | | | | | |
| 6.1 <u>SUSPENDE CEILING</u> | | | | | |
| <p>6 mm thick fiber cement board for external or toilets and eves & 9mm thick gypsum ceiling board for internal, suspended ceiling system as specified with all necessary framing, beading, screws etc. Rates shall also include for finishing as specified Allow for steel frames for internal and external should be wooden frames</p> | | | | | |
| (1) Internal | | 1.00 | Item | | - |
| (2) External | | 1.00 | Item | | - |
| BILL N0: 06 - CEILINGS | | | | | |
| TOTAL OF BILL No: 06 - Carried over to summary | | | | | 0.00 |
| BILL N0: 07 | | | | | |
| <u>DOORS AND WINDOWS</u> | | | | | |
| <p>Notes: (a) Rates shall include for locks, latches, closures, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware.</p> | | | | | |

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| | (b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boarding, framing, lining, fastenings and all fixings (c) Rates shall include for finishing | | | | |
| 7.1 | <u>DOORS AND WINDOWS</u> | | | | |
| (1) | Door Aluminium including toilet | 3.00 | nos | | - |
| (1) | Door Wooden | 2.00 | nos | | - |
| (1) | Window Aluminium | 2.00 | nos | | - |
| 7 -DOORS AND WINDOWS | | | | | |
| TOTAL OF BILL No: 07 - Carried over to summary | | | | | 0.00 |
| BILL NO: 08 | | | | | |
| <u>FINISHES</u> | | | | | |
| | NOTE: (a) Rates for tiling shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. (b) 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 work, removing and replacing door window furniture | | | | |
| 8.1 | <u>FLOOR / WALL FINISHES</u> | | | | |
| 8.1.2 | Floor /Wall tiling | | | | |
| | Note: Rates for tiling shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish.Allow for tile adhesive for wall and floor tiling | | | | |
| (1) | 600x600mm tiles for 2 room and entrance area. | 1.00 | Item | | - |
| (2) | 300x300mm matt Ceramic tiles on toilet floor | 1.00 | item | | - |
| (3) | 300x450mm Ceramic tiles on toilet wall @ 2.5m | 1.00 | Item | | - |

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| BILL No: 08 - FINISHES | | | |
| TOTAL OF BILL No: 08 - Carried over to summary | | | 0.00 |
| BILL No: 09 | | | |
| <u>HYDRAULICS & DRAINAGE</u> | | | |
| 9.1 | <u>HYDRAULICS</u> | | |
| | <u>Preamble notes</u> | | |
| | a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cuttin | | |
| | (b) All pipe work and fittings shall be high pressure PVC | | |
| | (c) Rate shall include for supply and fixing of all pipes | | |
| 9.2 | <u>Internal Plumbing</u> | | |
| | Internal plumbing to all toilets, washrooms, pantries and work area sinks incl. supply and laying of pipes. | 1.00 | item - |
| | <u>External Plumbing</u> | | |
| | Waste water and sewage connection from all the toilets & lab inc. supply and laying of pipes. | 1.00 | item - |
| 9.3 | <u>Pipe work</u> | | |
| | Allow for supply and installation of | | |
| (1) | pipework including all the necessary accessories & fittings. | 1.00 | item - |
| 9.4 | <u>Rainwater discharge pipe</u> | | |
| (1) | Ø 75mm PVC Rainwater down pipe from roof. | 2.00 | nos - |
| 9.5 | <u>Sanitary Fixtures & Accessories</u> | | |
| | Sanitary fixtures complete including brackets, stop valves, fittings etc. All sanitary fittings shall be of 'Rapetti' brand or equivalent and all fixtures shall be of 'Duravit' brand or equivalent. | | |

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| (1) | WC suites incl. Flush tank and fittings with well water connection | 1.00 | nos | | - |
| (2) | Wash Basins incl. taps and fittings with public water connection | 1.00 | nos | | - |
| (3) | Low level Taps with public water connection | 1.00 | nos | | - |
| (4) | Mirror | 1.00 | nos | | - |
| (5) | Soap Dispenser | 1.00 | nos | | - |
| (6) | Floor drain | 1.00 | nos | | - |
| (7) | Muslim shower | 1.00 | nos | | - |
| 9.6 | <u>Septic tank and Soak pit</u> | | | | |
| | Provide and Construct Septic tank complete as shown on the drawings incl all pipe connections and similar | 1.00 | item | | - |
| BILL No: 09 - HYDRAULIC AND DRAINAGE | | | | | |
| TOTAL OF BILL No: 09 - Carried over to summary | | | | | 0.00 |
| BILL No: 10 | | | | | |
| <u>PAINTING</u> | | | | | |
| Note: (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 work, removing and replacing door window furniture | | | | | |
| (b) All painting work shall be carried in accordance with the Specifications | | | | | |
| 10.1 | <u>WALLS / CONCRETE SURFACES</u> | | | | |

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|---|---|------|------|--|-------------|
| | Nippon or equivalent emulsion paint finish on cement plastered walls and concrete surfaces. Applied 1 coat of putty finish on office and panel room plastered surface. Exterior walls should be applied with weather proof paint.Allow for applied 1-coats of Alkali Resisting primer on all plastered surface. | | | | |
| (1) Ground floor | | | | | |
| 1.1.1 Interior | | 1.00 | item | | - |
| 1.1.2 Exterior | | 1.00 | item | | - |
| 10.2 | <u>CEILING SURFACES</u> | | | | |
| | Nippon or equivalent paint finish on soffits of concrete slab and staircase including application of putty, grinding and sanding as specified | | | | |
| (1) Ground floor | | | | | |
| 1.1.1 Exterior | | 1.00 | item | | - |
| 1.1.2 Interior | | 1.00 | item | | - |
| BILL No: 10 - PAINTING | | | | | |
| TOTAL OF BILL No: 10 - Carried over to summary | | | | | 0.00 |
| BILL No: 11 | | | | | |
| | <u>ELECTRICAL & SPECIFIC INSTALLATIONS</u> | | | | |
| | (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 for electrical conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces | | | | |

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|-------------|--|-------|------|---|
| | (d) Light end and switch end of wiring together measured as one point | | | |
| | (e) A point wiring for power points is measured as one point for each socket outlet; other end of wire is not included in the quantity. | | | |
| | (f) Rates shall include for supply and complete installation | | | |
| | (g) Three phase power supply. | | | |
| 11.1 | <u>ELECTRICAL BOARDS</u> | | | |
| | Complete installation, including for all connections, earthing, painting, testing and similar of: | | | |
| | Three phase main panel board with connections from the mains including meter, cut-off fuse and other accessories to be located in the panel room at ground floor to electrical engineers specification | | | |
| (1) | Distribution Board (12 Circuit) | 1.00 | nos | - |
| 11.2 | <u>ELECTRICAL WIRING</u> | | | |
| | Electrical wiring with copper conductor cable in conduits in walls and concrete as per government regulations including necessary D-boards at each level as per drawing given | | | |
| (1) | Wiring to Lighting | 1.00 | item | - |
| (2) | Wiring to Power outlets | 1.00 | item | - |
| (3) | Wiring to D/B | 1.00 | item | - |
| 11.3 | <u>LIGHTING, POWER POINTS & FANS</u> | | | |
| | All lights shall be 'Philips' brand or equivalent, all switches, sockets etc. shall be 'Legrand' brand or equivalent, Air condition system shall be Hitachi or equivalent | | | |
| (1) | Fan | 2.00 | nos | - |
| (2) | IP40 20W LED panel light 300x300 | 17.00 | nos | - |
| (3) | Wall socket outlet (15 Amp) | 2.00 | nos | - |
| (4) | Wall socket outlet (13 Amp) | 6.00 | nos | - |

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| (5) | Outdoor Wall Light | 2.00 | nos | - |
| (6) | Four gang switch | 5.00 | nos | - |
| (7) | Two gang switch | 3.00 | nos | - |
| (8) | Dimmer Fan | 2.00 | nos | - |
| 11.4 Network point | | | | |
| (1) | network point | 2.00 | nos | - |
| 11.5 Air condition | | | | |
| (1) | 12000 BTU HITACHI or Equavalent | 2.00 | nos | - |
| BILL No: 11 - ELECTRICAL | | | | |
| TOTAL OF BILL No: 11- Carried over to summary | | | | 0.00 |
| BILL No: 12 | | | | |
| <u>ROOF TRUSS AND COVER</u> | | | | |
| (a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories | | | | |
| 12.1 ROOF FRAMES | | | | |
| Build up Timber frames rest on top of the beam and anchored as per drawing. | | | | |
| (1) | 50 x 150 mm Timber Rafter | 1.00 | item | - |
| (2) | 50 x 50 mm Timber battens | 1.00 | item | - |
| 12.2 ROOF COVER AND ACCESSORIES | | | | |
| Corrugated roofing sheets, fixed in accordance to manufacturer's instruction, inclusive of all necessary accessories | | | | |
| (1) | lysaght roofing sheets | 1.00 | item | - |
| (2) | PVC mesh | 1.00 | item | - |
| (3) | Lysaght flashing | 1.00 | item | - |
| (4) | Lysaght gutter | 1.00 | item | - |
| (5) | Timber facia | 1.00 | item | - |

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| BILL No: 12 - ROOF TRUSS AND COVER | | | | | |
| TOTAL OF BILL No: 12 - Carried over to summary | | | | | 0.00 |
| BILL No: 13 | | | | | |
| <u>ADDITIONS</u> | | | | | |
| 1.0 | Bill no.1 | | | | |
| | a | | | | |
| | b | | | | |
| 2.0 | Bill no.2 | | | | |
| | a | | | | |
| | b | | | | |
| 3.0 | Bill no.3 | | | | |
| | a | | | | |
| | b | | | | |
| 4.0 | Bill no.4 | | | | |
| | a | | | | |
| | b | | | | |
| BILL No: 13 - ADDITIONS | | | | | |
| TOTAL OF BILL No: 13 - Carried over to summary | | | | | 0.00 |
| BILL No: 14 | | | | | |
| <u>OMISSIONS</u> | | | | | |
| 1.0 | Bill no.1 | | | | |
| | a | | | | |
| | b | | | | |
| 2.0 | Bill no.2 | | | | |
| | a | | | | |
| | b | | | | |
| 3.0 | Bill no.3 | | | | |
| | a | | | | |
| | b | | | | |
| BILL No: 14 - OMISSIONS | | | | | |
| TOTAL OF BILL No: 14 - Carried over to summary | | | | | 0.00 |

BILL OF QUANTITIES**GRAND SUMMARY**

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|-------------------------|-------------------------------|----------------|
| 1.0 | PRELIMINARIES | 0.00 |
| 2.0 | EARTH WORKS | 0.00 |
| 3.0 | CONCRETE | 0.00 |
| 4.0 | MASONRY AND PLASTERING | 0.00 |
| 5.0 | METAL WORKS | 0.00 |
| 6.0 | CEILINGS | 0.00 |
| 7.0 | DOORS AND WINDOWS | 0.00 |
| 8.0 | FINISHES | 0.00 |
| 9.0 | HYDRAULIC AND DRAINAGE | 0.00 |
| 10.0 | PAINTING | 0.00 |
| 11.0 | ELECTRICAL | 0.00 |
| 12.0 | ROOF TRUSS AND COVER | 0.00 |
| 13.0 | ADDITIONS | 0.00 |
| 14.0 | OMISSIONS | 0.00 |
| SUB TOTAL | | 0.00 |
| GST 6% | | 0.00 |
| GRAND TOTAL | | 0.00 |
| DURATION IN DAYS | | 60 Days |
| VALIDITY IN DAYS | | 30 Days |