

BILL OF QUANTITIES

Proposed Art and Game Lab at Izzuddeen School

CLIENT : MINISTRY OF EDUCATION, GOVERNMENT OF MALDIVES

SUMMARY OF BILLS OF QUANTITIES
Proposed Art and Game Lab at Izzuddeen School

DESCRIPTION	AMOUNT	%
Bill No: 01 - PRELIMINARIES		
Bill No: 02 - PARTITION WALL		
Bill No: 03 - DOORS & WINDOWS		
Bill No: 04 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS		
Bill No: 05 - PAINTING & DECORATIONS		
Bill No: 06 - MECHANICAL & ELECTRICAL SERVICES		
Bill No: 07 - ADDITIONS AND OMMISIONS		
Sub-Total		
GST 8%		
Grand Total		

PREAMBLE NOTES

1.1 Discrepancies

All participants in the Tender exercise are deemed to have read the Specifications and BOQ carefully in conjunction with all the Contract Drawings. Any discrepancies between these documents are to be brought to the attention of the Employer and clarified prior to the closing of the Tender. Should any said discrepancies be discovered at a later date, the decision of the Employer is final and any extra cost due to the contractor as a result of such discrepancies will NOT be entertained whatsoever. The Contractor shall, at all times, exercise with care and professional scrutiny to ensure that there are no discrepancies and/or divergence between Contract Drawings and specifications prior to execution of any portion of the Works on site. The Contractor shall immediately give the Employer a written notice specifying any such discrepancies or divergence should he discovered such issues and the Employer shall issue instructions in regard thereto. The Contractor should exercise due diligence in this matter as a failure and/or negligence in complying with the above stated requirements may result in extra costs. Any extra costs incurred in respect therefore shall be borne solely by the Contractor.

1.2 General Notes

1. The Bill of Quantities shall be read in conjunction with the Instruction to Bidders, General Conditions of Contract, Appendix to bid, Technical Specification and Tender Drawings.
2. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, transportation, installation/erection, profit, together with all general risks, liabilities and obligations set out or implied in the Contract.
3. 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:
 - Access to each of the roads where solid waste transfer process will be carried out, and Access for the dump site.
 - Restrictions applicable to working in proposed area.
 - All safety regulations and employer site safety procedures.
4. A rate or price shall be entered against each item in the Bill of Quantities, whether quantities are stated or not. All quantities given herein shall be deemed to be estimated quantities of the work to be done. Tenderer shall check and verify the quantities before submitting the tender.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided but required for completion of contract works, the cost shall be deemed to be distributed among the rates and prices entered for the related item of work.
6. General directions and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. The Bidder shall refer to relevant sections of the Contract Document to fully understand the item requirements before entering rates or prices against each item in the Bill of Quantities. No variation is allowed for the given scope of work.
- 7.. Measurement standard applied for calculation of quantities are according to NRM-2, RICS.

BILL OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
1.0.00	Bill №: 01 - PRELIMINARIES					
1.1.00	GENERAL NOTES <u>Abbreviations</u> m - metre nr - numbers m3 - cubic metres m2 m - linear metre t - tons inc. - including mm - millimetre SS - stainless steel GI - galvanized iron					
1.2.00	SITE MANAGEMENT COSTS Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings & similar.	item	1.00			
1.3.00	SIGN BOARD Allow for sign board.	nr	1.00			
1.4.00	CLEAN-UP Allow for clean-up upon completion of works.	item	1.00			
1.5.00	INSURANCE, BONDS, GUARANTEES AND WARRANTIES Insurance as stated in the general conditions.	item	1.00			
1.6.00	SHOP DRAWINGS & AS BUILT DRAWINGS					
1.6.01	Allow for Shop Drawings during the progress of the project and As-Built Drawings after the completion of the project as stated in the general conditions.	item	1.00			
1.7.00	SAFETY ON SITE					
1.7.01	Safety on site:- Providing and maintaining adequate safety measures on site for all workers and all authorized visitors on site and protecting adjoining properties and people against falling objects or other with regard to the construction works	item	1.00			
1.6.00	TOTAL OF BILL №: 01 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
2.0.00	Bill №: 02 - PARTITION WALL					
2.1.00	GENERAL					
	(a) 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 leavingholes 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 flashing, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good.					
2.2.00	PARTITION WALL					
	Gypsum board partition on steel framing					
2.2.01	11720 x 2290 mm P1 - 50mm thk steel framed with Gypsum board finish	nr	1.00			
2.2.02	5250 x 2290 mm P2 - 50mm thk steel framed with Gypsum board finish	nr	1.00			
2.2.03	2225 x 2290 mm P3 - 50mm thk steel framed with Gypsum board finish	nr	1.00			
2.2.04	2680 x 2290 mm P4 - 50mm thk steel framed with Gypsum board finish	nr	1.00			
2.3.00	TOTAL OF BILL №: 02 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
3.0.00	Bill №: 03 - DOORS & WINDOWS					
3.1.00	GENERAL					
	(a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware.					
	(b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings.					
	(c) Sizes are given overall outside dimensions of actual doors and windows.					
	(d) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule.					
	(e) Rates shall include for all painting as specified					
	(f) Rates shall include all items specified in the door schedule and specification.					
	(g) Frames and sashes to be 50 micron white powder coated aluminium other wise specified.					
3.2.00	DOORS					
	FIRST FLOOR					
3.2.01	1000 x 2300 D1 - Aluminium panel door on Aluminium frame (Modification of entrance door)	nr	1.00			
3.2.02	1000 x 2300 D2 - Aluminium panel door on Aluminium frame	nr	4.00			
3.2.03	11720 x 875 mm Aluminium windows with Clear glass (On top of P1 Partition)	nr	1.00			
3.2.04	5250 x 875 mm Aluminium windows with Clear glass (On top of P2 Partition)	nr	1.00			
3.2.05	2225 x 875 mm Aluminium windows with Clear glass (On top of P3 Partition)	nr	1.00			
3.2.06	2680 x 875 mm Aluminium windows with Clear glass (On top of P4 Partition)	nr	1.00			
3.3.00	TOTAL OF BILL №: 03 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
4.0.00	Bill №: 04 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
4.1.000	<u>GENERAL</u>					
	(a) Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing.					
	(b) "Masterseal 588" or equivalent should be applied on top of corridor area slab and walls upto 600mm.					
4.2.00	<u>SCREEDING</u>					
	25mm Screed					
4.2.01	ART LAB/GAME LAB/WALKWAY/STORE 1/STORE 2/STORE 3	m ²	79.87			
4.2.00	<u>FLOOR TILING</u>					
	600 x 600 mm Homogenous Non-slip tiles					
4.2.01	ART LAB/GAME LAB/WALKWAY/STORE 1/STORE 2/STORE 3	m ²	79.87			
4.3.00	<u>SKIRTING</u>					
	120-150 mm high Homogenous tile skirting					
4.3.01	ART LAB/GAME LAB/WALKWAY/STORE 1/STORE 2/STORE 3	m	62.39			
4.4.00	<u>COVERING EXISTING WINDOW</u>					
4.4.01	ART LAB (Polycarbonate sheet)	item	1.00			
4.4.02	STORE 3 (Cement board)	item	1.00			
4.4.03	Electrical socket Box (Cement board)	item	1.00			
4.5.00	<u>SHELF FOR STORE AREA</u>					
	Wall mount shelf upto ceiling level					
4.5.01	STORE 1 & STORE 2	item	2.00			
4.6.00	TOTAL OF BILL №: 04 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
5.0.00	Bill №: 05 - PAINTING & DECORATIONS					
5.1.00	GENERAL (a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, wall putty application, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work. removing and replacine door & window furniture. (b) All painting work shall be carried in accordance with the Specifications.					
5.2.00	WALL PAINTING					
5.2.01	Emulsion paint finish including putty application on brick walls as specified (INTERNAL SURFACES) ART LAB/GAME LAB/WALKWAY/STORE 1/STORE 2/STORE 3	m ²	218.40			
5.3.00	CEILING PAINTING					
5.3.01	Emulsion paint finish including putty application on slab soffit/cement board ceiling GROUND FLOOR	m ²	79.87			
5.4.00	TOTAL OF BILL №: 05 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
6.0.00	Bill No: 06 - MECHANICAL & ELECTRICAL SERVICES					
6.1.00	GENERAL					
	<p>(a) Design, provide and install electrical network for the entire building complete in accordance to standards set by the local governing body STELCO/FENAKA.</p> <p>(b) The following items and description and the drawings are given as a guidance as to the nature of the information required to be returned by the contractor. Should they not be appropriate the contractor should provide a similar BOQ using the Additions/Omissions sheets provided at the back of this BOQ.</p> <p>(c) The cost shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories.</p> <p>(d) Rate shall include for necessary chasings, trenching, conduits, cables, cable trays, fittings and clips, cutting holes and chases in brick work/ block work/ concrete work complete with all necessary accessories such as sockets, connections, cable glands and boxes, hardware clips, soldering and jointing materials etc., for proper installing and laying of cables.</p> <p>(e) Rates for electrical isolators, conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces.</p> <p>(f) A light fixture is measured as one point; switch end of wire is not included in the quantity.</p> <p>(g) A point wiring for power points is measured (regardless of 1 gang, 2 gang etc) as one point for each socket outlet; other end of wire is not included in the quantity.</p> <p>(h) All under ground cables directly buried in ground/run in trenches to be properly laid and covered with cable tiles/trench covers. Rate for under ground cables shall include for all necessary excavation, sand layers, concrete tiles, warning strips and back filling with approved quality earth properly compacted, hot dipped galvanized brackets for trenches, accessories. etc as applicable.</p> <p>(i) The contractors are requested to refer Conditions of Contract, Special Conditions of Contract, Drawings and Specification and other relevant documents related to this tender prior to pricing of the following items</p> <p>(j) The contractor shall provide a schedule of all builder's work in connection with details of such items as necessary, along with the tender.</p> <p>(k) Rates for materials/ plants/ equipments not approved for duty free facilities to be quoted on duty paid basis.</p> <p>(l) All equipments shall be guaranteed for a period of 12 months from the date of commissioning or date of practical completion of the project which ever later</p> <p>(m) The rate shall include for insurance during handling, rehandling, transport, storage until ready for installation, delivery of equipments up to the point of installation and until handing over.</p> <p>(n) The rates shall include for comprehensive maintenance during defects liability period of 12 months from the date of handing over</p> <p>(o) The tenderer shall submit the following information on the items/equipments quoted for together with the tender.</p> <ol style="list-style-type: none"> a. make b. model No. c. technical data d. country of manufacture e. delivery period f. lead time for manufacturing. g. port of shipping h. CIF value of each item in foreign currency. j. Optional items and their additional cost. (additional cost to be submitted separately) k. Schedule of items to be carried out by others connected to installation of generators/transformers/Electrical panels such as some builders work and electrical connection. l. Details of all special features m. schedule attached to specification. <p>(p) Rate for all electrical panels shall include for supply and installation of all necessary MCCBs, MCBS, EFRs, ELCBs, auxiliary contacts, Voltmeters, ammeters, Digital analyser,kWh meters, indicator lamps, selector switches, copper bus bars, inter locks, aligning and grounding of the panel, inter connectors, internal wiring connections to switch gear,steel channels and necessary hardware fixing insulating materials,all in fully enclosed metal clad panels and distribution boards completed as shown in drawing. They shall comply with the specifications and I.E.E.regulations and be complete to working order to the approval of local authorities.</p> <p>(q) Rate shall include for supply, installation, maintaining, testing and commissioning of the system for power and lighting according to drawings and specifications to working order.</p> <p>(r) All materials, equipment wiring shall confirm to local codes, specifications, standards/latest I.E.E. regulations (BS 7671).</p>					
6.2.00	MAIN DISTRIBUTION, SUB DISTRIBUTION AND DISTRIBUTION SYSTEM					
	<u>Distribution Boards (DB)</u>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
6.2.01	Distribution Panel for each floor as shown on the drawing, complete with all incoming and outgoing MCBs, RCCBs, etc any other item required to working order, wall mounted wall mount steel powder coated, IP44 enclosure with neutral link, earth bar and required accessories, all complete as per the specifications & drawings. Distribution Boards/DB Circuit	nr	1.00			
	<u>MAIN / SUB CABLING</u> All under ground cables directly buried in ground/ in the trenches as applicable, to be laid properly and covered with cable tiles, protection tapes, etc for mechanical protection, PVC sleeves may use if required. Rate shall include for all necessary works/accessories such as excavation, sand layers, cable tiles, warning strips and back filling with approved quality earth,properly compacted, to the satisfaction of the Engineer. All above ground cables shall be laid on cable tray/ trucnking /conduits as applicable and covered by tray covers, etc. for mechanical protection. PVC sleeves may use if required. Rate shall include for all necessary works/ accessories such as galvernized brackets, supporting materials, fittings, nails, cable ties, earthing, etc, trays shall be of required sizes, GI powder coated, and shotted, to the satisfaction of Engineer					
6.2.02	<u>CABLING</u> Cabling from main Panel board to DB	item	1.00			
6.3.00	<u>GENERAL EARTHING</u>					
6.3.01	Allow for the total earthing system inclusive of the necessary cables from all the DBs	item	1.00			
6.4.00	<u>POINT WIRING AND FITTINGS</u>					
	Rate shall include for supply & installation of cable, conduits for point					
6.4.01	Supply and Installation of 2 x 1C 1.5mm ² PVC/PVC/Cu + 2.5mm ² PVC/Cu earth cable c/w uPVC conduit, junction boxes etc. for lights and switches point wiring	nr	27.00			
6.4.02	Supply and Installation of 2 x 1C 2.5mm ² PVC/PVC/Cu + 2.5mm ² PVC/Cu earth cable c/w uPVC conduit, junction boxes,ethernet cables, RJ45 Connectors. VGA cables etc. for the Socket outlets point wiring	nr	7.00			
6.5.00	<u>LIGHTS,SWITCHES AND SOCKETS</u>					
	Rate shall include supply and installation of following lighting fixtures, socket outlets as specified and detailed, fixed in position including all fixing accessories, supports and connect to power, under following conditions 1. All bathrooms, out door light fixtures shall be IP65 2. All switches & sockets shall be ABB or equivalent brand.					
	<u>LIGHTS AND SWITCHES</u>					
6.5.01	Ceiling down light (18W) LED	nr	4.00			
6.5.02	Hanging lights	nr	9.00			
6.5.03	Lights	nr	5.00			
6.5.04	Light switch (4 G)	nr	2.00			
6.5.05	Light switch (5 G)	nr	4.00			
6.5.06	Emergency Lights	nr	2.00			
6.5.07	Exit lights	nr	1.00			
	<u>SOCKETS</u>					
6.5.08	15 A twin sockets	nr	2.00			
6.5.09	Polycarbonate enclosure for sockets at lab wall	nr	5.00			
6.6.00	TOTAL OF BILL №: 06 - Carried Over To Summary					

ITEM	DESCRIPTION	UNIT	QTY	MATERIA	LABOUR RATE	AMOUNT
7.0.00	Bill №: 07 - ADDITIONS AND OMMISIONS					
7.1.00	ADDITIONS					
7.1.01	Bill №: 01 - PRELIMINARIES					
7.1.02	Bill №: 02 - PARTITION WALL					
7.1.03	Bill №: 03 - DOORS, SHUTTERS & HATCHES					
7.1.04	Bill №: 04 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
7.1.05	Bill №: 05 - PAINTING & DECORATIONS					
7.1.06	Bill №: 06 - MECHANICAL & ELECTRICAL SERVICES					
	TOTAL					
7.2.00	OMISSIONS					
7.2.01	Bill №: 01 - PRELIMINARIES					
7.2.02	Bill №: 02 - PARTITION WALL					
7.2.03	Bill №: 03 - DOORS, SHUTTERS & HATCHES					
7.2.04	Bill №: 04 - FLOOR, WALL, CEILING, AND ROOF FINISHINGS					
7.2.05	Bill №: 05 - PAINTING & DECORATIONS					
7.2.06	Bill №: 06 - MECHANICAL & ELECTRICAL SERVICES					
	TOTAL					
7.3.00	TOTAL OF BILL №: 07 - Carried Over To Summary					