



REPUBLIC OF LEBANON
COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters (Public Schools)

Batch 3: Lot 4

MOUNT LEBANON & SOUTH LEBANON
in Cazas of Baabda, Aley, Chouf, Saida, Sour & Marjeyoun

VOLUME 3
BILL OF QUANTITIES

September 2026



Rafik El - Khoury & Partners
Consulting — Engineers

Cost Summary - Batch 3 Lot 4 (Zone 4 - Mount Lebanon & South)

School Code	School Name	Amount (US \$)
General Requirements (applicable to all schools in this Lot)		
	Provisional Sum	\$50,000.00
106	ثانوية الحدث الرسمية	
157	الشويفات القبة للبنات الرسمية المتوسطة	
158 / 152	اسماعيل امان حسن حيدر الرسمية للصبيان - ثانوية عرمون الرسمية	
159	الشويفات الامراء الرسمية المختلطة	
236	ثانوية قرنايل الرسمية	
250	متوسطة العبادية الرسمية المختلطة	
254	صليبا المتوسطة المختلطة الرسمية	
258	مدرسة عاليه الرسمية المختلطة الحي الغربي	
263	بيصور الرسمية المتوسطة المختلطة	
268	بشامون الرسمية المتوسطة المختلطة	
270	مدرسة شانيه المتوسطة المختلطة الرسمية	
273	ثانوية مجدليعا الرسمية	
281	مشقيتي الرسمية المتوسطة المختلطة	
307	مدرسة المربي رؤوف أبي غانم المتوسطة المختلطة الرسمية	
330	بريح الرسمي المتوسطه المختلطه	
1059	عين الدلب المتوسطة الرسمية	
1195	ثانوية مرجعيون الرسمية	
1225	المساكن الشعبية الرسمية	
1452	ثانويه دامور الرسمي	
1453	ثانوية بتلون الرسمية	
1487	ثانوية شحيم الرسمية فرع الزعرورية	
1599	ثانوية صوفر الرسمية المختلطة	
Total Amount of Bid — Lot 4		



Lebanese Emergency Assistant Project (LEAP)

Bill of Quantities

Rehabilitation of Shelters

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Lot 4 - Mount Lebanon & South — Preamble & General Requirements (Applicable to All Schools in this Lot)

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Description

Preamble

Bill № 1: General Requirements

Preamble



Item	Description
1	<u>INTRODUCTION</u>
1.01	This is a Lump Sum Contract.
1.02	The estimated quantities set-out in the Bill of Quantities are indicative, and the actual and correct quantities needed for the execution of the Works are the sole responsibility of the Contractor. All executed and accepted Works shall be paid to the Contractor at the corresponding lump sum or rates on the estimated quantities shown in this Bill of Quantities.
1.03	Only modifications, omissions or additions in extent of work, ordered by the Employer in accordance with the Conditions of the Contract, shall be measured and paid for as executed, completed and accepted by the Employer, and shall be calculated as an addition or deduction to the Lump Sum of the Contract on the basis of the Contract rates or approved rates to be presented by the Contractor for non priced new items.
1.04	Where an item is found to have already been carried out by the Employer, the school, or any other party, the Project Manager will issue a Variation omitting it; the omission is valued from the priced BOQ and the Contract Price will be reduced accordingly, with no entitlement to loss of profit or to extension of time. This will require a dated pre-condition photographic evidence before works begin at each school during Site Handing Over.
1.05	Contractor will be paid only for works actually executed by the Contractor and certified by the Project Manager, and requires the Contractor to submit, within 5 calendar days of the Site Handing Over of each School, a modified priced BOQ per school for use in works valuation and the valuation of any omission.
1.06	The Project Manager shall not certify the value of any item not executed by the Contractor, including any item dealt with as an omission.



Item	Description
1.07	The items and the estimated quantities in the Breakdown of the Lump Sum do not necessarily contain full description of the required Works, the Contractor shall allow in his unit rates for any additional quantity and all obligations, liabilities and services stipulated in the relevant sections of all Contract Documents to provide and maintain a complete construction and installation of each item.
1.08	Before Pricing the Contract, the Contractor shall visit the Sites and shall satisfy himself as to the meaning and to the estimated quantity of each item in the Bill of Quantities. The rates inserted by the Contractor shall be deemed to cover all costs, expenses, risks, liabilities, obligations and services described in the Contract Documents, the full quantity and cost of the Works of each item as observed on Site, including all direct and indirect expenses, sundry labors, overhead and profit, and all matters for the proper construction, completion and maintenance of the Works.
1.09	The Bills of Quantities are to be read and construed in association with the Specification and this Preamble. Information which is given in the Specification is identified by cross references included in the descriptions of work in the Bill of Quantities.
1.10	The Contractor shall allow in his rates for protecting all Works against damage by whatever method deemed necessary and approved. Any work damaged during the Works shall be replaced or made good at the Contractor's expense and to Employer's satisfaction before the Works are handed over.
1.11	Where work cannot be fully described or where the quantity of work required cannot be accurately determined, it is given as an item or a Provisional Sum.
1.12	Unless the term meter, used in this Preamble, is proceeded by the words square or cubic it is deemed to be linear.
1.13	The rates inserted by the Tenderer in the Bill of Quantities shall be in words and figures. In the case of discrepancy between the two, the rates written in words shall govern.



Item	Description
2	<u>QUANTITIES</u>
2.01	Quantities set out in the Bills of Quantities are the estimated quantities and they shall not be taken as the actual and correct quantities for ordering and purchasing
2.02	Works shall be measured net as fixed in position in accordance with the rules contained in this preamble or except where otherwise stated in a measurement rule applicable to the work.
2.03	Dimensions used in calculating quantities are taken to the nearest integer (0.5 and over is regarded as 1 and less than 0.5 is disregarded).
2.04	Quantities measured in tonnes are given to two places of decimals. Quantities measured in other units of mass are given to the nearest whole unit except that any quantity less than one unit is given as one unit.
2.05	Unless otherwise stated, where minimum deductions for voids are dealt with in this Preamble they refer only to openings which are within the boundaries of measured areas. Openings which are at the boundaries of measured areas are always deducted irrespective of size.
3	<u>DESCRIPTIONS</u>
3.01	Headings to groups of items in the Bill of Quantities are to be read as part of the descriptions of the items to which the headings apply.
3.02	Dimensions are stated in descriptions generally in the sequence, length, width, height. Where ambiguity could arise, the dimensions are identified.
3.03	Dimensions given in descriptions are in millimeters unless otherwise indicated.
3.04	Unless otherwise specifically stated in the Bill of Quantities or herein, the following are deemed to be included in all work:

- labor and all costs in construction therewith,



Item	Description
	- materials, products, goods and all costs in connection therewith, - Contractor's equipment, including but not limited to construction plant, scaffolding, tools, vehicles and the like and all costs in connection therewith, - assembling, fitting and fixing materials, products and goods in position, - any method of fixing, fixing to any nature of base or background including preparation and providing fixing materials, - breaking down for transport and installation and subsequent reassembly of composite items manufactured - waste of materials, - square, raking and curved cutting, - work at any location or height, - work in small, isolated quantities, - protection of all work, - protection of all existing structures, utilities, site improvements, trees and vegetation, features, pavements and other facilities on and adjacent to the site, which are to remain upon completion of the work, - all other enabling tasks associated and subsidiary components and items of work which are indicated or reasonably inferred from the Specification and necessary to perform and complete the work described, - establishment and overhead charges and profit.
3.05	Except where items are included in the Bill of Quantities and are priced separately by the Contractor therein, provision of the following are deemed to be included with - site administration and security, - insurances,



Item	Description
	- bonds and guarantees, - water for the Works, - lighting and power for the Works, - temporary accommodation for the use of the Contractor and the Engineer, - temporary telephones and the cost of calls for the use of the Contractor and the Engineer, - temporary roads, hard standings, crossings and the like, - temporary fencing, hoardings, screens, fans, footways, guardrails, gantries and the like, - giving notices and making applications, including the payment of fees and charges in connection therewith, - safety, health and welfare of workpeople, - compliance with traffic regulations - maintenance of public and private roads, services and adjoining property, - control of noise and pollution, prevention of fire and compliance with all other statutory and general obligations, - removing rubbish, protective casings and coverings, and cleaning the Works on completion, - drying the Works, - testing and commissioning of service installations including the provision of fuel, - samples of materials and testing of materials including providing equipment for testing, - design, co- ordination, installation and as- built record drawings and the like, - preparation and submittal of reports, records, certificates, notices, proposals, designs, details, calculations and other information and data required by the Specification,



Item	Description
	- allow in unit rates for all other requirements, services, provisions, liabilities and obligations contained in the General Requirements and Conditions of Contract. - Maintaining, adapting, clearing away and making good are deemed to be included with the items for temporary - Payment of any customs and other import duties, harbor and port dues, wharf age, landing, pilotage and any other charges or dues including demurrage charges on any Goods or other things required for or in connection with the Works entering or leaving the country.
4	<u>SYMBOLS, ABBREVIATIONS & DEFINITIONS</u>
4.01	The following symbols and abbreviations are used in this Preamble and in the Bills of Quantities: Lump Sum LS Linear Meter m Square Meter m² Cubic Meter m³ Centimeter cm Millimeter mm Number № Kilogramme kg Tonne T Percentage % Nominal Diameter Φ Quantity Qty Drawing Drg / Dwg Mega Pascal MPa
4.02	The following definitions apply to all work: - 'horizontal' means level or sloping work not exceeding 15° from the horizontal - 'sloping' means sloping work exceeding 15° but not exceeding 80° to the horizontal, - 'vertical' means work exceeding 80° from the horizontal, - 'curved' means curved in any direction or in more than one direction and to any radius or radii and includes curved work to domes, vaults and the like.
4.03	The term 'extra over' means that work so described involves extra cost over the basic work in which it occurs. No deduction of the quantity of basic work is made for the extra over work.



Item	Description
5	<u>MECHANICAL ENGINEERING SERVICES PREAMBLE</u>
5.01	Mechanical equipment has been measured in complete items unless otherwise stated in the specification and bill item. The rates for all items shall include for supplying all materials, fixing, terminating and connecting all accessories and components for a complete and functional
5.02	The Contractor shall consult the relevant sections of the specification when query or doubt arise.
5.03	The Contractor shall consult with, and employ specialist sub-contractors for specific items of work as identified in the specification. All costs associated with such works shall be included in the tender. Specialist sub-contractors will be of recognized expertise, acceptable to the engineer.
5.04	All items of mechanical plant shall be connected to the control and power systems by wiring out from the mechanical control centers. All wiring shall be carried out by competent and qualified electricians under the mechanical scope of works.
5.05	Rates/prices entered against the items shall include for all costs in connection with the following:
a.	Connection items of plant and equipment as necessary to the control and power systems.
b.	Provision of starter's, protective devices, automatic change over/load shedding facilities, remote & local isolation/emergency shut off as appropriate, control functions and alarms to achieve the intent outlined in the Control Section of the Specification. All motors to be of the 'Low Energy' type as specified.
c.	Off loading, storing, connecting up, protecting as necessary, testing, flushing, cleaning, charging, balancing, commissioning and testing individual items of plant as well as complete systems installations all as specified & directed by Engineer.
d.	Supports, brackets and fixings of every description required to complete the works.
e.	Cutting or forming all holes, mortises, chases and the like in the structure to facilitate the various works and making good in all trades as necessary;



Item	Description
f.	Coordination with other associated trades, designers and specialists, at the time preparing shop drawings and during the works progress.
g.	Cost of the items in the BOQ includes all works, materials and labors of all items mentioned above.
6	<u>ELECTRICAL ENGINEERING SERVICES PREAMBLE</u>
6.01	Rates for all items of equipment and materials shall be inclusive of all labor, electric power during installation and testing oxygen, acetylene, water, transport, rigging, temporary works, stores, offices, instruments insurance, customs, duties, overhead, profit certificates, samples, tests, supply of all information and data, supply of catalogues, charts, curves, submittals and all other information and services called for in the specification, all fully connected up and good working order. Rates shall
a.	All builders work in connection with fixing of supports brackets, clips as required
b.	Cutting or forming all openings, mortises, chases, etc., in floors, walls and ceiling required for the installation and making good after
c.	Construction of manholes, handholes and the like
d.	Fitting of access doors in walls and ceilings.
e.	Supplying and fixing supports, brackets and clips as required.
f.	Cutting away and making good after all trades for frames, sleeves, cables, cable trays, chases for conduits and fixing of electrical boxes, conduits, accessories.
g.	Excavating and back filling trenches for cables, pipes and providing and laying precast concrete protective tiles.
h.	Repair, repaint and generally make good and leave in perfect condition all the work executed by him under the
I.	All other work in connection with the installation that is not measured separately.
j.	Electrical equipment is enumerated unless otherwise stated and the rates shall include for supplying all materials labor, plant, fixing, terminating and connecting



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Item	Description
k.	Feeder cables are measured in linear meters from the boards to equipment, or from the distribution board to sub-main, etc. Rates shall include for the supply of materials, laying, terminating, trenching, cable trays, ducting, etc.
l.	Lighting points are enumerated and the rates shall include all necessary wires, conduits, boxes and accessories, etc., required to provide power from the LP boards switch panels and switches are measured separately.
m.	Lighting fittings are enumerated and the rates shall include the supply, installation and connections.
n.	Disconnecting/Isolating switches are enumerated and the rates shall include all necessary wires, conduits, boxes etc. If the switches are fed by cables, then the cables are measured separately.
o.	Lighting switches, sockets, fan/coil unit spur boxes, fused spurs for fans, kitchen, laundry equipment outlets, toilet fans points are enumerated and the rates for each shall include all wiring, conduits, accessories etc.
p.	Earthing systems to include for all materials, labor, fixing, terminating, earth pits, rods, conductors, excavations.
q.	Main distribution board, sub-mains, lighting and power panels, panel boards, etc., are enumerated items and rates shall include all the board installed completely as specified. (cables are measured separately)
r.	End of session bell system is one item. Bells and bell push button, are enumerated and include all conducting, wiring, controls, and all necessary accessories.
s.	Lightning protection system, roof conductors, tie conductors down conductors are measured in linear meters completely installed.
t.	Earth pits are enumerated. The cost shall include all materials, wiring, fixing, supports, etc., and bolting copper conductors to rebars to have a complete working system.
u.	The rates for automatic transfer switches include the switches completely installed with all ancillary equipment, control, modules to have a complete working system.
v.	Cost of the items in the BOQ includes all works, materials and labors of all items mentioned above.



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Item	Description
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End of Preamble

Bill № 1: General Requirements



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Bill № 1: General Requirements

Lot 4 - Mount Lebanon & South — Preamble & General Requirements (Applicable to All Schools in this Lot)

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
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Notes

These General Requirements are applicable to the whole of the Works.

If the Tenderer wishes to price any of the items contained herein, then each such item, clause, or sub-clause must be individually priced.

The Tenderer shall not enter lump sums covering more than one or all items, clauses and sub-clauses.

The General Requirements items shall be priced by the Contractor and shall not be considered included in the rates for Works items elsewhere in the Bill of Quantities as these Works items may be subject to omissions as described in the Preamble and in the Conditions of Contract.

1 Preliminaries

1.01 Insurance

Provide the following insurances from an approved insurance company, all as detailed in the Conditions of

- Professional Indemnity Insurance.
- Contractor's All Risk Insurance.
- Plant and Equipment Insurance.
- Workmen Compensation Insurance.
- Third Party Insurance.

LS 1

Lump Sum in Words:

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1.02 Programme of Works

Prepare and submit to the Engineer for approval a detailed Programme for the construction showing the proposed order & method to execute the Works, the dates upon which the various elements, trades, sections and items of Works will be started and completed, and the cash flow estimate, complete including monthly forty-five day program, all necessary revisions and updates, monitoring, all supporting data, computer analysis schedules, and all other related works, all to Engineer's satisfaction.

LS 1

Lump Sum in Words:

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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1.03	<u>Mobilization and Demobilization</u> Mobilization to site and demobilization on completion of <i>Lump Sum in Words:</i> 	LS	1		
1.04	<u>Water for the Works</u> Provide until handing over, clean and uncontaminated Water for the Works and suitable for all purposes, complete including coordination with all relevant authorities, transportation to site, pipework, pumps, connections and storage facilities where necessary. <i>Lump Sum in Words:</i> 	LS	1		
1.05	<u>Electrical Power for the Works</u> Provide all necessary adequate Electrical Power Supply required for the Works until handing over using silent generated power, complete including all necessary connections, fuel, maintenance, and if main power is available, allow for all necessary coordination and connections with relevant local authorities, and for all charges and fees incurred during the total duration of the Contract. <i>Lump Sum in Words:</i> 	LS	1		
1.06	<u>Protection Fence with Access</u> Provide, maintain and remove upon completion of works, a protection fence around the Works and where needed, with necessary access, to the satisfaction of the Engineer, and in accordance with the Conditions of Contract and relevant authorities' regulations. <i>Lump Sum in Words:</i> 	LS	1		
1.07	<u>Directional and Safety Site Signage</u>				



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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
	Provide, maintain and remove upon completion of works, directional and safety signage around the Works and where needed, complete all as specified, shown on approved shop drawings, to the satisfaction of the Engineer, and in accordance with the Conditions of Contract and relevant authorities' regulations.	LS	1		
	<i>Lump Sum in Words:</i>				



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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1.08	<u>Safety Procedures and Protection</u> Provide all necessary safety procedures and protection on site to all facets of work, to staff workmen, and to third party, in accordance with the Conditions of Contract, CDR Safety, Health and Environmental Regulations, and all other local Authorities Standards and Regulations. <i>Lump Sum in Words:</i>	LS	1		
1.09	<u>Daily Cleaning during Construction</u> Execute daily cleaning to keep the work, site and adjacent properties free from accumulations of waste material, rubbish and windblown debris, resulting from construction operations, complete including removing from the site periodically and disposing off at legal approved disposal areas away from the site, in full coordination with the <i>Lump Sum in Words:</i>	LS	1		
1.10	<u>Coordination with School Administration, MEHE and Other Authorities</u> Coordinate work with School Administration, MEHE, & other applicable Authorities, and abide by their regulations. <i>Lump Sum in Words:</i>	LS	1		
3	<u>Additional Items</u> The Contractor shall list and describe below any Additional Items that he considers to be of value and for which he wishes to include in his Tender, and shall include details of quantities and rates accordingly.				
3.01	<i>Lump Sum in Words:</i>	LS	1		
3.02	<i>Lump Sum in Words:</i>	LS	1		



Lot 4 - Mount Lebanon & South — Preamble & General Requirements (Applicable to All Schools in this Lot)

Bill № 1: General Requirements

Date: 9/11/2026



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Collection

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Amount (US \$)

1.1	
1.2	
1.3	
1.4	

Total Carried to General Summary	
	

SCHOOL NO.

106

ثانوية الحدث الرسمية



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Bill № 2: Civil and Architectural Works



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Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i> 	LS	1		
					0.00



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the wood element (e.g. door or window).				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair joint.				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling. similarly, number of glass panes/quarries before removal.				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges.				
	The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
					0.00



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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Repair lock of door	№	1		
	Replace hinges	№	3		
	Repair and repaint door	№	1		
	Door not opening completely	№	1		
	<i>Rate or Lump Sum in Words:</i>				
8.2	<u>Aluminum Doors and Windows</u>				
	Fabricate, supply and install aluminum works as manufactured by SIDEM 2000 first choice with all necessary accessories as per the drawings and the Engineer instructions, cost to include all doors and windows:				
	- Reveals hard stone 3cm thick, all around for external opening				
	- Apply EPDM around door and windows where necessary				
	- Single glass 6 mm				
	- Double glass 6-12-6 mm (Outer Glass should be Tempered)				
	- Hinges and locks				
	- Joint Filler				
	- Mosquito Screen				
	- Mesh				
	- All items needed as per the Engineer instructions				
	- All as specified and base on an approved shop drawings after exact dimensions				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u>				
	Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows				
	Window wheels & accessories	№	2		
	Lock for Aluminum window	№	1		0.00
	Aluminum window wheels	№	2		
	Aluminum door Repair	№	1		
	Aluminum door replace lock	№	1		0.00
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.10	<u>Laminate Vinyl Tiles</u>				
9.2.10.1	Provide Laminate Vinyl Tiles similar to existing. The removal of existing vinyl tiles, rolls, proper levelling, surfacing of the existing concrete by casting a special layer of new concrete to ensure proper installation of the new vinyl layer as specified and as per standards. Price to include skirting				
	Repair vinyl & skirting	m2	30		
	<i>Rate or Lump Sum in Words:</i>				
9.5	<u>Painting</u>				
9.5.1	<u>2</u>				
	Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings				
	The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat.				
	Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials.				
	All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval,				
	All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	945		
	<i>Rate or Lump Sum in Words:</i>				
					0.00



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

ثانوية الحدث الرسمية - 106

00000

Bill of Quantities

Bill № 2: Civil and Architectural Works

0.00

0.00

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Amount (US \$)

2.1 0.00

2.2 0.00

2.3 0.00

2.4 0.00

Total Carried to General Summary

Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works. Supply & install new WCs seat covers	Pcs	4		0.00
	<i>Rate or Lump Sum in Words:</i>				
1.2.2	Maintenance and rehabilitation of existing HVAC & fire fighting systems, including all necessary piping, duct works, pumps and controls, fans, mechanical works inside shafts, air conditioning units, etc. Repair fan	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u> Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps Replace all faucets	Nº	7		
	<i>Rate or Lump Sum in Words:</i>				
					0.00



Collection

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Amount (US \$)

3.1 0.00

Total Carried to General Summary 0.00

Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures	Replace lamps	Pcs	16	
	<i>Rate or Lump Sum in Words:</i>				
1.1.3	Sockets and switches	Replace Electrical switch & sockets	Pcs	4	
	<i>Rate or Lump Sum in Words:</i>				
					0.00

Lebanese Emergency Assistant Project (LEAP)
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General Summary



Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
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<u>Description</u>	<u>Amount (US \$)</u>
Bill № 2: Civil and Architectural Works	
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Bill № 4: Electrical Engineering Services	0.00
* Total Amount of Bill of Quantities	
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SCHOOL NOS.

152 & 158

ثانوية عرمون الرسمية
اسماعيل امان حسن حيدر الرسمية للصبيان



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Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

اسماعيل امان حسن حيدر الرسمية للصبيان 152 ثانوية عرمون الرسمية 158

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. Rate or Lump Sum in Words:	LS	1		
7	<u>THERMAL AND MOISTURE PROTECTION</u>				
7.2	<u>Polyurethane Waterproofing for Wet Areas</u>				
7.2.1	Polyurethane painting waterproofing (PU) including for all preparation works and related ancillaries. - DEEP cleaning of all surfaces and carting away of dust & debris - Apply Base coat - Apply two layers of PU paint include 20cm vertical high - The work should be executed by an expert - All needed works as per the Engineer instructions Severe water leakage Rate or Lump Sum in Words:	m ²	40		



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

اسماعيل امان حسن حيدر الرسمية للصبيان 152 ثانوية عرمون الرسمية 158

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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
10	<u>SPECIALTIES</u>				
10.2	Classroom Specialties				
10.2.2	<u>Educational Panels Inside Classrooms</u>				
10.2.2.1	Supply and install educational panels inside the KG classrooms and KG corridors as instructed by the Engineer The educational panels should be translucent anti bacterial fire rated PVC with a visual printed at the back Work to include: - Materials and labors - Adhesive materials - All needed items and as instructed by the Engineer	Broken screen to be replaced №	1		
	<i>Rate or Lump Sum in Words:</i>				

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Bill № 3: Mechanical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Defected non working toilet flush	pcs	5		
	<i>Rate or Lump Sum in Words:</i>				
1.2.2	Maintenance and rehabilitation of existing HVAC & fire fighting systems, including all necessary piping, duct works, pumps and controls, fans, mechanical works inside shafts, air conditioning units, etc.				
	Defected exhaust fans	pcs	5		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 4: Electrical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
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1 **BASIC ELECTRICAL REQUIREMENTS**

1.1 **Fixing and Repairing**

Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer.

All as per the drawings, specifications and Engineer instructions

1.1.1 Lighting fixtures: Replace lamps pcs 3

Rate or Lump Sum in Words:

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General Summary



Lebanese Emergency Assistant Project (LEAP)

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اسماعيل امان حسن حيدر الرسمية للصبيان 152 ثانوية عرمون الرسمية 158

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SCHOOL NO.

157

الشويات القبة الرسمية للبنات المتوسطة



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Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>..... 	LS	1		
7	<u>THERMAL AND MOISTURE PROTECTION</u>				
7.3	<u>Insulate the New and Old Basements Walls</u>				
7.3.1	Provide the necessary damp proof coarse protection for the underground walls (Basements, etc.) work to include the following: - Applying one Bituminous layer of tack coat directly over concrete surface without any intermediate layer like plaster or similar. - Applying one layer of SBS sheet 4mm thick with cantonal protection - Construct 10cm hollow concrete block work wall - The cost of labor - In addition to above works to include also required excavation and backfilling with proper materials - All needed works for a proper insulation as per instructions Negative water proofing coat & paint <i>Rate or Lump Sum in Words:</i>..... 	m²	13		

Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

الشويغات القبة الرسمية للبنات المتوسطة 157

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9	<u>FINISHES</u>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u>				
	Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings				
	The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat.				
	Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials.				
	All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval,				
	All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	75		
	<i>Rate or Lump Sum in Words:</i>				
					
					

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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Defected non working toilet flush	pcs	9		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u> Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	3		
	<i>Rate or Lump Sum in Words:</i>				
5.7	<u>Wall Type Self Close Taps on Drinking Basins</u> Supply and install self close taps to be fixed in the drinking basin body as manufactured by Grohe Item No. 36-176 with all required works and drain accessories including trap and to be connected to the new water supply and drain and as instructed by the Engineer				
5.7.1	Wall Type Self Close Taps for potable water	No	4		
	<i>Rate or Lump Sum in Words:</i>				



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SCHOOL NO.

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الشويات الامراء الرسمية المختلطة



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. Rate or Lump Sum in Words:	LS	1		
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.2	<u>Rehabilitate Timber Cupboard</u> Rehabilitate timber cupboards with plastic laminate color, work to include sub framing, drawer units, shelves, fixing and fastening hardware, heavy duty ironmongery, accessories, including finish, soft close, painting and all other related auxiliaries works as required by engineer - Repair wood elements in accordance with AWI Quality Standards requirements. - Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight. - Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece. - Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal. - (No patching is allowed for existing wooden works) Replace cupboards leaves Rate or Lump Sum in Words:	pcs	10		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges.				
	The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Replace door cover joint	Nº	1		
	Repair doors & accessories	Nº	3		
	Repair & paint door	Nº	4		
	Replace door lock	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
					
					

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.4	<u>Colored Powder Coated Aluminum Louver</u>				
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.4	<u>Repair existing broken floor tiles and skirting (all types) and reinstall by new, similar to existing for all rooms and corridors</u>				
8.2.4.1	Rehabilitate and repair all damaged and broken tiles, and skirting for any type (marble - ceramic - mosaic - Cement). Remove broken or damaged pieces to be replaced without affecting the adjacent undamaged areas Work to include: - Remove all debris as specified - All materials and labors - Difference tiles (shapes thickness, dimension, pattern) as needed. - Cutting and repair - Grouting - Polish and rubbing - All needed items as per Engineer comments and complete to Engineer approval.				
	Replace ceramic tiles	pcs	5		
	<i>Rate or Lump Sum in Words:</i>				
9.2.5	<u>Rehabilitate Existing Stair Treads and Riser</u> Remove the broken treads and risers, install and supply new ones similar to the existing with the needed side bases, width as per site dimension with skirting and tiles for landing The work to be as per the Engineer instructions				
9.2.5.1	Existing Mosaic Stair: Repair and/or replace the price including Skirting tiles & Landing <i>Rate or Lump Sum in Words:</i>	Pcs	5		
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	830		



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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Repair WCs	Item	5		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u> Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	3		
	<i>Rate or Lump Sum in Words:</i>				
5.7	<u>Wall Type Self Close Taps on Drinking Basins</u> Supply and install self close taps to be fixed in the drinking basin body as manufactured by Grohe Item No. 36-176 with all required works and drain accessories including trap and to be connected to the new water supply and drain and as instructed by the Engineer				
5.7.1	Wall Type Self Close Taps	No	5		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 4: Electrical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: Replace lamps <i>Rate or Lump Sum in Words:</i>	pc	1		



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General Summary

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ثانوية قرنايل الرسمية



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1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Replace door handles	Nº	4		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u>				
	Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows and doors				
	Install handles for aluminum door	Nº	4		
	Install glass for aluminum door	Nº	1		
	Repair aluminum door	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
9	<u>FINISHES</u>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u>				
	Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings				
	The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat.				
	Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials.				
	All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval,				
	All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	285		
	<i>Rate or Lump Sum in Words:</i>				

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Total Carried to General Summary	

Bill № 3: Mechanical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Supply & Install new toilet lids	Item	4		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u> Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	1		
	<i>Rate or Lump Sum in Words:</i>				



Collection

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Amount (US \$)

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Total Carried to General Summary
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Bill № 4: Electrical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: New lamps <i>Rate or Lump Sum in Words:</i>	Pcs	5		

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Amount (US \$)

4.1

Total Carried to General Summary

General Summary



General Summary

Description

Amount (US \$)

Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

250

متوسطة العبادية الرسمية المختلطة



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>..... 	LS	1		
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.2	<u>Rehabilitate Timber Cupboard</u> Rehabilitate timber cupboards with plastic laminate color, work to include sub framing, drawer units, shelves, fixing and fastening hardware, heavy duty ironmongery, accessories, including finish, soft close, painting and all other related auxiliaries works as required by engineer - Repair wood elements in accordance with AWI Quality Standards requirements. - Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight. - Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece. - Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal. - (No patching is allowed for existing wooden works) Paint Closet's door <i>Rate or Lump Sum in Words:</i>..... 	m ²	4		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the wood element (e.g. door or window).				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair joint.				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling. similarly, number of glass panes/quarries before removal.				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges.				
	The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Paint wooden doors	m2	80		
	Maintenance of the wooden door	№	1		
	Fix Door Frames	№	8		
	Change the door's lock	№	3		
	New handles for doors	№	4		
	<i>Rate or Lump Sum in Words:</i>				
					
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u>				
	Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows and doors				
	Aluminum Door Handles	№	2		
	<i>Rate or Lump Sum in Words:</i>				
					
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.1	<u>New Full Mass Colored Ceramic for Floors</u>				
	Ceramic tiles and tilework as specified and detailed, installed complete; Including for substrate preparation, cement: sand screeds or plaster backing coats; setting, jointing and grouting; tile trim and accessories; sealants; and all other related ancillaries as indicated or required				
9.2.1.2	Skirting same type of floors or as existing or required				
	Full Ceramic tiles replacement in the girls toilet	LS	1		
	<i>Rate or Lump Sum in Words:</i>				
					
9.2.2	<u>New Glazed Colored Ceramic for Walls</u>				
9.2.2.1	Supply and install glazed colored ceramic for walls Include Ceramic Corner (first choice)				
	Full Ceramic tiles replacement in the girls toilet	LS	1		
	<i>Rate or Lump Sum in Words:</i>				
					



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	2,150		
10	<u>SPECIALTIES</u>				
10.2	<u>Classroom Specialties</u>				
10.2.1	<u>White Teaching Boards</u>				
10.2.1.1	Supply and install White teaching boards from approved manufacturer as per specifications of Ministry of Education and Higher Education and corresponding to the site Cost to include: - (3600mm x 1200mm) final dimensions as per site limitation - Materials and labors - Felt marker pens and eraser (12 marker pens + 2 erases for each white board) - Stainless Steel screws - Remove the existing board - All needed works as per the Engineer instructions <i>Rate or Lump Sum in Words:</i>	No	6		



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Bill № 3: Mechanical Engineering Services



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

متوسطة العبادية الرسمية المختلطة 250

Bill of Quantities

Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary				
	Supply & Install new toilet lids (x2 in girls toilet 1st floor - x1 in boys toilet 1st floor - x1 on 2nd floor)	Pcs	4		
	Supply & Install Flushing system (x1 for girls & x1 for	Pcs	2		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u>				
	Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	4		
	<i>Rate or Lump Sum in Words:</i>				



Collection

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Total Carried to General Summary
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Bill № 4: Electrical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
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1 **BASIC ELECTRICAL REQUIREMENTS**

1.1 **Fixing and Repairing**

Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer.

All as per the drawings, specifications and Engineer instructions

1.1.3 Sockets and switches

Change the electricity Box Pcs 1

Rate or Lump Sum in Words:

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General Summary



General Summary

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Bill № 2: Civil and Architectural Works

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Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

254

صليما المتوسطة المختلطة الرسمية



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u> Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors Installation of glass for the bathroom metal door <i>Rate or Lump Sum in Words:</i>	№	1		

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Bill of Quantities
Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
5.2.6	Rehabilitate and paint existing steel window				
	New handles for metal windows	Nº	1		
	Repair metal window	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.2	<u>Rehabilitate Timber Cupboard</u>				
	Rehabilitate timber cupboards with plastic laminate color, work to include sub framing, drawer units, shelves, fixing and fastening hardware, heavy duty ironmongery, accessories, including finish, soft close, painting and all other related auxiliaries works as required by engineer				
	- Repair wood elements in accordance with AWI Quality Standards requirements.				
	- Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight.				
	- Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece.				
	- Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal.				
	- (No patching is allowed for existing wooden works)				
	Replace wood structure and moquette of the stage	m²	25		
	Repair wood partitions/separators	Item	1		
	Install False ceiling (~7 sqm)	m²	7		
	<i>Rate or Lump Sum in Words:</i>				
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				

Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

254 صليما المتوسطة المختلطة الرسمية

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling. similarly, number of glass panes/quarries before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Paint x5 wooden doors of rooms	m ²	30		
	Replace the handle of the door	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows				
	Replace Sliding rollers for x2 aluminum windows	Nº	2		
	Repair aluminum windows	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
9	<u>FINISHES</u>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	1,307		
	<i>Rate or Lump Sum in Words:</i>				

Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

254 صليما المتوسطة المختلطة الرسمية

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
10	<u>SPECIALTIES</u>				
10.5	<u>Internal Curtains</u>				
	Supply and install internal rolling type tissue and polyester collapsible type curtain as per specifications and at the location as shown on drawings				
	Works to include:				
	- Materials				
	- Labors				
	- Heavy Duty Accessories				
	- All needed works as per the Engineer instructions and approval				
	Replace Sliding rollers for x2 aluminum windows	pcs	2		
10.5.1	On External Opening				
	<i>Rate or Lump Sum in Words:</i>				
					



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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	new toilet flush mechanism	Item	3		
	new handeld bidet sprayer	Item	1		
	New Toilet lid	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
1.2.2	Maintenance and rehabilitation of existing HVAC & fire fighting systems, including all necessary piping, duct works, pumps and controls, fans, mechanical works inside shafts, air conditioning units, etc.				
	Replace Aspirator	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.7	<u>Wall Type Self Close Taps on Drinking Basins</u> Supply and install self close taps to be fixed in the drinking basin body as manufactured by Grohe Item No. 36-176 with all required works and drain accessories including trap and to be connected to the new water supply and drain and as instructed by the Engineer				
5.7.1	Wall Type Self Close Taps: Replacement of potable water faucets	No	3		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 4: Electrical Engineering Services



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Rehabilitation of Shelters

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Bill of Quantities

Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
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1 BASIC ELECTRICAL REQUIREMENTS

1.1 Fixing and Repairing

Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer.

All as per the drawings, specifications and Engineer instructions

1.1.2 Wires and cables: Repair and organization of electrical installations

LS 1

Rate or Lump Sum in Words:
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General Summary



General Summary

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* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

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SCHOOL NO.

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مدرسة عاليه الرسمية المختلطة الحي الغربي



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc.	LS	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u>				
	Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors				
	Replace glass panel of metal kitchen door	№	1		
	Install a new handle & lock to the window section in metal door	№	1		
	Repair Metal door	№	1		
	<i>Rate or Lump Sum in Words:</i>				
5.2.2	Rehabilitate existing steel gates : Replace 1 lock & 1 handle	№	1		
	<i>Rate or Lump Sum in Words:</i>				

Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
مدرسة عاليه الرسمية المختطة الحي الغربي 258

Bill of Quantities
Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
5.2.6	Rehabilitate and paint existing steel window : Install new window's glass	№	2		
	Insert net for window	№	2		
	<i>Rate or Lump Sum in Words:</i>				
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.2	<u>Rehabilitate Timber Cupboard</u>				
	Rehabilitate timber cupboards with plastic laminate color, work to include sub framing, drawer units, shelves, fixing and fastening hardware, heavy duty ironmongery, accessories, including finish, soft close, painting and all other related auxiliaries works as required by engineer				
	- Repair wood elements in accordance with AWI Quality Standards requirements.				
	- Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight.				
	- Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece.				
	- Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal.				
	- (No patching is allowed for existing wooden works)				
	Change & replace cabinets doors	№	18		
	<i>Rate or Lump Sum in Words:</i>				
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.1	<u>Timber Doors</u>				
	Supply and install flush timber door as per drawings with laminated plastic facing and the door should have 10cm width frame between the plywood and fill with timber beads by tongue and groove each 5cm, and the door edges should behead wood and fixed by tongue and groove frames should be as specified, with fixed glass panel vision window, and similar to existing, and to the Engineer's instructions				
	- Works included, all accessories and fittings, pre-painting and finishing paint sides of doors and box frames.				
	- All works should be done as per the Engineer instructions				
8.1.1.2	Provide new single leaf wooden door with view frame	№	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Repair wooden door	pcs	6		
	Paint wooden door	m2	80		
	Install new handles for the door	pcs	5		
	Repair Wooden door's frame	pcs	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows & doors				
	Replace Aluminum door rollers/track	№	1		
	Repair 1 metal window and its net	№	1		
	<i>Rate or Lump Sum in Words:</i>				
					
9	<u>FINISHES</u>				
9.1	<u>Cement Plaster</u>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.1.2	<u>Repair of Existing Plaster (Internal - External) (Cracks, etc.)</u>				
9.1.2.1	Rehabilitate and repair cracked and damaged plaster indoor and outdoor Work to include: - Determine the location and remove all loose items around the area - Remove the cracked plaster layer - Remove the pulled out layers - Clean the places with suitable materials - Fill all cracks after widening by (No Suggestions) or approved equal. - Remove loose and other deteriorated materials prior to the new repair. Take special care not to damage the adjacent original materials. Prepare mortar joints for installation of lateral reinforcement where it is required. Use thin steel bars to clean joints to maximum depth possible. Remove loose mortar. Mix mortar with minimal amount of water (potable) prior to use. All separation cracks between perpendicular walls shall be filled grout to reduce additional movement from wind loads and thermal expansion-contraction. - Clear debris from crack by probing, brushing, and blowing. - Force non-shrink mortar mixture into crack as deep as possible with hands, wood and metal probes. Use as dry a mix as possible. Use stone bats to fill larger crack voids. Ensure mortar is forced into smaller/deeper cracks. Mortar grout will be fluid in order to flow into crack. Either grout bags or gravity flow shall be used depending on the conditions. Fil Protect repairs from rapid drying by misting, shading, protecting from dry wind cracks in a series of applications rather than one large application. Final application shall not be flush with the surface, but shall be one half the width of the crack below the surface. Remove all tool marks with brush. - Apply the finish rough plaster layer - Install galvanized steel mesh 20 cm width at least - Apply the second smooth plaster layer Rate or Lump Sum in Words:	m2	60		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	1,100		



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Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

مدرسة عاليه الرسمية المختلطة الحي الغربي 258

Bill of Quantities

Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Repair manholes	Item	2		
	<i>Rate or Lump Sum in Words:</i>				
1.2.2	Maintenance and rehabilitation of existing HVAC & fire fighting systems, including all necessary piping, duct works, pumps and controls, fans, mechanical works inside shafts, air conditioning units, etc.				
	Install new fan/aspirateur	Item	4		
	<i>Rate or Lump Sum in Words:</i>				

Bill № 3: Mechanical Engineering Services

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Amount (US \$)

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Bill № 4: Electrical Engineering Services



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

مدرسة عاليه الرسمية المختلطة الحي الغربي 258

Bill of Quantities

Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
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1 **BASIC ELECTRICAL REQUIREMENTS**

1.1 **Fixing and Repairing**

Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer.

All as per the drawings, specifications and Engineer instructions

1.1.1 Lighting fixtures: New lamps Pcs 3

Rate or Lump Sum in Words:

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Amount (US \$)

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General Summary



General Summary

Description

Amount (US \$)

Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

263

بيصور الرسمية المتوسطة المختلطة



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General Summary

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		
2	<u>SITE PREPARATION AND DEMOLITION</u>				
2.8	<u>Rehabilitate Concrete Benches (Existing Cast in Place)</u>				
2.8.1	Rehabilitate existing damaged concrete benches as per site conditions (including all variable sizes). All works to be determined and to include necessary equipment, labor, material, accessories, paint, etc., and as per engineer's approval. Clean the rehabilitated places by removing all debris and make good all the edges and remove all broken slabs & failed slabs and remove to outside the site all the debris & refused items, cast proper concrete in places where the removal of all debris took place Work to include: - Removal and cleaning the location - Materials, fill - Labors - Make good the surfaces - Lining as per site instructions - All needed refurbishing works as per the Engineer instructions <i>Rate or Lump Sum in Words:</i>	Pcs	8		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
5	<u>METAL WORKS</u>				
5.1	Provide New Steel Work (Door & Windows)				
5.1.2	Provide new burglar proof protection <i>Rate or Lump Sum in Words:</i>	№	34		
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u> Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors				
	Replace Glass of metal door	№	3		
	Replace handles for 5 metal doors (x2 for each door)	№	10		
	Replace Locks for 5 metal doors	№	5		
	<i>Rate or Lump Sum in Words:</i>				
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.2	<u>Rehabilitate Timber Cupboard</u> Rehabilitate timber cupboards with plastic laminate color, work to include sub framing, drawer units, shelves, fixing and fastening hardware, heavy duty ironmongery, accessories, including finish, soft close, painting and all other related auxiliaries works as required by engineer - Repair wood elements in accordance with AWI Quality Standards requirements. - Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight. - Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece. - Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal. - (No patching is allowed for existing wooden works)	Item	2		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories	No	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows & Replace 2 glass <i>Rate or Lump Sum in Words:</i>	Nº	6		
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.7	<u>Clean and Rub the Existing Floor Tiles and Skirting</u> Rehabilitate any type of flooring tiles and skirting (ceramic - mosaic - etc.) Work to include: - All materials and labors - Grouting - Polish and rubbing - All needed items as per the Engineer instruction as specified				
9.2.7.3	Type 3: Mosaic <i>Rate or Lump Sum in Words:</i>	m²	15		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u>				
	Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	695		
12	<u>FURNISHINGS</u>				
12.1	<u>INSTITUTIONAL FURNITURE</u>				
12.1.6	<u>Hooks with Rails for Hats and Coats</u>				
12.1.6.1	Hooks with rails for hats and coats, rail size 120mm high x 20mm thick, softwood, treated and painted, countersunk screwed to wall & painted steel hooks every 200 mm (5No hooks per linear meter of rail). <i>Rate or Lump Sum in Words:</i>	Item	6		



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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
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1 GENERAL TECHNICAL REQUIREMENTS

1.2 Rehabilitation Works General Requirements

Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.

1.2.1 Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.

Maintenance of sanitary inspection chamber.	LS	1
Washbasin/sink maintenance	Item	1
Replace Flushing system of toilet seat	Item	1
Repair of wash basin	Item	1
Replacement of water stop valves	Item	2
Maintenance of floor drain	Item	1
New Toilet seat lids	Item	10
Maintenance of bathrooms	Item	6
Maintenance of sanitary drainage networks.	Item	2

Rate or Lump Sum in Words:
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1.2.2 Maintenance and rehabilitation of existing HVAC & fire fighting systems, including all necessary piping, duct works, pumps and controls, fans, mechanical works inside shafts, air conditioning units, etc.

Supply and installation of bathroom exhaust fan	Item	1
Repair Radiators	Item	2

Rate or Lump Sum in Words:
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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
2	<u>SANITARY, WASTE & RAIN WATER PIPE WORK INSTALLATION</u>				
2.1	<u>Drainage System</u> Supply, install and test the storm water drainage from (UPVC) pipes inside the building to outside and the pipes to be measured in Linear Meter with all related accessories, cleanout, elbows, vent hangers, and all necessary accessories as per standard installation details The school should be connected to the main public sewer network located along the road, with an approximate length of 20 meters, as the issue became apparent due to the increased pressure on the existing system during the displacement period.	LS	1		
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u> Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	6		
	Handheld bidet spray	No	1		
	<i>Rate or Lump Sum in Words:</i>				
5.7	<u>Wall Type Self Close Taps on Drinking Basins</u> Supply and install self close taps to be fixed in the drinking basin body as manufactured by Grohe Item No. 36-176 with all required works and drain accessories including trap and to be connected to the new water supply and drain and as instructed by the Engineer				
5.7.1	Wall Type Self Close Taps	No	32		
	<i>Rate or Lump Sum in Words:</i>				

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Bill № 4: Electrical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures <i>Rate or Lump Sum in Words:</i>	LS	1		
1.1.2	Wires and cables <i>Rate or Lump Sum in Words:</i>	LS	1		
1.1.3	Sockets and switches <i>Rate or Lump Sum in Words:</i>	Pcs	121		
1.1.4	Circuit breakers <i>Rate or Lump Sum in Words:</i>	LS	1		

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General Summary



General Summary

Description

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Bill № 2: Civil and Architectural Works

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Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

SCHOOL NO.

268

بشامون الرسمية المتوسطة المختلطة



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- General Summary

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <u>Rate or Lump Sum in Words:</u> 	LS	1		
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.2	<u>Rehabilitate Timber Cupboard</u> Rehabilitate timber cupboards with plastic laminate color, work to include sub framing, drawer units, shelves, fixing and fastening hardware, heavy duty ironmongery, accessories, including finish, soft close, painting and all other related auxiliaries works as required by engineer - Repair wood elements in accordance with AWI Quality Standards requirements. - Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight. - Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece. - Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal. - (No patching is allowed for existing wooden works) <u>Rate or Lump Sum in Words:</u> 	Pcs	1		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Replace Door's Handles	Nº	18		
	Install new door locks	Nº	13		
	Paint wooden door	Nº	1		
	Replace glass	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.1	<u>New Aluminum Panels (Double Glass)</u> Supply and install the fabricated aluminum panels with double glass (6 - 12 - 6 mm) (Outer Glass should be				
8.2.1.1	Provide new aluminum double glazed window & door panel <i>Rate or Lump Sum in Words:</i>	Nº	4		
9	<u>FINISHES</u>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	1,280		
10	<u>SPECIALTIES</u>				
10.5	<u>Internal Curtains</u> Supply and install internal rolling type tissue and polyester collapsible type curtain as per specifications and at the location as shown on drawings Works to include: - Materials - Labors - Heavy Duty Accessories - All needed works as per the Engineer instructions and approval				
10.5.1	On External Opening <i>Rate or Lump Sum in Words:</i>	Pcs	28		



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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Install new toilet seat lid	Item	1		
	Repair of the toilet flush mechanism, and replacement of the flush valve seal.	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
1.2.2	Maintenance and rehabilitation of existing HVAC & fire fighting systems, including all necessary piping, duct works, pumps and controls, fans, mechanical works inside shafts, air conditioning units, etc.				
	Installation of a bathroom exhaust fan.	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u>				
	Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	2		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
5.7	<u>Wall Type Self Close Taps on Drinking Basins</u> Supply and install self close taps to be fixed in the drinking basin body as manufactured by Grohe Item No. 36-176 with all required works and drain accessories including trap and to be connected to the new water supply and drain and as instructed by the Engineer				
5.7.1	Wall Type Self Close Taps <i>Rate or Lump Sum in Words:</i>	Nº	2		
5.8	<u>Kitchen Sink Accessories</u> Supply and install kitchen sink accessories such as chrome trap, angle valve, mixers as specified				
5.8.1	Kitchen Sink Accessories <i>Rate or Lump Sum in Words:</i>	Nº	1		

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Bill № 4: Electrical Engineering Services



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

268 بشامون الرسمية المتوسطة المختلطة

Bill of Quantities

Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures <i>Rate or Lump Sum in Words:</i>	LS	1		
1.1.2	Wires and cables <i>Rate or Lump Sum in Words:</i>	LS	1		
1.1.3	Sockets and switches <i>Rate or Lump Sum in Words:</i>	LS	1		
1.1.4	Circuit breakers <i>Rate or Lump Sum in Words:</i>	LS	1		

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General Summary



General Summary

<u>Description</u>	<u>Amount (US \$)</u>
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SCHOOL NO.

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مدرسة شانيه المتوسطة المختلطة الرسمية



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc.	LS	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u>				
	Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors New glass for the metal entrance door New metal lock New handles	№	1	2	8
	<i>Rate or Lump Sum in Words:</i>				
5.2.6	Rehabilitate and paint existing steel window Install new handle for the windows + 1 in a metal door Replace windows' broken glass	№	15	2	
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Replace wooden door's handle	№	2		
	Repair wooden door	№	1		
	<i>Rate or Lump Sum in Words:</i>				
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u>				
	Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows and doors				
	Replace the lock of the roof's aluminum door	№	1		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 3: Mechanical Engineering Services



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

مدرسة شاتيه المتوسطة المختلطة الرسمية 270

Bill of Quantities

Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
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1 GENERAL TECHNICAL REQUIREMENTS

1.2 Rehabilitation Works General Requirements

Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.

- 1.2.1 Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.

Manhole (Depot) Item 1

Rate or Lump Sum in Words:



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Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

مدرسة شاليه المتوسطة المختلطة الرسمية 270

Bill of Quantities

Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: New lamps <i>Rate or Lump Sum in Words:</i>	Pcs	32		



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General Summary

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Bill № 2: Civil and Architectural Works



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>..... 	LS	1		



Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the wood element (e.g. door or window).				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair joint.				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling. similarly, number of glass panes/quarries before removal.				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges.				
	The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Replace handle for toilet's door	№	4		
	Provide & Install wooden door's lock	№	1		
	<i>Rate or Lump Sum in Words:</i>				
					
					



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows				
	Provide & Install aluminum door's handle & lock	Nº	1		
	Install glass of aluminum windows	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
10	<u>SPECIALTIES</u>				
10.2	<u>Classroom Specialties</u>				
10.2.1	<u>White Teaching Boards</u>				
10.2.1.1	Supply and install White teaching boards from approved manufacturer as per specifications of Ministry of Education and Higher Education and corresponding to the site Cost to include: - (3600mm x 1200mm) final dimensions as per site limitation - Materials and labors - Felt marker pens and eraser (12 marker pens + 2 erases for each white board) - Stainless Steel screws - Remove the existing board - All needed works as per the Engineer instructions	Nº	7		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 3: Mechanical Engineering Services



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Supply & Install new toilet lids	Item	2		
	Repair toilet sink (x1 in boys WC x1 in girls WC x1 in	Item	3		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u>				
	Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	3		
	<i>Rate or Lump Sum in Words:</i>				

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Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: Install new lamps <i>Rate or Lump Sum in Words:</i>	Pcs	21		
1.1.3	Sockets and switches: Electrical outlet cover <i>Rate or Lump Sum in Words:</i>	Pcs	1		



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General Summary

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مشقيتي الرسمية المتوسطة المختلطة



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Bill № 2: Civil and Architectural Works



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc.	LS	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u> Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors	Paint metal door №	6		
	<i>Rate or Lump Sum in Words:</i>				



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.1	<u>Rehabilitate Existing Kitchen Cupboards</u> Rehabilitate existing cupboards, cabinets, drawers, counters, etc., for the existing kitchen. Works to include replacing damaged elements, accessories, material, labor, equipment, maintaining support, change of the top of counter by new resin counter as specified, etc. As per engineer's approval. - Repair wood elements in accordance with AWI Quality Standards requirements. - Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight. - Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece. - Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal.				
6.1.1.1	Kitchen Cupboards				
	Install new cabinet doors	Pcs	4		
	<u>Rate or Lump Sum in Words:</u>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the wood element (as determined).				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair surface.				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling, similarly number and label glass panes/frames before dismantling.				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges.				
	The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Paint wooden doors and frame	Nº	12		
	Door Handle	Nº	1		
	Door Lock	Nº	2		
	Repair doors + frames	Nº	12		

Rate or Lump Sum in Words:

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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u>				
	Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows and doors	Nº	13		
	Repair aluminum windows	Nº	8		
	Replacement of window's screen mesh (net)	Nº	2		
	Change glass of aluminum door & window	Nº			
	<i>Rate or Lump Sum in Words:</i>				



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9	<u>FINISHES</u>				
9.1	<u>Cement Plaster</u>				
9.1.2	<u>Repair of Existing Plaster (Internal - External) (Cracks, etc.)</u>				
9.1.2.1	Rehabilitate and repair cracked and damaged plaster indoor and outdoor Work to include: - Determine the location and remove all loose items around the area - Remove the cracked plaster layer - Remove the pulled out layers - Clean the places with suitable materials - Fill all cracks after widening by (No Suggestions) or approved equal. - Remove loose and other deteriorated materials prior to the new repair. Take special care not to damage the adjacent original materials. Prepare mortar joints for installation of lateral reinforcement where it is required. Use thin steel bars to clean joints to maximum depth possible. Remove loose mortar. Mix mortar with minimal amount of water (potable) prior to use. All separation cracks between perpendicular walls shall be filled grout to reduce additional movement from wind loads and thermal expansion-contraction. - Clear debris from crack by probing, brushing, and blowing. - Force non-shrink mortar mixture into crack as deep as possible with hands, wood and metal probes. Use as dry a mix as possible. Use stone bats to fill larger crack voids. Ensure mortar is forced into smaller/deeper cracks. Mortar grout will be fluid in order to flow into crack. Either grout bags or gravity flow shall be used depending on the conditions. Fil Protect repairs from rapid drying by misting, shading, protecting from dry wind cracks in a series of applications rather than one large application. Final application shall not be flush with the surface, but shall be one half the width of the crack below the surface. Remove all tool marks with brush. - Apply the finish rough plaster layer - Install galvanized steel mesh 20 cm width at least - Apply the second smooth plaster layer Repair wall plaster around door's frame <i>Rate or Lump Sum in Words:</i> 	No	2		



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.2	<u>Tiling Works</u>				
9.2.2	<u>New Glazed Colored Ceramic for Walls</u>				
9.2.2.1	Supply and install glazed colored ceramic for walls Include Ceramic Corner (first choice)				
	Installing tiles around the washbasin.	m2	1		
	Tiling the bathroom's walls	m2	25		
	<i>Rate or Lump Sum in Words:</i>				
					
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u>				
	Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings				
	The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat.				
	Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials.				
	All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval,				
	All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	1,870		
	<i>Rate or Lump Sum in Words:</i>				
					



Collection

Page №

Amount (US \$)

2.1	
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2.6	

Total Carried to General Summary	
	

Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	New complete set of toilet seat	Item	1		
	Toilet Seat Lid	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u>				
	Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	1		
	<i>Rate or Lump Sum in Words:</i>				
5.7	<u>Wall Type Self Close Taps on Drinking Basins</u>				
	Supply and install self close taps to be fixed in the drinking basin body as manufactured by Grohe Item No. 36-176 with all required works and drain accessories including trap and to be connected to the new water supply and drain and as instructed by the Engineer				
5.7.1	Wall Type Self Close Taps	No	2		
	<i>Rate or Lump Sum in Words:</i>				



Collection

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Amount (US \$)

3.1

Total Carried to General Summary
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Bill № 4: Electrical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: New lamp <i>Rate or Lump Sum in Words:</i>	Pcs	1		



Collection

Page №

Amount (US \$)

4.1
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Total Carried to General Summary
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General Summary



General Summary

Description

Amount (US \$)

Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

307

مدرسة المربي رؤوف أبي غانم المتوسطة المختلطة الرسمية



Table of Contents

Description

- Bill № 2: Civil and Architectural Works
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- Bill № 4: Electrical Engineering Services
- General Summary

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u> Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors	Paint metal door	№	2	
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Repair wooden doors	Nº	7		
	Repair wooden frames	Nº	16		
	Paint of doors	m2	135		
	Door handles	Nº	28		
	Door lock	Nº	15		
	<i>Rate or Lump Sum in Words:</i>				
					

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows <i>Rate or Lump Sum in Words:</i>	Nº	8		
9	<u>FINISHES</u>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m²	1,850		



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

مدرسة المربي رؤوف أبي غانم المتوسطة المختلطة الرسمية 307

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
10	<u>SPECIALTIES</u>				
10.2	Classroom Specialties				
10.2.2	<u>Educational Panels Inside Classrooms</u>				
10.2.2.1	Supply and install educational panels inside the KG classrooms and KG corridors as instructed by the Engineer The educational panels should be translucent anti bacterial fire rated PVC with a visual printed at the back Work to include: - Materials and labors - Adhesive materials - All needed items and as instructed by the Engineer	Display board №	8		
	<i>Rate or Lump Sum in Words:</i>				

Collection

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Bill № 3: Mechanical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
					
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary				
	Supply & Install Toilet Lids	Pcs	10		
	New flushing systems	Pcs	10		
	General repair plumbing	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
					
5	<u>SANITARY FIXTURES</u>				
5.8	<u>Kitchen Sink Accessories</u>				
	Supply and install kitchen sink accessories such as chrome trap, angle valve, mixers as specified				
5.8.1	Kitchen Sink Accessories Including faucets	No	6		
	<i>Rate or Lump Sum in Words:</i>				
					



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Amount (US \$)

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Bill № 4: Electrical Engineering Services



Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
مدرسة المربي رؤوف أبي غانم المتوسطة المختلطة الرسمية 307

Bill of Quantities
Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: New lamps	Pcs	8		
	<i>Rate or Lump Sum in Words:</i>				
1.1.3	Sockets and switches				
	Electrical boxes cover	Pcs	5		
	<i>Rate or Lump Sum in Words:</i>				



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Amount (US \$)

4.1
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General Summary



General Summary

Description

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Bill № 2: Civil and Architectural Works

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Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

330

بريح الرسمية المتوسطة المختلطة



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u> Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.6	Rehabilitate and paint existing steel window Install new window glasses <i>Rate or Lump Sum in Words:</i>	№	3		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the wood element (as shown in drawings).				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on it.				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling similarly number of door panels/windows before.				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges.				
	The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Paint wooden doors & frame	Nº	16		
	New door handles	Nº	10		
	New door locks	Nº	5		

Rate or Lump Sum in Words:
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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9	<u>FINISHES</u>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	1,250		
10	<u>SPECIALTIES</u>				
10.2	<u>Classroom Specialties</u>				
10.2.1	<u>White Teaching Boards</u>				
10.2.1.1	Supply and install White teaching boards from approved manufacturer as per specifications of Ministry of Education and Higher Education and corresponding to the site Cost to include: - (3600mm x 1200mm) final dimensions as per site limitation - Materials and labors - Felt marker pens and eraser (12 marker pens + 2 erases for each white board) - Stainless Steel screws - Remove the existing board - All needed works as per the Engineer instructions <i>Rate or Lump Sum in Words:</i>	No	9		

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Total Carried to General Summary	
	

Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary				
	Repair plumbing	Item	4		
	Supply & Install new toilet lids	Item	6		
	Supply & Install new flushing systems	Item	6		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u>				
	Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	No	2		
	<i>Rate or Lump Sum in Words:</i>				

Collection

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Amount (US \$)

3.1

Total Carried to General Summary
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General Summary



General Summary

Description

Amount (US \$)

Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

SCHOOL NO.

1059

عين الدلب المتوسطة الرسمية



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Bill № 2: Civil and Architectural Works



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

عين الدلب المتوسطة الرسمية 1059

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
4	<u>MASONRY</u>				
4.2	<u>Rehabilitate and Clean masonry walls showing deep crack</u> The repair method requires the replacement of some stone masonry that has been damaged by the crack. It will include the use of horizontal reinforcement. Remove cracked stones in a “toothed” pattern to the extent that a sound repair is possible. Clean the crack if it continues to extend into the mass masonry and grout with non shrink mortar. Key new stone in stone masonry perpendicular to the wall surface in addition to the “toothed” and stepped pattern parallel to the wall surface. With larger more extensive cracks remove additional stones in a stepped pattern on both sides and the top of crack and restore by installing new stones. With smaller repairs lesser amounts of stones will have to be removed. Place horizontal reinforcement every 5th course. Mechanical ties to secure geogrid may be required. The horizontal reinforcement shall bridge over the crack and extend the length of new stone masonry. Replicate the coursing pattern of the existing exposed surface. Place new stones that are not exposed in an alternating stretcher-header bonding pattern to wall surface or top of wall. Construct the new stone masonry in complete horizontal courses where possible. Do not construct more than 5 courses before allowing masonry to dry. Lay subsequent stone courses on fresh wet mortar. Apply mortar at head joints as well as bed joints and finish one-half the width of the mortar joint below the surface of the stones.				
4.2.3	<u>Rehabilitate External Retaining Natural Stone Walls (Random Ruble)</u> Rehabilitate works on external natural stone walls (random rubble). works should be by replacing the damaged stone and not by filling with mortar. Works to include: - Determine the location of damaged stone walls and location of dampness - Treat the dampness and the causes - Repair the stone by renewing the damaged and replace it with new ones same stone - Clear the place and infill in between to coarse - All works as instructed by the Engineer Build a new block wall & plaster to cover the new WCs installed for the displaced	m ²	30		
	<u>Rate or Lump Sum in Words:</u>				



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
6	<u>WOOD AND PLASTICS</u>				
6.1	<u>Joinery Works</u>				
6.1.2	<u>Rehabilitate Timber Cupboard</u> Rehabilitate timber cupboards with plastic laminate color, work to include sub framing, drawer units, shelves, fixing and fastening hardware, heavy duty ironmongery, accessories, including finish, soft close, painting and all other related auxiliaries works as required by engineer - Repair wood elements in accordance with AWI Quality Standards requirements. - Repair framing and sash members with mortise and Tenon joints. Ensure joints and connections are flush, hairline, and weather-tight. - Scarf joints permitted when wood matches in color and grain texture. Form sills and stools in one piece. - Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet allowing installation and dynamic movement of perimeter seal. - (No patching is allowed for existing wooden works)				
	Install new wooden stage at roof	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
7	<u>THERMAL AND MOISTURE PROTECTION</u>				
7.3	<u>Insulate the New and Old Basements Walls</u>				
7.3.1	Provide the necessary damp proof coarse protection for the underground walls (Basements, etc.) work to include the following: - Applying one Bituminous layer of tack coat directly over concrete surface without any intermediate layer like plaster or similar. - Applying one layer of SBS sheet 4mm thick with cantonal protection - Construct 10cm hollow concrete block work wall - The cost of labor - In addition to above works to include also required excavation and backfilling with proper materials - All needed works for a proper insulation as per instructions				
	Treat water seepage from underground of playground	LS	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Install new doors handles	Nº	1		
	<u>Rate or Lump Sum in Words:</u>				



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

عين الدلب المتوسطة الرسمية 1059

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.4	<u>Repair existing broken floor tiles and skirting (all types) and reinstall by new, similar to existing for all rooms and corridors</u>				
8.2.4.1	Rehabilitate and repair all damaged and broken tiles, and skirting for any type (marble - ceramic - mosaic - Cement). Remove broken or damaged pieces to be replaced without affecting the adjacent undamaged areas Work to include: - Remove all debris as specified - All materials and labors - Difference tiles (shapes thickness, dimension, pattern) as needed. - Cutting and repair - Grouting - Polish and rubbing - All needed items as per Engineer comments and complete to Engineer approval.	m2	20		
	<i>Rate or Lump Sum in Words:</i>				
9.2.5	<u>Rehabilitate Existing Stair Treads and Riser</u> Remove the broken treads and risers, install and supply new ones similar to the existing with the needed side bases, width as per site dimension with skirting and tiles for landing The work to be as per the Engineer instructions				
9.2.5.1	Existing Mosaic Stair the price including Skirting tiles & Landing	Item	6		
	<i>Rate or Lump Sum in Words:</i>				
9.4	<u>Gypsum Works</u>				
9.4.2	<u>Rehabilitate Existing Gypsum Suspended Ceiling (Tiles, Panels)</u>				
9.4.2.1	Rehabilitate existing gypsum board suspended ceiling in the case of damage or during construction. Works to include material, labor, equipment, etc. and to the engineer's approval	m ²	1		
	<i>Rate or Lump Sum in Words:</i>				



Lebanese Emergency Assistant Project (LEAP)

Rehabilitation of Shelters

عين الدلب المتوسطة الرسمية 1059

Bill of Quantities

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u>				
	Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings				
	The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat.				
	Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials.				
	All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval,				
	All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	1,470		
	<i>Rate or Lump Sum in Words:</i>				
10	<u>SPECIALTIES</u>				
10.5	<u>Internal Curtains</u>				
	Supply and install internal rolling type tissue and polyester collapsible type curtain as per specifications and at the location as shown on drawings				
	Works to include:				
	- Materials				
	- Labors				
	- Heavy Duty Accessories				
	- All needed works as per the Engineer instructions and approval				
10.5.1	On External Opening	Pcs	1		
	Install new Plastic roller shutters	Pcs	20		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 3: Mechanical Engineering Services



Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
عين الدلب المتوسطة الرسمية 1059

Bill of Quantities
Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Install new flushing sytem for the toilet seat	Item	2		
	Install complete toilet seat set	Item	2		
	<i>Rate or Lump Sum in Words:</i>				
1.2.2	Maintenance and rehabilitation of existing HVAC & fire fighting systems, including all necessary piping, duct works, pumps and controls, fans, mechanical works inside shafts, air conditioning units, etc.				
	Repair Air Conditioner unit	Item	2		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u>				
	Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps				
	Replace handheld bidet spray	No	3		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 4: Electrical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.3	Sockets and switches: New sockets <i>Rate or Lump Sum in Words:</i>	Pcs	2		
2	<u>PANELBOARDS</u>				
2.1	Supply, install or rehabilitate the existing panel board if possible including enclosures, busbars, protective devices, MCB & MCCB breakers according to IEC-60947-2 as per the site conditions and Engineer instructions.				
2.1.1	MDB <i>Rate or Lump Sum in Words:</i>	No	1		



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SCHOOL NO.

1195

ثانوية مرجعيون الرسمية



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Bill № 2: Civil and Architectural Works

General Summary

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i> 	LS	1		
2	<u>SITE PREPARATION AND DEMOLITION</u>				
2.2	<u>Rehabilitate Existing Curbstone</u>				
2.2.1	Rehabilitate existing Curbstone as per specifications and works include: - Remove all loose parts or damaged parts and re-install new ones as existing, without affecting the adjacent undamaged areas - Casting concrete behind curbstone - Handicapped Concrete Units - materials - All works needed as per specifications and the Engineer instructions Repair Borders around trees <i>Rate or Lump Sum in Words:</i> 	m	32		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u> Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors				
	Glass in metal door	No	2		
	<i>Rate or Lump Sum in Words:</i>				
7	<u>THERMAL AND MOISTURE PROTECTION</u>				
7.1	<u>Roof Waterproofing</u>				
7.1.1	Works should be applied and done by experts with previous experience in similar works. Works to include: - DEEP cleaning of all surfaces and carting away of dust & debris - Concrete pad for water tanks as indicated - Sand cement screed layer to Provide proper slopes minimum 0.75% - Expansion joint sealant to be done respecting back rod, unbonding tape, adequate thickness of sealant, type & finish of sealant (fire rated) & design drawings especially on roof & planters. - Provide tackle coat (Proper) - Provide 4mm thick, SBS layer from an approved manufacturer - Provide protection for all pipe works and drains - Provide heat insulation layers of 35 KG/m ³ where required - Provide Geotextile layers - Provide all aluminum flashing with mastic - Provide finishing material as required - All as specified and approved shop drawings				
	Expansion Joint waterproofing	m	20		
	Treat & Repair water leakage problems	m ²	80		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.2	<u>Aluminum Doors and Windows</u> Fabricate, supply and install aluminum works as manufactured by SIDEM 2000 first choice with all necessary accessories as per the drawings and the Engineer instructions, cost to include all doors and windows: - Reveals hard stone 3cm thick, all around for external - Apply EPDM around door and windows where necessary - Single glass 6 mm - Double glass 6-12-6 mm (Outer Glass should be Tempered) - Hinges and locks - Joint Filler - Mosquito Screen - Mesh - All items needed as per the Engineer instructions - All as specified and base on an approved shop drawings after exact dimensions				
8.2.1	<u>New Aluminum Panels (Double Glass)</u> Supply and install the fabricated aluminum panels with double glass (6 - 12 - 6 mm) (Outer Glass should be				
8.2.1.3	Replace existing windows by new double glazed aluminum <i>Rate or Lump Sum in Words:</i>	Nº	2		
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows				
	Handles for aluminum door	Nº	1		
	Lock for aluminum door	Nº	1		
	Dislocated aluminum windows	Nº	37		
	Glass for Aluminum panels	Nº	37		
	Sealant for perimeter of Aluminum window	m	138		
	Rubber strips and fine tune for Aluminum	LS	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9	<u>FINISHES</u>				
9.1	<u>Cement Plaster</u>				
9.1.2	<u>Repair of Existing Plaster (Internal - External) (Cracks, etc.)</u>				
9.1.2.1	Rehabilitate and repair cracked and damaged plaster indoor and outdoor Work to include: - Determine the location and remove all loose items around the area - Remove the cracked plaster layer - Remove the pulled out layers - Clean the places with suitable materials - Fill all cracks after widening by (No Suggestions) or approved equal. - Remove loose and other deteriorated materials prior to the new repair. Take special care not to damage the adjacent original materials. Prepare mortar joints for installation of lateral reinforcement where it is required. Use thin steel bars to clean joints to maximum depth possible. Remove loose mortar. Mix mortar with minimal amount of water (potable) prior to use. All separation cracks between perpendicular walls shall be filled grout to reduce additional movement from wind loads and thermal expansion-contraction. - Clear debris from crack by probing, brushing, and blowing. - Force non-shrink mortar mixture into crack as deep as possible with hands, wood and metal probes. Use as dry a mix as possible. Use stone bats to fill larger crack voids. Ensure mortar is forced into smaller/deeper cracks. Mortar grout will be fluid in order to flow into crack. Either grout bags or gravity flow shall be used depending on the conditions. Fil Protect repairs from rapid drying by misting, shading, protecting from dry wind cracks in a series of applications rather than one large application. Final application shall not be flush with the surface, but shall be one half the width of the crack below the surface. Remove all tool marks with brush. - Apply the finish rough plaster layer - Install galvanized steel mesh 20 cm width at least - Apply the second smooth plaster layer				
	Structural Repair	m	30		
	Blowed filler above aluminum window	m	4		
	<u>Rate or Lump Sum in Words:</u>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.2	<u>Tiling Works</u>				
9.2.5	<u>Rehabilitate Existing Stair Treads and Riser</u> Remove the broken treads and risers, install and supply new ones similar to the existing with the needed side bases, width as per site dimension with skirting and tiles for landing The work to be as per the Engineer instructions				
9.2.5.1	Existing Mosaic Stair the price including Skirting tiles & Landing <i>Rate or Lump Sum in Words:</i>	Pcs	3		
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	89		
10	<u>SPECIALTIES</u>				
10.5	<u>Internal Curtains</u> Supply and install internal rolling type tissue and polyester collapsible type curtain as per specifications and at the location as shown on drawings Works to include: - Materials - Labors - Heavy Duty Accessories - All needed works as per the Engineer instructions and approval				
10.5.1	On External Opening <i>Rate or Lump Sum in Words:</i>	Pcs	4		

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General Summary

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SCHOOL NO.

1225

المساكن الشعبية الرسمية



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Bill № 2: Civil and Architectural Works



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u>				
	Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors				
	Repair metal door	Nº	2		
	Replace glass panel of metal door	Nº	1		
	lock of metal door	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
7	<u>THERMAL AND MOISTURE PROTECTION</u>				
7.1	<u>Roof Waterproofing</u>				
7.1.1	Works should be applied and done by experts with previous experience in similar works. Works to include: - DEEP cleaning of all surfaces and carting away of dust & debris - Concrete pad for water tanks as indicated - Sand cement screed layer to Provide proper slopes minimum 0.75% - Expansion joint sealant to be done respecting back rod, unbonding tape, adequate thickness of sealant, type & finish of sealant (fire rated) & design drawings especially on roof & planters. - Provide tackle coat (Proper) - Provide 4mm thick, SBS layer from an approved manufacturer - Provide protection for all pipe works and drains - Provide heat insulation layers of 35 KG/m ³ where required - Provide Geotextile layers - Provide all aluminum flashing with mastic - Provide finishing material as required - All as specified and approved shop drawings				
	Treat water leakage from roof	LS	1		
	Wall waterproofing works	m ²	45		
	<i>Rate or Lump Sum in Words:</i>				
7.2	<u>Polyurethane Waterproofing for Wet Areas</u>				
7.2.1	Polyurethane painting waterproofing (PU) including for all preparation works and related ancillaries. - DEEP cleaning of all surfaces and carting away of dust & debris - Apply Base coat - Apply two layers of PU paint include 20cm vertical high - The work should be executed by an expert - All needed works as per the Engineer instructions				
	Repair kitchen waterproofing issue	LS	1		
	Repair waterproofing failure caused by the upper-floor toilets	LS	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.1	<u>Timber Doors</u>				
	Supply and install flush timber door as per drawings with laminated plastic facing and the door should have 10cm width frame between the plywood and fill with timber beads by tongue and groove each 5cm, and the door edges should behead wood and fixed by tongue and groove frames should be as specified, with fixed glass panel vision window, and similar to existing, and to the Engineer's instructions				
	- Works included, all accessories and fittings, pre-painting and finishing paint sides of doors and box frames.				
	- All works should be done as per the Engineer instructions				
8.1.1.2	Provide new single leaf wooden door with view frame	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the wood element (e.g. door or window).				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair joint.				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling. similarly, number of glass panes/quarries before removal.				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges.				
	The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Door Handles	Nº	24		
	Replace locks	Nº	34		
	Replace glass panel in wooden door	Nº	3		
	Repair wooden door	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
8.2	<u>Aluminum Doors and Windows</u>				
8.2.1	<u>New Aluminum Panels (Double Glass)</u>				
	Supply and install the fabricated aluminum panels with double glass (6 - 12 - 6 mm) (Outer Glass should be Tempered)				
8.2.1.3	Replace existing windows by new double glazed aluminum	Nº	4		
	<i>Rate or Lump Sum in Words:</i>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u>				
	Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows				
	Replace Glass panels in Aluminum	Nº	42		
	Repair aluminum windows	Nº	32		
	Treat water leakage coming from aluminum windows	LS	1		
	<i>Rate or Lump Sum in Words:</i>				
8.2.4	<u>Colored Powder Coated Aluminum Louver</u>				
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.1	<u>New Full Mass Colored Ceramic for Floors</u>				
	Ceramic tiles and tilework as specified and detailed, installed complete; Including for substrate preparation, cement: sand screeds or plaster backing coats; setting, jointing and grouting; tile trim and accessories; sealants; and all other related ancillaries as indicated or required				
9.2.1.1	Remove existing, Supply and install anti skid colored full mass ceramic tiles for classroom (first choice) for all floor toilets, kitchen and laboratory (existing and new)	m²	35		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.2.4	<u>Repair existing broken floor tiles and skirting (all types) and reinstall by new, similar to existing for all rooms and corridors</u>				
8.2.4.1	Rehabilitate and repair all damaged and broken tiles, and skirting for any type (marble - ceramic - mosaic - Cement). Remove broken or damaged pieces to be replaced without affecting the adjacent undamaged areas Work to include: - Remove all debris as specified - All materials and labors - Difference tiles (shapes thickness, dimension, pattern) as needed. - Cutting and repair - Grouting - Polish and rubbing - All needed items as per Engineer comments and complete to Engineer approval.	m2	6		
	<i>Rate or Lump Sum in Words:</i>				
9.2.5	<u>Rehabilitate Existing Stair Treads and Riser</u> Remove the broken treads and risers, install and supply new ones similar to the existing with the needed side bases, width as per site dimension with skirting and tiles for landing The work to be as per the Engineer instructions				
9.2.5.1	Existing Mosaic Stair the price including Skirting tiles & Landing	Steps	8		
	<i>Rate or Lump Sum in Words:</i>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 1 layers of putty then after smoothening, then 2 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	1,950		
	<i>Rate or Lump Sum in Words:</i>				



Lebanese Emergency Assistant Project (LEAP)
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Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
10	<u>SPECIALTIES</u>				
10.5	<u>Internal Curtains</u> Supply and install internal rolling type tissue and polyester collapsible type curtain as per specifications and at the location as shown on drawings Works to include: - Materials - Labors - Heavy Duty Accessories - All needed works as per the Engineer instructions and approval				
10.5.1	On External Opening <i>Rate or Lump Sum in Words:</i>	Pcs	4		

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Bill № 3: Mechanical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Install new flushing system	Item	19		
	Install new toilet seat lids	Item	11		
	General sanitary maintenance	LS	1		
	<i>Rate or Lump Sum in Words:</i>				

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Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: New lamps <i>Rate or Lump Sum in Words:</i>	Pcs	8		
8	<u>SOLAR SYSTEM</u>				
8.1	Supply, install, connect and test the solar lighting system for all Electrical Loads (excluding Lifts, Pumps and AC Units) in perfect operating conditions, including but not - Photovoltaic multi-crystalline solar panels as shown on the drawings. - Hybrid Inverter - All cables, wires, conduits and all necessary accessories - Aluminum PV mountings - The Contractor shall ensure complete solar system which should function as the main Power Supply - The Contractor should submit detailed shop drawings and materials for approval. - For all blocks of the schools - Lithium Batteries for (Off-Grid Solar Types) - All necessary elevated structures on roof and other areas which are needed to install the required solar panel as mentioned on drawings (Sheds, Parking, etc.) areas New batteries for Solar panel	LS	1		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

1452

ثانوية دامور الرسمية



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Description

Bill № 2: Civil and Architectural Works
Bill № 3: Mechanical Engineering Services
Bill № 4: Electrical Engineering Services
General Summary

Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc.	LS	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u>				
	Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors				
	Repair lock	№	8		
	Metal door handles	№	2		
	Paint Metal door	№	4		
	<i>Rate or Lump Sum in Words:</i>				
5.2.6	Rehabilitate and paint existing steel window				
	Change glass of window	№	1		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u>				
	As stated in the Preambles of Item 8.1				
	In addition, rehabilitate the existing timber doors:				
	The minimum amount of existing timber should be removed to allow an effective repair to be formed.				
	Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed.				
	Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible.				
	For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair.				
	Always work new material to the line of the existing and avoid unnecessary trimming of original timber.				
	Repairs should follow any existing deformations in the line of the				
	Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on				
	The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber.				
	Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before				
	If applicable carefully soften putty or remove wood trim and then remove glass.				
	Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside.				
	Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully.				
	Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities.				
	Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				

Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
تأهيل دأمر الرسميه 1452

Bill of Quantities
Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Repair wooden door	Nº	2		
	Paint toilet doors x4	Nº	4		
	Paint wooden doors frames	Nº	4		
	Door Handles	Nº	2		
	Door Lock	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u>				
	Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows				
	Repair windows rail	Nº	1		
	Repair Aluminum windows	Nº	6		
	Change glass of window	Nº	1		
	Repair / Replace window handle	Nº	1		
	<i>Rate or Lump Sum in Words:</i>				
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.5	<u>Rehabilitate Existing Stair Treads and Riser</u>				
	Remove the broken treads and risers, install and supply new ones similar to the existing with the needed side bases, width as per site dimension with skirting and tiles for landing The work to be as per the Engineer instructions				
9.2.5.1	Existing Mosaic Stair the price including Skirting tiles & Landing				
	Repair 3 steps	m	5		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u>				
	Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	1,320		
10	<u>SPECIALTIES</u>				
10.2	<u>Classroom Specialties</u>				
10.2.1	<u>White Teaching Boards</u>				
10.2.1.1	Supply and install White teaching boards from approved manufacturer as per specifications of Ministry of Education and Higher Education and corresponding to the site Cost to include: - (3600mm x 1200mm) final dimensions as per site limitation - Materials and labors - Felt marker pens and eraser (12 marker pens + 2 erases for each white board) - Stainless Steel screws - Remove the existing board - All needed works as per the Engineer instructions <i>Rate or Lump Sum in Words:</i>	Nº	4		



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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Repair Flushing system	Item	3		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.3	Sockets and switches	Electrical Box	Pcs	14	
	<i>Rate or Lump Sum in Words:</i>				



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General Summary



General Summary

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Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

Bill № 4: Electrical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

1453

ثانوية بتلون الرسمية



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Bill № 2: Civil and Architectural Works



Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
1453 ثانوية بتلون الرسمية

Bill of Quantities
Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>..... 	LS	1		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the wood element (e.g. door or window). Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on the repair joint. The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before dismantling. similarly, number of glass panes/quarries before removal. If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories - Replace Handles <u>Rate or Lump Sum in Words:</u>	Nº	2		



Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
1453 ثانوية بتلون الرسمية

Bill of Quantities
Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows <i>Rate or Lump Sum in Words:</i>	Nº	2		

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Bill № 3: Mechanical Engineering Services



Lebanese Emergency Assistant Project (LEAP)
Rehabilitation of Shelters
ثاقوية بتلون الرسمية 1453

Bill of Quantities
Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u>				
	Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Supply & Install new flushing systems	Item	2		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.8	<u>Kitchen Sink Accessories</u>				
	Supply and install kitchen sink accessories such as chrome trap, angle valve, mixers as specified				
5.8.1	Kitchen Sink Accessories	No	1		
	<i>Rate or Lump Sum in Words:</i>				



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Bill № 4: Electrical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>BASIC ELECTRICAL REQUIREMENTS</u>				
1.1	<u>Fixing and Repairing</u>				
	Check & repair all the existing cables, wires, socket outlets, lighting fixtures, lighting switches, electric fans, and protect all exposed wiring as per the site conditions, and to the satisfaction of the Engineer. All as per the drawings, specifications and Engineer instructions				
1.1.1	Lighting fixtures: New lamps <i>Rate or Lump Sum in Words:</i>	Pcs	30		



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General Summary



General Summary

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* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

1487

ثانوية شحيم الرسمية فرع الزعرورية



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Bill № 2: Civil and Architectural Works

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following:				
	- Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc.				
		LS	1		
	<u>Rate or Lump Sum in Words:</u>				
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u>				
	Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction				
	Work to include:				
	- Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors				
	Repair entrance metal door	Nº	1		
	Provide new handles x2	Nº	1		
	lock x1	Nº	1		
	<u>Rate or Lump Sum in Words:</u>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.1	<u>Wooden Doors and Windows</u>				
8.1.3	<u>Rehabilitate the Existing Timber Doors</u> As stated in the Preambles of Item 8.1 In addition, rehabilitate the existing timber doors: The minimum amount of existing timber should be removed to allow an effective repair to be formed. Cut out deteriorated area of timber in sloping splice to give optimum area of surface to be glued & fixed. Well-seasoned timber to be used in forming a repair with the line and density of grain (number of growth rings) of new timber matching the existing as closely as possible. For all joinery work, timber with shakes, fissures, warping, heartwood, sapwood or numerous/large knots should be avoided for use in repair. Always work new material to the line of the existing and avoid unnecessary trimming of original timber. Repairs should follow any existing deformations in the line of the Avoid mixing timber species between new and existing in a repair as joint between the two is likely to fail from different rates of expansion and contraction during dry & damp conditions. Where possible, spliced repairs to be designed to ensure moisture is towards the outer face of timber and that moisture does not lay on The length of the splice is governed by section of timber and the nature of component being repaired and it should be designed to ensure an effective bond between new and existing sections of timber. Where wood element are to be dismantled as part of the repair process, always mark and record the constituent parts before If applicable carefully soften putty or remove wood trim and then remove glass. Use glue, to connect a new outer section of bottom rail to the existing sound timber. Drill and insert new wooden pins or fix using brass screws from inside. Casements or sashes are often in sound condition but the joints have become loose due to the break down of glue and loose wedges. The wedges will often be easily removable and will probably be unsuitable for re-use. It may be for the joints to be pulled together successfully. Attach door frame and shims to perimeter opening to accommodate construction tolerances & all irregularities. Align door plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work. Install operating hardware.				
8.1.3.1.1	Rehabilitate and paint existing single leaf timber doors with related accessories				
	Wooden door Lock	Nº	10		
	Handles for wooden doors	Nº	17		
	Repair glass of wooden door	Nº	1		
	Repair wooden door	Nº	3		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8.2	<u>Aluminum Doors and Windows</u>				
8.2.3	<u>Rehabilitation Existing Glazed Aluminum Panels (s)</u> Replacing Broken Glass. Fixing Hardware Issues: Check the functionality of latches, hinges, and other hardware. If any parts are broken, replace them with new ones to ensure the window operates smoothly. After repairs, apply a high-quality sealant around the edges to prevent moisture intrusion. If the paint is peeling or faded, consider repainting the frame with a metal paint formulated for aluminum to enhance durability and appearance.				
8.2.3.1	Rehabilitate existing windows and doors				
	Repair aluminum windows	Nº	5		
	Aluminum Handles	Nº	4		
	Repair aluminum door	Nº	2		
	<i>Rate or Lump Sum in Words:</i>				
9	<u>FINISHES</u>				
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings	m ²	340		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
10	<u>SPECIALTIES</u>				
10.2	Classroom Specialties				
10.2.1	<u>White Teaching Boards</u>				
10.2.1.1	Supply and install White teaching boards from approved manufacturer as per specifications of Ministry of Education and Higher Education and corresponding to the site Cost to include: - (3600mm x 1200mm) final dimensions as per site limitation - Materials and labors - Felt marker pens and eraser (12 marker pens + 2 erases for each white board) - Stainless Steel screws - Remove the existing board - All needed works as per the Engineer instructions	No	4		
	<i>Rate or Lump Sum in Words:</i>				
					



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Bill № 3: Mechanical Engineering Services

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Plumbing maintenance for washbasins	LS	1		
	New Flusing system	Item	9		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.6	<u>Self Close Taps on Kids & Students Lavatories</u> Supply and install self close taps to be fixed in the lavatory body as manufactured by Grohe Item No. 36-173 with all required works and drain accessories including trap, to be connected to the new water supply and drain and as instructed by the Engineer				
5.6.1	Self Close Taps	№	7		
	Handheld bidet sprayer	№	2		
	<i>Rate or Lump Sum in Words:</i>				



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General Summary



General Summary

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Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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SCHOOL NO.

1599

ثانوية صوفر الرسمية المختلطة



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Bill № 2: Civil and Architectural Works

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1	<u>SITE PREPARATION AND DEMOLITION</u>				
1.1	<u>Demolishing and Removal of Debris</u>				
1.1.1	The works include all types of demolition and the removal of debris and damaged elements such but not limited to, the following: - Existing plastering and concrete items such as foundations, columns, slabs, etc. - Damaged Tiling (floors and walls) - Toilet fixtures and pipes installation of all sizes - Counter tops, bases and sinks - Water tanks of different types - Hollow concrete block walls or concrete walls of all sizes - Demolition of the existing ramps / Stairs and the execution of the given plans and specifications - Including the necessary equipment for the removal of debris and all resulting materials - etc. <i>Rate or Lump Sum in Words:</i>	LS	1		
5	<u>METAL WORKS</u>				
5.2	<u>Rehabilitate and Maintain the Existing Steel Work (Burglar Proof Protection + Opening)</u> Rehabilitate the existing steel windows or doors as per specifications and drawings and the Engineer instruction Work to include: - Remove all damaged members and replace by new ones - Rub completely to secure all parts and use putty to make faces smooth - Apply two layers of anti rust paint - Apply putty - Apply three layers of epoxy external paint - All needed items as per the Engineer instructions				
5.2.1	Rehabilitate existing steel doors Replace plastic cover for metal entrance door <i>Rate or Lump Sum in Words:</i>	Nº	4		

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
8	<u>DOOR AND WINDOWS</u>				
8.2	<u>Aluminum Doors and Windows</u>				
8.2.2	<u>New Aluminum Internal Door</u>				
	Supply and install aluminum door with frame and related strengthening stud, Works to include: Materials, and accessories - Labors - All needed items as per the engineer instructions. - Repair all around the opening				
8.2.2.1	Provide new aluminum partition door as indicated. Insert new Aluminum profil partition for flooring	№	1		
	<i>Rate or Lump Sum in Words:</i>				
8.2.4	<u>Colored Powder Coated Aluminum Louver</u>				
9	<u>FINISHES</u>				
9.2	<u>Tiling Works</u>				
9.2.4	<u>Repair existing broken floor tiles and skirting (all types) and reinstall by new, similar to existing for all rooms and corridors</u>				
8.2.4.1	Rehabilitate and repair all damaged and broken tiles, and skirting for any type (marble - ceramic - mosaic - Cement). Remove broken or damaged pieces to be replaced without affecting the adjacent undamaged areas Work to include: - Remove all debris as specified - All materials and labors - Difference tiles (shapes thickness, dimension, pattern) as needed. - Cutting and repair - Grouting - Polish and rubbing - All needed items as per Engineer comments and complete to Engineer approval.				
	Insert new Playground tiles	Pcs	10		
	<i>Rate or Lump Sum in Words:</i>				

Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
9.5	<u>Painting</u>				
9.5.1	<u>Wall and Ceilings Paint Works</u> Wall paint include preparation of the base surfaces to receive the paints and apply the specified layers of putty and paint from the best quality as per specifications and as indicated in drawings The base surfaces should be clean and smooth and free from any pulled out old paints before starting application of the specified primer/undercoat. Apply 2 layers of putty then after smoothening, then 3 layers of the approved paint materials. All works and items should be as per manufacturer recommendation, compatible with each other and as per the Engineer instructions and approval, All paint types must be lead-free and Low VOC (Volatile Organic Compounds)				
9.5.1.2	Super Rubber Paint for old walls and ceilings <i>Rate or Lump Sum in Words:</i>	m ²	200		



Collection

Page №

Amount (US \$)

2.1	
2.2	
2.3	

Total Carried to General Summary	
	

Bill № 3: Mechanical Engineering Services



Item	Description	Unit	Estimated Quantity	Unit Rate (US \$)	Amount (US \$)
1	<u>GENERAL TECHNICAL REQUIREMENTS</u>				
1.2	<u>Rehabilitation Works General Requirements</u> Provide all necessary rehabilitation works and make all Mechanical systems in good condition complete including maintenance, cleaning, relocation works, replacing damaged items and equipment, removing and carting away resulting materials and equipment, testing and commissioning, and all other related works to ensure all Mechanical systems are properly working and functional.				
1.2.1	Maintenance and rehabilitation of existing plumbing works, including sanitary fixtures, floor drains, roof drains, manholes, pumps, WC tanks, adding where applicable all necessary valves, flush valves, etc., and all other necessary works.				
	Supply & Install new toilet lids	Item	2		
	Supply & Install Flushing system	Item	1		
	Supply & Install cistern lid (toilet tank lid)	Item	1		
	Repair water drainage pipe	Item	1		
	<i>Rate or Lump Sum in Words:</i>				
5	<u>SANITARY FIXTURES</u>				
5.7	<u>Wall Type Self Close Taps on Drinking Basins</u> Supply and install self close taps to be fixed in the drinking basin body as manufactured by Grohe Item No. 36-176 with all required works and drain accessories including trap and to be connected to the new water supply and drain and as instructed by the Engineer				
5.7.1	Wall Type Self Close Taps	No	1		
	<i>Rate or Lump Sum in Words:</i>				



Collection

Page №

Amount (US \$)

3.1

Total Carried to General Summary
.....
.....

General Summary



General Summary

Description

Amount (US \$)

Bill № 2: Civil and Architectural Works

Bill № 3: Mechanical Engineering Services

* Total Amount of Bill of Quantities

* Discount by Tenderer (_____ %)

* Total Amount of Tender (VAT Not Applicable)

* Total Amount of Tender in Words:

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