

**BILL OF QUANTITIES**  
**N. HOLHUDHOO SCHOOL RENOVATION**

**CLIENT : MINISTRY OF EDUCATION**

**SUMMARY OF BILL OF QUANTITIES**

**Project:** N. HOLHUDHOO SCHOOL

**Date:**

9/9/2024

**Version:**

**Client:**

**Prepared by:**

DESCRIPTION	AMOUNT (MVR)	%
Bill №: 01 - PRELIMINARIES		
Bill №: 02 - DEMOLITION WORKS		
Bill №: 03 - MASONRY		
Bill №: 04 - CEILING / PARTITION		
Bill №: 05 - WINDOWS		
Bill №: 06 - DOORS		
Bill №: 07 - PAINTING		
Bill №: 08 - FINISHES		
Bill №: 09 - FURNITURE		
Bill №: 10 - HYDRAULICS AND DRAINAGE		
Bill №: 11 - ELECTRICAL INSTALLATIONS		
Bill №: 12 - INSULATION, FIRE STOPPING & FIRE PROTECTION		
Bill №: 13 - LABORATORY GAS SYSTEM		
Bill №: 14- MISCELLANEOUS WORK		
Bill №: 15- ADDITIONS AND OMMISIONS		
Bill №: 16 - ELECTRICIAN LAB		
<b>Duration of completion:</b>		
<b>TOTAL AMOUNT</b>		
<b>TOTAL 8 % GST AMOUNT</b>		
<b>GRAND TOTAL INCLUDING 8 % GST</b>		

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
<b>1.0.00</b>	<b>Bill No: 01 - PRELIMINARIES</b>					
<b>1.1.00</b>	<b><u>PREAMBLES</u></b>					
1.1.01	<b>General Preambles:</b> Renovation of N. HOLHUDHOO SCHOOL below mentioned rooms. SCIENCE LAB STEM / COMPUTER LAB GENERAL LAB					
<b>1.2.00</b>	<b><u>GENERAL NOTES</u></b>					
	<u>Abbreviations</u> m - metre nr - numbers m3 - cubic metres m2 - square metres lm - linear metre t - tons inc. - including mm - millimetre item - quote a lumpsum amount for the item SS - stainless steel GI - galvanized iron					
<b>1.3.00</b>	<b><u>SITE MANAGEMENT COSTS</u></b>					
1.3.01	Allow for all on and off site management cost including costs of foreman and assistants, temporary services, telephone, fax, hoardings & similar.	item	1.00			
1.3.02	The contractor shall provide protective covering for carpet, furnishings, and finishes in existing areas not designated for demolition or new construction. the contractor shall be responsible for the repair of any damage caused by his work or any subcontractor. in particular, the contractor shall maintain a dust-free environment within the area.	item	1.00			
<b>1.4.00</b>	<b><u>SIGN BOARD</u></b>					
1.4.01	Allow for sign board.	nr	1.00			
<b>1.5.00</b>	<b><u>CLEAN-UP</u></b>					
1.5.01	Allow for clean-up upon completion of works.	item	1.00			
<b>1.6.00</b>	<b><u>INSURANCE, BONDS, GUARANTEES AND WARRANTIES</u></b>					
1.6.01	<b>Insurance:</b> Contractor's All Risk (CAR) insurance covering physical loss or damage.  Workers' compensation and employer's liability insurance.  Third-party liability insurance.	item	1.00			
1.6.02	<b>Bonds:</b> Performance bonds ensuring project completion. Payment bonds ensuring all subcontractors and suppliers are paid.	item	1.00			
1.6.03	<b>Guarantees:</b> Manufacturer guarantees for materials and equipment. Contractor guarantees for workmanship and materials.	item	1.00			
<b>1.7.00</b>	<b><u>SHOP DRAWINGS AND AS BUILT DRAWING</u></b>					
1.7.01	<b>Shop Drawings:</b> Detailed drawings submitted by the contractor to the engineer or architect for approval. Include dimensions, materials, and installation details.	item	1.00			
1.7.02	<b>As-Built Drawings:</b> Final drawings reflecting all changes made during the construction process.	item	1.00			
<b>1.8.00</b>	<b><u>SAFETY ON SITE</u></b>					
1.8.01	<b>Safety Measures:</b> Provision and maintenance of personal protective equipment (PPE).	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
1.8.02	Implementation of safety protocols and emergency procedures. Regular safety training and drills for all site personnel. <b>Safety Signage:</b> Clear and visible safety signs indicating hazards, emergency exits, and equipment.	item	1.00			
1.8.03	<b>Safety Personnel:</b> Appointment of a safety officer responsible for site safety compliance.	item	1.00			
<b>1.9.00</b>	<b><u>SITE ESTABLISHMENT</u></b>					
1.9.01	Allow for mobilization and demobilization	item	1.00			
<b>1.10.00</b>	<b><u>SERVICES AND FACILITIES</u></b>					
1.10.01	Provision and maintenance of services and facilities such as Water, power supply, lighting and fuel required for the project, including Client facilities.	item	1.00			
<b>1.11.00</b>	<b><u>TEMPORARY FENCING AND HOARDING</u></b>					
1.11.01	Supply, erect and maintenance of a fence through out the construction period and hoarding all along the perimeter of the of the site.	item	1.00			
<b>1.12.00</b>	<b><u>MATERIAL TESTING</u></b>					
1.12.01	Allow for material testing as per technical specifications. Testing shall include for concrete cube testing, testing of cement,  <b><u>sand, aggregate, blocks, timber and similar as per standards specified in tender/MHI specifaions and</u></b> as required as per site conditions.	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
1.13.00	TOTAL OF BILL No: 01 - Carried Over To Summary					
2.0.00	Bill No: 02 - DEMOLITION WORKS					
2.1.00	<b>GENERAL</b> (a) Rates shall include for: demolish, dismantle and remove building structures and materials including brick, timber, concrete and metal.					
2.2.00	<b>SCIENCE LAB</b>					
2.3.01	Demolishing of existing base storage with sink Removal of existing door/window and making the opening to the required dimension to fix the new as per drawing,	m	16.74			
2.2.02	Door - D3	no	2.00			
2.2.03	Door - D2	no	1.00			
2.2.04	Door - D1	no	1.00			
2.2.05	Scratch off existing paint coat on internal surface of walls	m <sup>2</sup>	150.28			
2.2.06	Scratch off existing paint coat on external surface of walls	m <sup>2</sup>	9.88			
2.2.07	Removal of existing ceiling including fans / lights as per drawing	m <sup>2</sup>	94.30			
2.2.08	Cutting holes/ducts in walls to embed electrical conduit and fittings.	item	1.00			
2.2.09	Demolition of existing floor tiling as per drawing	m <sup>2</sup>	94.30			
2.3.00	<b>STEM / COMPUTER LAB</b>					
	Removal of existing door/window and making the opening to the required dimension to fix the new as per drawing,					
2.3.01	Door - D1	no	1.00			
2.3.02	Scratch off existing paint coat on internal surface of walls	m <sup>2</sup>	70.26			
2.3.03	Scratch off existing paint coat on external surface of walls	m <sup>2</sup>	16.53			
2.3.04	Removal of existing ceiling including fans / lights as per drawing	m <sup>2</sup>	50.52			
2.3.05	Cutting holes/ducts in walls to embed electrical conduit and fittings.	item	1.00			
2.3.06	Demolition of existing floor tiling as per drawing	m <sup>2</sup>	50.52			
2.4.00	<b>GENERAL LAB</b>					
	Removal of existing door/window and making the opening to the required dimension to fix the new as per drawing,					
2.4.01	Door - D4	no	1.00			
2.4.02	Scratch off existing paint coat on internal surface of walls	m <sup>2</sup>	88.22			
2.3.03	Scratch off existing paint coat on external surface of walls	m <sup>2</sup>	12.52			
2.4.04	Cutting holes/ducts in walls to embed electrical conduit and fittings.	item	1.00			
2.4.05	Demolition of existing floor tiling as per drawing	m <sup>2</sup>	65.60			
2.4.06	Removal of existing ceiling including fans / lights as per drawing	m <sup>2</sup>	65.60			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
2.5.00	TOTAL OF BILL №: 02 - Carried Over To Summary					
3.0.00	Bill №: 03 - MASONRY					
3.1.00	<b>GENERAL</b> (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. (b) For masonry and plastering Hilaveli should be used (c) All works complete as per drawing and specification					
3.2.00	<b>BRICK WORK</b> 100mm thk masonry solid block wall including, bricks laid to form alternate courses of headers and stretchers, laid on and inc. mortar. (PROPOSED EXTERNAL WALLS)					
3.2.01	SCIENCE LAB	m <sup>2</sup>	1.64			
3.2.02	100mm thk masonry solid block wall including, bricks laid to form alternate courses of headers and stretchers, laid on and inc. mortar. (PROPOSED INTERNAL WALLS) GENERAL LAB	m <sup>2</sup>	45.95			
3.3.00	<b>PLASTERING</b> 20mm thk cement plaster with putty application on internal surface as specified on the drawing ( EXTERNAL SURFACE)					
3.3.01	SCIENCE LAB	m <sup>2</sup>	1.64			
3.3.02	16mm thk cement plaster with putty application on internal surface as specified on the drawing ( INTERNAL SURFACE) SCIENCE LAB	m <sup>2</sup>	1.64			
3.3.03	GENERAL LAB	m <sup>2</sup>	91.89			
3.3.04	Plastering including putty application on the cut holes/ducts after embedding the conduit. SCIENCE LAB	item	1.00			
3.3.05	STEM / COMPUTER LAB	item	1.00			
3.3.06	GENERAL LAB	item	1.00			
3.4.00	<b>SCREED</b>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
3.4.01	50mm thk floor screed on required areas where screed is damaged	m <sup>2</sup>	94.30			
3.4.02	SCIENCE LAB	m <sup>2</sup>	50.52			
3.4.03	STEM / COMPUTER LAB	m <sup>2</sup>	65.60			
	GENERAL LAB	m <sup>2</sup>				
<b>3.5.00</b>	<b>TOTAL OF BILL №: 03 - Carried Over To Summary</b>					
<b>4.0.00</b>	<b>Bill №: 04 - CEILING / PARTITION</b>					
<b>4.1.00</b>	<b>GENERAL</b>					
	(a) Rates shall include for: all labour 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) All works complete as per drawing and specification					
<b>4.2.00</b>	<b>CEILING</b>					
	9mm thick PVC panel ceiling mounted on aluminium frame as specified the drawing.					
4.2.01	SCIENCE LAB (if required)	m <sup>2</sup>	94.30			
4.2.02	STEM / COMPUTER LAB (if required)	m <sup>2</sup>	50.52			
4.2.03	GENERAL LAB (if required)	m <sup>2</sup>	65.60			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
4.3.00	<b>TOTAL OF BILL No: 04 - Carried Over To Summary</b>					
5.0.00	<b>Bill No: 05 - WINDOWS</b>					
5.1.00	<b>GENERAL</b>					
	(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 25-60 micron powder coated aluminium other wise specified.					
	(h) All works complete as per drawing and specification					
5.2.00	<b>WINDOWS</b>					
	<u>SCIENCE LAB</u>					
5.2.01	1340 x 1600 Reflective film on clear glass panels of existing window - <b>W2</b>	nr	4.00			
5.2.02	1000 x 1300 Reflective film on clear glass panels of existing window - <b>W6</b>	nr	1.00			
	<u>STEM / COMPUTER LAB</u>					
5.2.03	1520 x 1600 Reflective film on clear glass panels of existing window - <b>W3</b>	nr	3.00			
	<u>GENERAL LAB</u>					



ITEM			DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
5.2.04	1570 x	1835	Reflective film on clear glass panels of existing window - <b>W5</b>	nr	2.00			
5.2.05	2500 x	1822	Reflective film on clear glass panels of existing window - <b>W4</b>	nr	2.00			
<b>5.3.00</b>			<b>TOTAL OF BILL №: 05 - Carried Over To Summary</b>					
<b>6.0.00</b>			<b>Bill №: 06 - DOORS</b>					
<b>6.1.00</b>	<b>GENERAL</b>							
	<ul style="list-style-type: none"> <li>(a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door &amp; window hardware.</li> <li>(b) Rates shall include for door frames, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings.</li> <li>(c) Sizes are given overall outside dimensions of actual doors and windows.</li> <li>(d) Thickness and sizes of glass panels are shown on the Drawings and doors and windows schedule.</li> <li>(e) Rates shall include for all painting as specified</li> <li>(f) Rates shall include all items specified in the door schedule and specification.</li> <li>(g) Frames and sashes to be 25-60 micron powder coated aluminium other wise specified.</li> <li>(h) All works complete as per drawing and specification</li> </ul>							
<b>6.2.00</b>	<b>DOORS</b>							
	<b>SCIENCE LAB</b>							
6.2.01	1200 x	2550	50mm thick powder coated (60 microns) aluminum framed door - <b>D1</b>	nr	1.00			

ITEM			DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
6.2.02	800 x	2550	50mm thick powder coated (60 microns) aluminum framed door - <b>D2</b>	nr	1.00			
6.2.03	800 x	2050	50mm thick powder coated (60 microns) aluminum framed door - <b>D3</b>	nr	2.00			
			<u>STEM / COMPUTER LAB</u>					
6.2.04	1200 x	2550	50mm thick powder coated (60 microns) aluminum framed door - <b>D1</b>	nr	1.00			
			<u>GENERAL LAB</u>					
6.2.05	1000 x	2130	50mm thick powder coated (60 microns) aluminum framed door - <b>D4</b>	nr	2.00			
<b>6.3.00</b>			<b>TOTAL OF BILL №: 06 - Carried Over To Summary</b>					
<b>7.0.00</b>			<b>Bill №: 07 - PAINTING</b>					
<b>7.1.00</b>	<b>GENERAL</b>		(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 replacing door & window furniture. (b) All painting work shall be carried in accordance with the Specifications.					
<b>7.2.00</b>	<b>WALL PAINTING</b>		EXTERNAL SURFACES: Exterior grade matte emulsion paint finish ground smooth in as specified					
7.2.01			SCIENCE LAB	m <sup>2</sup>	9.88			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
7.2.02	STEM / COMPUTER LAB	m <sup>2</sup>	16.53			
7.2.03	GENERAL LAB	m <sup>2</sup>	12.52			
	INTERNAL SURFACES: Interior grade matte emulsion paint finish ground smooth and waterproof paint in specified areas as per drawing.					
7.2.04	SCIENCE LAB	m <sup>2</sup>	150.28			
7.2.05	STEM / COMPUTER LAB	m <sup>2</sup>	70.26			
7.2.06	GENERAL LAB	m <sup>2</sup>	180.11			
7.3.00	<b>TOTAL OF BILL No: 07 - Carried Over To Summary</b>					
8.0.00	<b>Bill No: 08 - FINISHES</b>					
8.1.00	<b>GENERAL</b> (a) Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing.					
8.2.00	<b>FLOOR TILING</b>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
8.2.01	600 x 600mm porcelain non-slip floor tile over mortar as specified in the drawing. SCIENCE LAB	m <sup>2</sup>	94.30			
8.2.02	STEM / COMPUTER LAB	m <sup>2</sup>	50.52			
8.2.03	GENERAL LAB	m <sup>2</sup>	65.60			
<b>8.3.00</b>	<b>SKIRTING</b>					
8.3.01	Porcelain skirting tile over mortar SCIENCE LAB	m	57.80			
<b>8.4.00</b>	<b>TOTAL OF BILL No: 08 - Carried Over To Summary</b>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
9.0.00	<b>Bill No: 09 - FURNITURE</b>					
9.1.00	<b>GENERAL</b> (a) Rates shall include for: fixing, bedding, grouting, and pointing materials; making good around pipes, sanitary fixtures, and similar; cleaning down and polishing.					
9.2.00	<b>SCIENCE LAB</b>					
9.2.01	LAB Work station type 1 - 4400 x 1220	no	2.00			
9.3.00	<b>GENERAL LAB</b>					
9.3.01	Cooking and dining cabinet - 2940m length including 12mm thick granite counter top and 300x600mm backsplash tile finish as per drawing	no	1.00			
9.3.02	Arts and craft shelf - 1890m length including 12mm thick granite counter top and 300x600mm backsplash tile finish as per drawing	no	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
9.4.00	<b>TOTAL OF BILL №: 09 - Carried Over To Summary</b>					
10.0.00	<b>Bill №: 10 - HYDRAULICS AND DRAINAGE</b>					
10.1.00	<b>HYDRAULICS</b>					
10.2.00	<b>GENERAL</b>					
	(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 cutting and forming holes; excavating, laying pipes and backfilling trenches.					
	(b) Rate shall also includes the provision for pipe marking, and tagging as indicated in the specifications.					
	(c) Rate shall also includes the provisional sum for testing such as but not limited to hydrostatic pressure test for pressure line, and gravity leak test for all gravity lines which was stipulated in the specifications., chlorination/disinfection of network and tanks, and testing and commissioning.					
	(d) Rate includes the complete delivery of the system and is of working condition.					
	(e) All pipe work and fittings shall be uPVC.					
	(f) All works complete as per drawing and specification					
10.3.00	<b>FRESH WATER SUPPLY NETWORK</b>					
10.3.01	SCIENCE LAB	item	1.00			
10.3.02	GENERAL LAB	item	1.00			
10.4.00	<b>SANITARY FITTINGS</b>					
	Sanitary fittings including installations as per drawings					
	<u>SCIENCE LAB</u>					
10.4.01	Single bowl basin/sink	nr	11.00			
10.4.02	Wash basin tap	nr	11.00			
10.4.03	Isolation valve with valve chamber	no	3.00			
	<u>GENERAL LAB</u>					
10.4.04	Single bowl basin/sink	nr	2.00			
10.4.05	Wash basin tap	nr	2.00			
10.4.06	Ceiling clean out with access plate	nr	1.00			
10.4.07	Isolation valve with valve chamber	no	1.00			
10.5.00	<b>DRAINAGE</b>					
10.6.00	<b>GENERAL</b>					
	(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 pipeworks shall be uPVC.					
	(c) All works complete as per drawing and specification					
10.7.00	<b>DRAINAGE WORKS</b>					
	<u>SCIENCE LAB</u>					
10.7.01	Drainage pipe work complete	item	1.00			
	<u>GENERAL LAB</u>					
10.7.02	Drainage pipe work complete	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
10.8.00	<b>TOTAL OF BILL No: 10 - Carried Over To Summary</b>					
11.0.00	<b>Bill No: 11 - ELECTRICAL INSTALLATIONS</b>					
11.1.00	<b>GENERAL</b>					
	(a) Design, provide and install electrical network for the entire building complete in accordance to standards set by the local governing body STELCO / FENAKA.					
	(b) The following items and description and the drawings HULS - 01 to HULS-05 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.					
	(c) The cost shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories.					
	(d) The cost shall also include for trenching including: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil.					
	(e) Rates for electrical isolators, conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces.					
	(f) A light fixture is measured as one point; switch end of wire is not included in the quantity.					
	(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.					
	(h) Contractor shall provide all cabling, wiring, conduits, etc. within the site boundaries. Cabling, wiring, conduits etc. outside the site boundaries are not included under this Contract.					
	(i) All works complete as per drawing and specification					
11.2.00	<b>ELECTRICAL WIRING</b>					
	Electrical wiring with copper conductor cable in conduits in					
11.2.01	SCIENCE LAB	item	1.00			
11.2.02	STEM / COMPUTER LAB	item	1.00			
11.2.03	GENERAL LAB	item	1.00			
11.3.00	<b>DB</b>					
11.3.01	SCIENCE LAB	nr	1.00			
11.3.02	STEM / COMPUTER LAB	nr	1.00			
11.3.03	GENERAL LAB	nr	1.00			
11.4.00	<b>LIGHTING</b>					
	<u>SCIENCE LAB</u>					
11.4.01	2X28W, 4000K, LED tube light with opal casing. CL2	nr	20.00			
11.4.02	Emergency light	nr	1.00			
	<u>STEM / COMPUTER LAB</u>					
11.4.03	2X28W, 4000K, LED tube light with opal casing. CL2	nr	12.00			
11.4.04	Emergency light	nr	1.00			
	<u>GENERAL LAB</u>					
11.4.05	2X28W, 4000K, LED tube light with opal casing. CL2	nr	16.00			
11.4.06	Emergency light	nr	4.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
<b>11.5.00</b>	<b>FAN</b>					
	<u>SCIENCE LAB</u>					
11.5.01	Ceiling fan ( 52"-54")	nr	9.00			
	<u>STEM / COMPUTER LAB</u>					
11.5.02	Ceiling fan ( 52"-54")	nr	6.00			
	<u>GENERAL LAB</u>					
11.5.03	Ceiling fan ( 52"-54")	nr	8.00			
<b>11.6.00</b>	<b>SWITCHES</b>					
	<u>SCIENCE LAB</u>					
11.6.01	Ceiling fan switch	nr	9.00			
11.6.02	2 gang switch	nr	3.00			
	<u>STEM / COMPUTER LAB</u>					
11.6.03	Ceiling fan switch	nr	6.00			
11.6.04	2 gang switch	nr	1.00			
	<u>GENERAL LAB</u>					
11.6.05	Ceiling fan switch	nr	4.00			
11.6.06	2 gang switch	nr	4.00			
<b>11.7.00</b>	<b>SOCKETS</b>					
	<u>SCIENCE LAB</u>					
11.7.01	13A single switch type power outlet	nr	16.00			
11.7.02	13A twin switch type power outlet	nr	1.00			
11.7.03	13A twin switch type power outlet with weatherproof outlet	nr	17.00			
11.7.04	15A single switch type power outlet	nr	5.00			
	<u>STEM / COMPUTER LAB</u>					
11.7.05	13A twin switch type power outlet	nr	36.00			
11.7.06	15A single switch type power outlet	nr	4.00			
	<u>GENERAL LAB</u>					
11.7.07	13A single switch type power outlet	nr	28.00			
11.7.08	13A twin switch type power outlet	nr	3.00			
11.7.09	13A single switch type power outlet with weatherproof outlet	nr	5.00			
11.7.10	15A single switch type power outlet	nr	4.00			
<b>11.8.00</b>	<b>IT, SECURITY</b>					
	<u>SCIENCE LAB</u>					
11.8.01	Data socket point	nr	1.00			
11.8.02	Speaker	nr	2.00			
11.8.03	Dome CCTV	nr	4.00			
11.8.04	Door operating system	nr	2.00			
11.8.05	Emergency door release	nr	2.00			
11.8.06	Exist switch	nr	2.00			
11.8.07	Electromagnetic lock	nr	2.00			
11.8.08	Digital video recorder	nr	1.00			
	<u>STEM / COMPUTER LAB</u>					
11.8.09	Data socket point	nr	33.00			
11.8.10	Speaker	nr	2.00			
11.8.11	Dome CCTV	nr	2.00			
11.8.12	Door operating system	nr	1.00			
11.8.13	Emergency door release	nr	1.00			
11.8.14	Exist switch	nr	1.00			
11.8.15	Electromagnetic lock	nr	1.00			
11.8.16	Digital video recorder	nr	1.00			
	<u>GENERAL LAB</u>					
11.8.17	Data socket point	nr	1.00			
11.8.18	Speaker	nr	4.00			
11.8.19	Dome CCTV	nr	4.00			
11.8.20	Door operating system	nr	2.00			
11.8.21	Exist switch	nr	2.00			
11.8.22	Emergency door release	nr	2.00			
11.8.23	Electromagnetic lock	nr	2.00			
11.8.24	Digital video recorder	nr	1.00			
<b>11.9.00</b>	<b>AIR CONDITION /VENTILATION</b>					
	a. All the ACV equipment should be Anti corrosive Rates shall include for complete installation of units					
	<u>SCIENCE LAB</u>					
11.9.01	Outdoor unit side discharge, 24000BTU	nr	2.00			



ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
11.9.02	Outdoor unit side discharge, 12000BTU	nr	2.00			
11.9.03	Outdoor unit side discharge, 9000BTU	nr	1.00			
11.9.04	Wall mounted AC unit, 9000BTU	nr	1.00			
11.9.05	Wall mounted AC unit, 12000BTU	nr	2.00			
11.9.06	Wall mounted AC unit, 24000BTU	nr	2.00			
11.9.07	Wall mounted fan 25L/S	nr	1.00			
11.9.08	Wall mounted fan 50L/S	nr	1.00			
11.9.09	Ceiling mount exhaust fan with shutter, 50LS with louver with bird screen and piping	nr	1.00			
	<u>STEM / COMPUTER LAB</u>					
11.9.10	Outdoor unit side discharge, 24000BTU	nr	2.00			
11.9.11	Wall mounted AC unit, 24000BTU	nr	2.00			
	<u>GENERAL LAB</u>					
11.9.12	Outdoor unit side discharge, 12000BTU	nr	4.00			
11.9.13	Wall mounted AC unit, 12000BTU	nr	4.00			
	Kitchen exhaust hood	nr	1.00			
<b>11.10.00</b>	<b>TOTAL OF BILL No: 11 - Carried Over To Summary</b>					
<b>12.0.00</b>	<b>Bill No: 12- INSULATION, FIRE STOPPING &amp; FIRE PROTECTION</b>					
<b>12.1.00</b>	<b>GENERAL</b>					
	(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 cable conduits, fittings, equipment and similar items shall include for: all fixings to various building surfaces					
	(c) Rates shall include for all necessary electrical wiring and accessories required for completion as per drawing and specification					
	(d) All items shall be supply and complete installation					
	(e) All works complete as per drawing and specification					
<b>12.2.00</b>	<b>FIRE DETECTION SYSTEM</b>					
	<u>SCIENCE LAB</u>					
12.2.01	Smoke detectors	nr	1.00			
12.2.02	Heat detectors	nr	3.00			
12.2.03	Fire blanket	nr	1.00			
12.2.04	Fire alarm sounder with strobe light 95DB and manual call point	nr	1.00			
12.2.05	Exit sign light	nr	1.00			
12.2.06	Fire resistance cable	item	1.00			
	<u>STEM / COMPUTER LAB</u>					
12.2.07	Smoke detectors	nr	2.00			
12.2.08	Fire alarm sounder with strobe light 95DB and manual call point	nr	1.00			
12.2.09	Exit sign light	nr	1.00			
12.2.10	Fire resistance cable	item	1.00			
	<u>GENERAL LAB</u>					
12.2.11	Smoke detectors	nr	2.00			
12.2.12	Heat detectors	nr	2.00			
12.2.13	Fire alarm sounder with strobe light 95DB and manual call point	nr	2.00			
12.2.14	Fire blanket	nr	1.00			
12.2.15	Exit sign light	nr	2.00			
12.2.16	Fire resistance cable	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
<b>12.3.00</b>	<b>FIRE PROTECTION SYSTEM</b>					
	<u>SCIENCE LAB</u>					
12.3.01	Fire extinguisher - 2Kg CO <sub>2</sub> in cabinet	nr	1.00			
12.3.02	Fire extinguisher - 6L H <sub>2</sub> O in cabinet	nr	1.00			
	<u>STEM / COMPUTER LAB</u>					
12.3.03	Fire extinguisher - 2Kg CO <sub>2</sub> in cabinet	nr	1.00			
12.3.04	Fire extinguisher - 6Kg DCP in cabinet	nr	1.00			
	<u>GENERAL LAB</u>					
12.3.05	Fire extinguisher - 2Kg CO <sub>2</sub> in cabinet	nr	2.00			
12.3.06	Fire extinguisher - 6L H <sub>2</sub> O in cabinet	nr	2.00			
<b>12.4.00</b>	<b>TOTAL OF BILL No: 12 - Carried Over To Summary</b>					
<b>13.0.00</b>	<b>Bill No: 13 - LABORATORY GAS SYSTEM</b>					
<b>13.1.00</b>	<b>GENERAL LAB</b>					
13.1.01	Complete pipe work and installation of Lab gas to the allocated rooms with all necessary equipment and accessories and maintenance as per drawing,	item	1.00			
<b>13.2.00</b>	<b>SCIENCE LAB</b>					
13.2.01	Complete pipe work and installation of Lab gas to the allocated rooms with all necessary equipment and accessories and maintenance as per drawing,	item	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
13.3.00	TOTAL OF BILL №: 13 - Carried Over To Summary					
14.0.00	Bill №: 14- MISCELLANEOUS WORK					
14.1.00	<b>GENERAL</b> (e) All works complete as per drawing and specification					
14.2.00	<b>SCIENCE LAB</b>					
14.2.01	First Aid kit	no	1.00			
14.2.02	Wall mounted Eye wash station with self regulating floor control valve	no	1.00			
14.3.00	<b>STEM / ICT LAB</b>					
14.3.01	First Aid kit	no	1.00			

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
14.3.00	TOTAL OF BILL No: 14 - Carried Over To Summary					
15.0.00	Bill No: 15 - ADDITIONS AND OMMISIONS					
15.1.00	<b>ADDITIONS</b>					
15.1.01	Bill No: 01 - PRELIMINARIES					
15.1.02	Bill No: 02 - DEMOLITION WORKS					
15.1.03	Bill No: 03 - MASONRY					
15.1.04	Bill No: 04 - CEILING / PARTITION					
15.1.05	Bill No: 05 - WINDOWS					
15.1.06	Bill No: 06 - DOORS					
15.1.07	Bill No: 07 - PAINTING					
15.1.08	Bill No: 08 - FINISHES					
15.1.09	Bill No: 09 - FURNITURE					
15.1.10	Bill No: 10 - HYDRAULICS AND DRAINAGE					
15.1.11	Bill No: 11 - ELECTRICAL INSTALLATIONS					
15.1.12	Bill No: 12 - INSULATION, FIRE STOPPING & FIRE PROTECTION					
15.1.13	Bill No: 13 - LABORATORY GAS SYSTEM					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
15.1.14	Bill No: 14- MISCELLANEOUS WORK					
	<b>TOTAL</b>					
<b>15.2.00</b>	<b>OMISSIONS</b>					
15.2.01	Bill No: 01 - PRELIMINARIES					
15.2.02	Bill No: 02 - DEMOLITION WORKS					
15.2.03	Bill No: 03 - MASONRY					
15.2.04	Bill No: 04 - CEILING / PARTITION					
15.2.05	Bill No: 05 - WINDOWS					
15.2.06	Bill No: 06 - DOORS					
15.2.07	Bill No: 07 - PAINTING					
15.2.08	Bill No: 08 - FINISHES					
15.2.09	Bill No: 09 - FURNITURE					
15.2.10	Bill No: 10 - HYDRAULICS AND DRAINAGE					
15.2.11	Bill No: 11 - ELECTRICAL INSTALLATIONS					
15.2.12	Bill No: 12 - INSULATION, FIRE STOPPING & FIRE PROTECTION					
15.2.13	Bill No: 13 - LABORATORY GAS SYSTEM					
15.2.14	Bill No: 14- MISCELLANEOUS WORK					
	<b>TOTAL</b>					
<b>15.3.00</b>	<b>TOTAL OF BILL No: 15 - Carried Over To Summary</b>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
<b>16.0.00</b>	<b>Bill No: 16 - ELECTRICIAN LAB</b>					
<b>16.1.00</b>	<b>PRELIMINARIES</b>					
16.1.01	<b>General</b> Renovation of N. HOLHUDHOO SCHOOL below mentioned rooms. <b>ELECTRICIAN LAB</b>					
<b>16.2.00</b>	<b>DEMOLITION WORKS</b>					
	Removal of existing door/window and making the opening to the required dimension to fix the new as per drawing,					
16.2.01	Door - D1	no	1.00			
16.2.02	Door - D2	no	1.00			
16.2.03	Scratch off existing paint coat on internal surface of walls	m <sup>2</sup>	111.24			
16.2.04	Scratch off existing paint coat on external surface of walls	m <sup>2</sup>	21.75			
16.2.05	Removal of existing ceiling including fans / lights as per drawing	m <sup>2</sup>	84.90			
16.2.06	Cutting holes/ducts in walls to embed electrical conduit and fittings.	item	1.00			
16.2.07	Demolition of existing floor tiling as per drawing	m <sup>2</sup>	84.90			
<b>16.3.00</b>	<b>MASONRY AND PLASTERING</b>					
16.3.01	Plastering including putty application on the cut holes/ducts after embedding the conduit.	item	1.00			
16.3.02	50mm thk floor screed on required areas where screed is damaged	m <sup>2</sup>	84.90			
<b>16.4.00</b>	<b>CEILING</b>					
16.4.01	9mm thick PVC panel ceiling mounted on aluminium frame as specified the drawing. (if required)	m <sup>2</sup>	84.90			
<b>16.5.00</b>	<b>WINDOWS</b>					
16.5.01	1940 x 1600 Reflective film on clear glass panels of existing window - <b>W1</b>	nr	2.00			
16.5.02	1340 x 1600 Reflective film on clear glass panels of existing window - <b>W2</b>	nr	4.00			
<b>16.6.00</b>	<b>DOORS</b>					
16.6.01	1200 x 2550 50mm thick powder coated (60 microns) aluminum framed door - <b>D1</b>	nr	1.00			
16.6.02	800 x 2550 50mm thick powder coated (60 microns) aluminum framed door - <b>D2</b>	nr	1.00			
<b>16.7.00</b>	<b>PAINTING</b>					
16.7.01	EXTERNAL SURFACES: Exterior grade matte emulsion paint finish ground smooth in as specified	m <sup>2</sup>	21.75			
16.7.02	INTERNAL SURFACES: Interior grade matte emulsion paint finish ground smooth and waterproof paint in specified areas as per drawing.	m <sup>2</sup>	111.24			
<b>16.8.00</b>	<b>FINISHES</b>					
16.8.01	600 x 600mm porcelain non-slip floor tile over mortar as specified in the drawing.	m <sup>2</sup>	84.90			
<b>16.9.00</b>	<b>HYDRAULICS AND DRAINAGE</b>					
	FRESH WATER SUPPLY NETWORK					
16.9.01	Fresh water supply network	item	1.00			
	SANITARY FITTINGS					
16.9.02	Foot operated hand wash sink	nr	1.00			
	DRAINAGE PIPE WORKS					
16.9.03	Drainage pipe work complete	item	1.00			
16.9.04	Underground isolation valve with valve chamber	no	1.00			
<b>16.10.00</b>	<b>ELECTRICAL INSTALLATION</b>					
	<u>ELECTRICAL</u>					

ITEM	DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
16.10.01	Electrical wiring with copper conductor cable in conduits in walls as specified	item	1.00			
16.10.02	Distribution board	nr	1.00			
16.10.03	2X28W, 4000K, LED tube light with opal casing. CL2	nr	18.00			
16.10.04	Emergency light	nr	1.00			
16.10.05	Ceiling fan ( 52"-54")	nr	9.00			
16.10.06	Ceiling fan switch	nr	9.00			
16.10.07	2 gang 1 way switch	nr	2.00			
16.10.08	13A single switch type power outlet	nr	33.00			
16.10.09	13A twin switch type power outlet	nr	1.00			
16.10.10	15A single switch type power outlet	nr	4.00			
	<u>IT, SECURITY</u>					
16.10.11	Data socket point	nr	1.00			
16.10.12	Speaker	nr	2.00			
16.10.13	Dome CCTV	nr	2.00			
16.10.14	Door operating system	nr	1.00			
16.10.15	Emergency door release	nr	1.00			
16.10.16	Exist switch	nr	1.00			
16.10.17	Electromagnetic lock	nr	1.00			
	<u>AIR CONDITION /VENTILATION</u>					
16.10.18	Outdoor unit side discharge, 18000BTU	nr	2.00			
16.10.19	Outdoor unit side discharge, 12000BTU	nr	2.00			
16.10.20	Wall mounted AC unit, 18000BTU	nr	2.00			
16.10.21	Wall mounted AC unit, 12000BTU	nr	2.00			
16.10.22	Wall mounted fan 25L/S	nr	1.00			
<b>16.11.00</b>	<b><u>FIRE DETECTION AND PROTECTION SYSTEM</u></b>					
16.11.01	Fire extinguisher - 2Kg CO <sub>2</sub> in cabinet	nr	1.00			
16.11.02	Fire extinguisher - 6Kg DCP in cabinet	nr	1.00			
16.11.03	Smoke detectors	nr	1.00			
16.11.04	Heat detectors	nr	2.00			
16.11.05	Fire alarm sounder with strobe light 95DB and manual call point	nr	1.00			
16.11.06	Exit sign light	nr	1.00			
16.11.07	Fire resistance cable	item	1.00			
<b>16.12.00</b>	<b><u>MISCELLANEOUS</u></b>					
16.12.01	First Aid kit	no	1.00			
<b>16.13.00</b>	<b><u>ADDITIONS AND OMISSIONS</u></b>					
16.13.01	PRELIMINARIES	item	1.00			
16.13.02	DEMOLITION WORKS	item	1.00			
16.13.03	MASONRY AND PLASTERING	item	1.00			
16.13.04	CEILING	item	1.00			
16.13.05	WINDOWS	item	1.00			
16.13.06	DOORS	item	1.00			
16.13.07	PAINTING	item	1.00			
16.13.08	FINISHES	item	1.00			
16.13.09	HYDRAULICS AND DRAINAGE	item	1.00			
16.13.10	ELECTRICAL INSTALLATION	item	1.00			
16.13.11	FIRE DETECTION AND PROTECTION SYSTEM	item	1.00			
16.13.12	MISCELLANEOUS	item	1.00			

ITEM		DESCRIPTION	UNIT	QTY	MATERIAL RATE	LABOUR RATE	AMOUNT
		TOTAL OF BILL - Carried Over To Summary					