REPUBLIC OF LEBANON

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

LEAP - Lebanon Emergency Assistance Project

Rehabilitation of Shelters (Public Schools & TVET)
Batch 5: Lot 1, Lot 2 and Lot 3

Lot 1: Jezzine and Chouf

Tender Documents

Volume 4
Assessment & Preliminary Design Report

September 2026
Rev. 1

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Damour Technical School

(TVET 4)



Assessment & Preliminary Design Report

(September 2026)

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

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BRIEF DESCRIPTION:

- Site Coordinates: 33.72670575242454, 35.460414806330114
- The school consists of 1 Block.
- The school has a total number of students:
  - For AM Shift: 105 Students
  - For PM Shift: 507 Students
- The school consists of:
- First Basement: 2 Laboratories, Factory administrator room, Tool/equipment room, 3 toilets
- Ground Floor: 5 Classrooms, Kitchen, 6 toilets, 3 administration rooms, guard room with toilet, 3 laboratories
- First Floor: 7 classrooms, kitchen, toilet,3 administration rooms, storage room, 9 toilets, mezzanine
- Roof Floor: Hospitality lab with kitchen sink, 2 small rooms, 4 toilets

SITE LOCATION:





REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Students' toilets in the school building require a rehabilitation.
2. Roof to be insulated/water proofed
3. Ramps need to be done in front of some rooms, or repaired
4. Painting works of some rooms
5. Electrical works are required
6. Sanitary repairing work is required
7. Repair of existing wooden doors where needed.
8. Window sieves need to be installed

NOTES:

- No lift is available in the school, but it can be executed
- The ground floor is accessible via an existing ramp and includes an accessible classrooms and toilet.
- 2 water tanks supplied during the war (1 used, 1 unused)
- Sewerage system of the school connected to town main line (no problem faced)

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

BASEMENT FLOOR

Rehabilitation of Doors: Change
Girls Bathrooms



Rehabilitation of Doors: Change
Girls Bathrooms



Rehabilitation of Wooden Door: Frame
Toilets



Rehabilitation of Wooden Door: Handle
Toilets



Rehabilitation of Door: Lock and Handle
Toilets



Insulation of Water Heater
Toilets



GROUND FLOOR

Rehabilitation of aluminum windows: New Nets - Classroom



Rehabilitation of Wooden Doors-Toilets



Rehabilitation of Wooden Doors-Toilets



Rehabilitation of Wooden Doors - Room 7&9 and 67



FIRST FLOOR

Rehabilitation Of Chalkboard- Classroom - Room 42,21 and 39



Rehabilitation of doors: handle- Room 37 and 23



Rehabilitation of doors- Room 24 and toilet 41 (door 1)



Repair Ramp and Add Handrail



Supply and Install mosquito screen for window at Room 29, 39, 42 and Room 46.

II. MECHANICAL WORKS

GROUND FLOOR

Rehabilitation of The Toilet Fixture Bathroom No.8



Rehabilitation of The Sanitary:Pipes Under Tiles to Fix Water Seepage Bathroom No.19



FIRST FLOOR

Rehabilitation of The Sanitary: Pipes
Bathroom 41



Rehabilitation of Toilet : Fixtures
Bathroom 31



III. ELECTRICAL WORKS

BASEMENT FLOOR

Lighting Fixture - Toilets



GROUND FLOOR

Solve electrical issue - Room 14



Lighting Fixture - Room 20 &18



RISKS AND RECOMMENDATIONS

During our site visit the below point was encountered:

No.	Risk	Recommendation
1	Water seepage and damping from roof issue	Insulation of roof
2	Lighting is broken in some rooms and bathrooms	Replacement of lights to provide safe and clear environment
3	Physical risk due to unstable tiling	Repair and retile

Repair Ceiling Damage Caused By Water Leakage
Basement Floor



Repair Tiling of Bathroom Walls
Basement Floor



Repair Water Seepage Damage - Room 20& 18
Ground Floor



Repair Tiling of Bathroom Walls - Bathroom 19
Ground Floor



Repair Tiling of Bathroom Walls - Bathroom 19
Ground Floor



Fix damping/water seepage of ceiling and walls and repaint - Room 42 - First Floor



Roof Waterproofing



Roof Waterproofing



Roof Waterproofing



LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Rafic Hariri Secondary Public School

(School CERD 164)



Assessment & Preliminary Design Report

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ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.7407330384574, 35.45489198730363
- The building is owned by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 400 students
  - For PM Shift: 200 students
- The school consists of 1 Block.
- Rafic Hariri Official High School consists of:
  - Basement Floor: Toilet unit (3 boys cubicles)
  - Ground Floor: Outdoor Playground
  - First Floor: 3 Administration rooms, Techers' room, Medical room, 4 toilets (2 girls toilets and 2 boys toilets), 8 Classrooms, Storage
  - Second Floor: 10 Classrooms, 2 Libraries, Laboratory, Preparation room for laboratory, Kitchen, Storage, 4 toilets (2 girls toilets and 2 boys toilets)



SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Repair of existing doors where needed.
2. Change of white boards where needed
3. Repair of windows
4. Rehabilitation of damaged ceilings
5. Electrical works are required.
6. Repair of toilet fixtures (WC, lavatory) where needed

Notes:

- No lift is available in the school, there is a location for a lift to be executed
- The school is not accessible via a ramp
- No prefabricated Toilet units are installed in the schools
- No water tanks were supplied to the school
- Sewerage system of the school connected to town main line (no problem faced)

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS



BASEMENT FLOOR

Rehabilitation of False Ceiling – Toilets



Rehabilitation of False Ceiling - Toilets



Rehabilitation of False Ceiling – Toilets



Rehabilitation of False Ceiling - Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation Toilets: Seperator – Boys Toilet



Rehabilitation Toilets: Mirrors - Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Louver Toilets



Rehabilitation of Wooden Door: Lock Toilets



Rehabilitation of Aluminium Window: glass Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Steel Door: Lock – Playground



Rehabilitation of Steel Door: Lock - Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of Toilets: Mirrors and Shelf – Boys Toilets



Rehabilitation of Toilets: Seperators - Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Lock – Toilets



Rehabilitation of Wooden Door: Lock - Toilets



New White Board - Room C1



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

New White Board - Room C2



New White Board - Room C3



New White Board - Room C4



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

New White Board - Room C5



New White Board - Room C6



New White Board - Room C7



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window: Handles
Administration room



Rehabilitation of False Ceiling
Administration Toilet



Rehabilitation of False Ceiling - Administration Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Rehabilitation of Wooden Door: Lock - Toilets



Rehabilitation of Wooden Door: Lock - Toilets

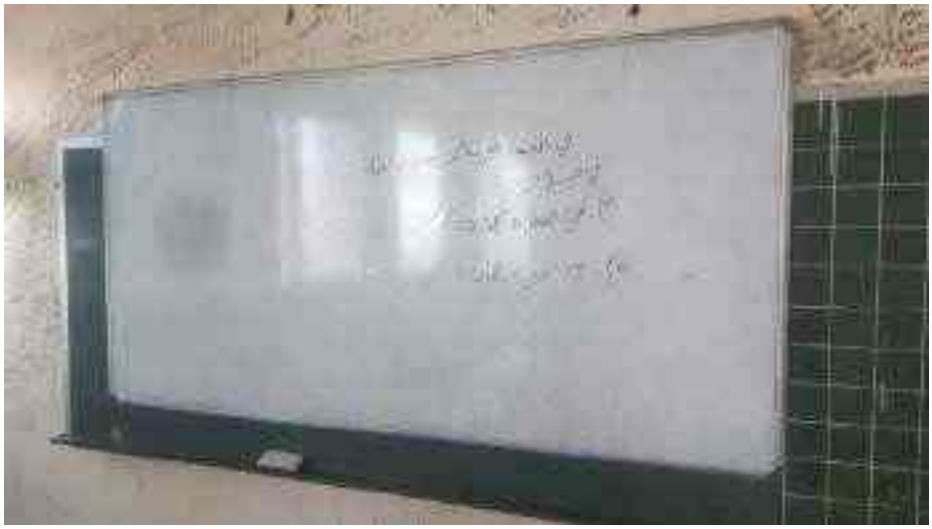


Rehabilitation of Wooden door: Glass – Room C15



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

New White Board - Room C9



New White Board - Room C10



New White Board - Room C11



New White Board - Room C12



New White Board - Room C13



Rehabilitation of Toilets: Mirrrors and Shelves
Boys Toilets



Rehabilitation of Toilets:Seperators - Boys Toilets



New box - Classrooms



II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT FLOOR:

Rehabilitation Of Toilets: New Seat And Fixtures



Rehabilitation of Toilets: Fixtures & Connections



Rehabilitation of Toilets: Lavatory Fixtures and Connections



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR:

Rehabilitation of Toilets: Lavatories – Toilet



Rehabilitation of toilets: lavatory fixture - Toilet



Rehabilitation of Toilets: Lavatory Fixtures – Administration Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Lavatory Fixture Administration Toilet



Rehabilitation of Toilets: WC Fixture Administration Toilet



Rehabilitation of Toilets: Urinals - Administration Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Rehabilitation of Toilets: Lavatory Fixtures



Rehabilitation of Toilets: Lavatories



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Urinals



Maintenance of Sink Drainage And Connections- Kitchen



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTRICAL WORKS



BASEMENT FLOOR

Lighing Fixture – Toilets



Lighing Fixture - Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Electric Socket and Switch - Room C5



Electric Socket and Switch - Room C5



Electric Socket and Switch - Toilets

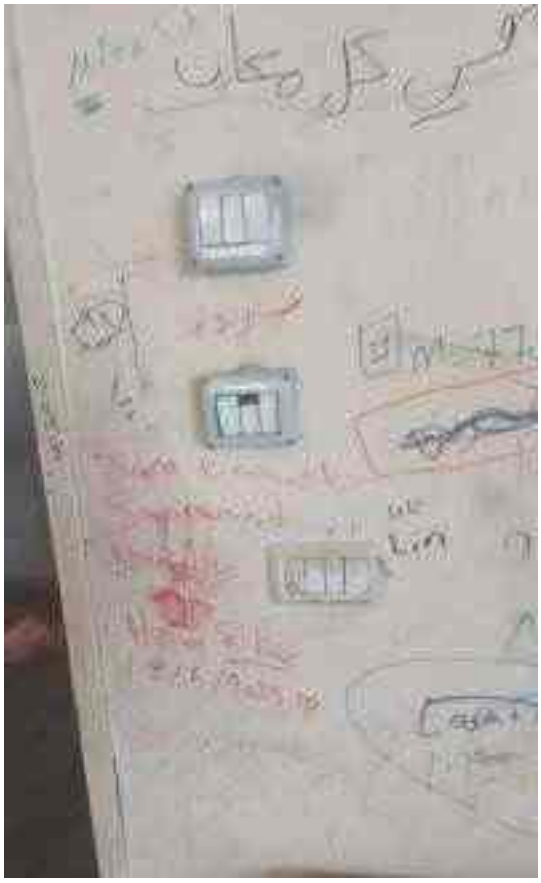


Electric Socket and Switch - Room C4



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Electric Socket and Switch - Room C6



Electric Socket and Switch - Room C7



Electric Socket and Switch – Teachers Room



SECOND FLOOR:

Electric Socket and Switch - Room C10



Electric Socket and Switch - Room C11



Electric Socket and Switch - Room C15



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Physical risk due to damaged ceiling in bathroom and falling debris	Must be properly repaired
2	Deteriorating drywall and plaster due to water leakage and trapping of moisture fosters toxic mold and mildew growth, and risks long-term structural weakening.	Water proof the walls/ceilings and re-plaster/re-tile and repaint
3	Damaged sanitary fixtures can disrupt daily facility use and compromise occupant health.	Replace or repair broken toilet bowls, sinks, valves, and hardware to ensure full sanitation compliance.

SECOND FLOOR

Insulation/water proofing - Room C8



LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Betir Intermediate Public School

(School CERD 318)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°36'12.39"N 35°37'03.92"E
- The building is Owned by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 150 Students
- The school is of approximately 2800 m2 built up area.
- The school consists of 1 Block.
- Betir Intermediate public School consists of:
  - Second Basement: Storage, Mechanical Room, Technical Room
  - First Basement: Supervisor Room, 6 Classrooms, Workshop, Drinking Basin, Administration (3 offices, Storage, Kitchenette, Staff Toilet Unit), Toilet Unit (3 Boys WC / 3 Girls WC) Basketball Playground, Outdoor Playground, Outdoor kitchenette, Boys Changing Room, Girls Changing Room, Sport Storage.
  - Ground Floor: Multipurpose Hall, Art Section (6 classes), Storage, Restroom, Administration (3 Offices, Kitchenette), 2 Classrooms, Kids Toilet Unit, Playroom. Toilet Unit (3 Boys WC / 3 Girls WC) Outdoor Balcony.
  - First Floor: 6 Classrooms, Supervisor Room, Janitor, Library, Staff Room, Drinking Basin, Administration (3 offices, Storage, Kitchenette, Staff Toilet Unit), Toilet Unit (3 Boys WC / 3 Girls WC), 2 Laboratories
  - Roof Floor: 2 Storages, 1 Mechanical Room

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Rehabilitation of Students' toilets in the school where required.
2. Painting works are required.
3. Repair of existing aluminum windows where needed.
4. Repair of existing wooden doors where needed.
5. Electrical works are required.
6. Curtains replacement where needed.

Notes:

- No lift is available in the school, and the school ground floor is accessible via a ramp.
- The school needs to have its water drainage pipes and sewage network inspected.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

BASEMENT 01

Providing New Student Desk



Providing New Student Desk



Suplly New anti-slip rubber strips on the stairs



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Handle
Classroom 02-



Rehabilitation of Wooden Door: Handle
Classroom 04-



Rehabilitation of Wooden Door: Handle
Classroom 05-



Rehabilitation of Wooden Door: Handle
Classroom 05-



Rehabilitation of Wooden Door: Handle
Classroom 06-



Rehabilitation of Wooden Door: Handle
Emergency door



Rehabilitation of Wooden Door: Handle
Elementary Entrance door



Rehabilitation of Wooden Door: Door Painting



Rehabilitation of Wooden Door: Handle
Workshop



Rehabilitation of Wooden Door: Handle
Storage



Rehabilitation of Wooden Door: Handle
A.D.P.



Rehabilitation of Wooden Door: Handle
Staff Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Panels
Sudents Toilets



Rehabilitation of Wooden Door: Handle
Girls Sport Changing



Rehabilitation of Wooden Door : Panels
Boys Sport Changing



Rehabilitation of Wooden Door: Threshold
Administration door



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Door: Handle Supervisor Room



Rehabilitation of Aluminum Door : Handle Corridor



Rehabilitation of Aluminum Door: Handle Workshop



Rehabilitation of Aluminum Door: Handle Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Painting: Wall – Classroom 06



Internal Painting: Wall – Classroom 05



Internal Painting: Wall – Classroom 04



Internal Painting: Wall – Classroom 03



Internal Painting: Wall – Classroom 02



Internal Painting: Wall – Classroom 01



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Painting: Wall – Corridor



Internal Painting: Wall – Corridor



External Painting: Wall – Courtyard



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

External Painting: Wall – Courtyard



External Painting: Wall – Courtyard



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Supply new internal curtain for Classroom 03



Supply new internal curtain for Classroom 05



Rehabilitation of Aluminum Windows: Handle for the entire floor



Maintenance Of Existing Basketball Playground (Floor and Equipments)





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Wooden Door: Handle
Disabled Toilet



Rehabilitation of Wooden Door: Handle
Activity room



Rehabilitation of Wooden Door: Handle
Emergency Door



Rehabilitation of Wooden Door: Handle
Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Handle
Girls Toilets



Rehabilitation of Wooden Door: Handle
Toilets



Rehabilitation of Wooden Door: Handle
Girls Toilets



Rehabilitation of Wooden Door: Handle
Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Handle
Boys Toilets



Rehabilitation of Wooden Door: Handle
Pre-Elementary Door



Rehabilitation of Wooden Door: Handle
Girls Toilets



Rehabilitation of Wooden Door: Handle
Stuff Toilets-

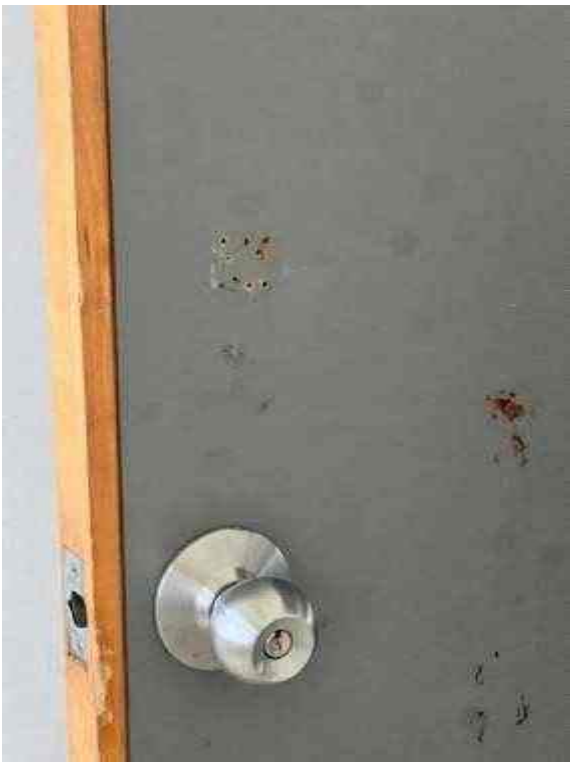


A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Handle
A.D.P



Rehabilitation of Wooden Door: Handle
Classroom 03



Rehabilitation of Wooden Door: Handle
Classroom 02



Rehabilitation of Wooden Door: Handle
Kids Toilets



Rehabilitation of Aluminum Door: Handle workshop



Rehabilitation of Aluminum Door: Handle Corridor



Rehabilitation of Aluminum Door: Handle Workshop



Rehabilitation of Aluminum Door: Handle Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Door: Handle Entrance Door



Rehabilitation of Aluminum Door: Threshold Toilet Unit



Rehabilitation Of Expansion Joint



Rehabilitation Of Expansion Joint



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Supply new internal curtain for Restroom



Rehabilitation of Aluminum windows: Handle for the entire floor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of Aluminum Door: Handle
Supervisor Room



Rehabilitation of Wooden Door: Handle
Classroom 06



Rehabilitation of Wooden Door: Handle
Classroom 06



Rehabilitation of Wooden Door: Handle
Classroom 05



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Handle
Classroom 05



Rehabilitation of Wooden Door: Handle
Classroom 04



Rehabilitation of Wooden Door: Handle
Classroom 04



Rehabilitation of Wooden Door: Handle
Classroom 03



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Handle
Classroom 01-



Rehabilitation of Wooden Door: Handle
Classroom 01



Rehabilitation of Wooden Door: Handle
Classroom 02-



Rehabilitation of Wooden Door: Handle
Classroom 02



Rehabilitation of Wooden Door: Handle
Emergency Door



Rehabilitation of Wooden Door: Handle
Boys toilets



Rehabilitation of Wooden Door: Handle
Boys Toilets



Rehabilitation of Wooden Door: Handle
Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Door: Handle
Supervisor Room



Rehabilitation of Aluminum Door: Handle
Corridor



Supply new internal curtain for Classroom 06



Supply new internal curtain for Classroom 05-



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Supply new internal curtain for Classroom 03



Supply new internal curtain for Classroom 01-



Supply new internal curtain for Classroom 02



Rehabilitation of Aluminum Windows: Handle for the entire floor



ROOF FLOOR

Rehabilitation of Steel Door: Handle



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT FLOOR

Drainage Problem in Workshop



Rehabilitation of Drinking basin Taps



Semi Pedestal Lavatory Trap Cover-Boys Toilets



Rehabilitation of Staff Toilets: Faucet -



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Staff Toilets: Faucet



Rehabilitation of Staff Toilets: Seat Cover



Rehabilitation of Admnin Toilets: Faucet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Girls Toilets: Faucet



Rehabilitation of Boys Toilets: Faucet



Rehabilitation of Staff Toilets: Faucet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Kids Toilets: Faucet



Rehabilitation of KidsToilets: Sink



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Kids Toilets: Faucet



Rehabilitation of Stuff Toilets: Flash tank Cover



Rehabilitation of Stuff Toilets: Flash tank Cover



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Stuff Toilet: Seat Cover



Rehabilitation of Kids Toilets Partition and Accessories



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FISRT FLOOR

New Taps for Drinking basin



Rehabilitation of Girls Toilets: New lavatories



Rehabilitation of Boys Toilets: New lavatories



Rehabilitation of Girls Toilets: Flash tank Cover



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Girls Toilets: Flash tank Cover



Rehabilitation of Boys Toilets: Flash tank Cover



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

ROOF FLOOR

Maintenance of Existing Heating System



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTICAL WORKS

BASEMENT 02

Replacement of existing Generator Battery



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT 01

Electrical Projector – Basketball Playground



Lighting Fixtures – Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Lighting Fixtures – Playground



Socket – Corridor



Socket – Classroom 02



Socket – Classroom 02



Socket – Classroom 01



Socket - A.D.P



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Socket – Classroom 01



Socket – Classroom 02



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	The school suffers from significant dampness in its walls and ceilings due to persistent water infiltration from the roof, resulting in moisture accumulation and deterioration of the building's interior surfaces.	It is recommended to address the sources of water leakage from the roof, implement the necessary waterproofing and maintenance works, repair damaged walls and ceilings, eliminate moisture and mold, and inspect electrical components to ensure the safety of students and school staff.

Water infiltration



Water infiltration – Classroom



Water infiltration – Supervisor Room



Water infiltration – Classroom



Water infiltration – Classroom



Water infiltration – Classroom



Water infiltration – Classroom



LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Barja Intermediate Public School for Girls

(School CERD 292)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.651439005989985, 35.44525506140899
- The building is donated to Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 124 students
- The school consists of 2 connected Blocks.
- Barja Intermediate Public School for Girls consists of:
  - Basement Floor: Girls' toilet unit (8 cubicles), KG's toilets
  - Ground Floor: Sports equipment room, 1 KG's classroom, Storage room, Administration room, Supervisor room, Techers' room, Library, 1 Classroom, Computer room, Kitchen with toilet, Handicap, Unused toilet
  - First Floor:
    - Block 1: 8 Classrooms, Eating room
    - Block 2: Laboratory, Computer room, toilet

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Repair of existing wooden doors where needed.
2. Change of whiteboards where needed
3. Repair of existing aluminum windows where needed
4. Electrical works are required.
5. Repair of toilet fixtures where needed

Notes:

1. No lift is available in the school, and no location for it
2. The school is not accessible via a ramp
3. No prefabricated Toilet units were added to the school during war
4. 1 water tank was supplied
5. Water solar system is available in school
6. Sewerage system of the school connected to town main line (no problem faced)

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BLOCK 1

BASEMENT FLOOR

Rehabilitation of wooden doors: Locks- Girls' toilet



Rehabilitation of wooden doors: Locks- Girls' toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of playground fence



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of steel windows: Mosquito screen - Room 3



Rehabilitation steel door: Mosquito screen- Room 7



Rehabilitation steel door: Mosquito screen- Room 7



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of aluminum window: Mosquito screen- Room 4



Repair of broken closet in Room 4



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

New White Board- Room 4



New White Board - Room 6



BLOCK 2

FIRST FLOOR

Rehabilitation of aluminum doors: Handle
Girls' toilets



Rehabilitation of steel door: Handle
Computer room



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BLOCK 1

BASEMENT FLOOR:

Rehabilitation of toilets: Missing fixtures- Girls' toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BLOCK 2

FIRST FLOOR:

Rehabilitation of toilets: Faucets - Girls' toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTRICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR:

Maintenance of entrance camera - First rooms



Maintenance of camera - Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Risk of fires or harm due to exposed electric cables	Must be properly covered and organized.
2	Deteriorating drywall and plaster due to water leakage and trapping of moisture fosters toxic mold and mildew growth, and risks long-term structural weakening.	Water proof the walls/ceilings and re-plaster/re-tile and repaint
3	Damaged sanitary fixtures can disrupt daily facility use and compromise occupant health.	Replace or repair broken toilet bowls, sinks, valves, and hardware to ensure full sanitation compliance.

FIRST FLOOR

Insulating/water proofing windows in Room 2





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Insulating/water proofing window in Room 1



BLOCK 2: Insulating/water proofing window of computer room



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Al Jahliyeh Intermediate Public School

(School CERD 301)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.665752,35.513424
- The building is rented from a social association.
- The school has a total number of students:
  - For AM Shift: 130 Students
- The school is of approximately 1500 m2 built up area.
- The school consists of 1 Blocks.
- Al Jahliyeh Intermediate public School consists of:
  - First Basement: Library, Electrical Room, Mechanical Room.
  - Ground Floor: 2 sanitary blocks (6 girls toilets and 6 boys toilets), Outdoor Playground, Indoor Playground, administration (2 offices), Teacher Room, 3 Classrooms, Art Room, Health guidance room, 2 stair blocks.
  - First Floor: 5 Classrooms, 1Toilet, Computer laboratory, Laboratory, Teacher Room.
  - Second Floor: 8 Classrooms, 1 Toilet, Laboratory, Teacher Room.
  - Roof Floor

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Rehabilitation of students' toilets where needed.
2. Repair of existing aluminum windows where needed.
3. Repair of existing wooden doors where needed.
4. Wall tiles Repair where needed.
5. Internal Paint where needed.
6. Electrical and Mechanical works are required.
7. Curtains replacement where needed.

Notes:

- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- We can install a ramp to provide wheelchair access to the ground floor, and there is an available hall that can be converted into a classroom for them.
- Two 2,000-liter water tanks were installed during the war.
- No prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation Toilets: Wall Tiles – Boys Toilet



Rehabilitation Toilets: Wall Tiles – Girls Toilet



Rehabilitation Toilets: Wall Tiles – Girls Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of Wooden Door: Handle - Toilets



Rehabilitation of Wooden Door - Room 2



Rehabilitation of Wooden Door - Room 3 -



Rehabilitation of Wooden Door - Room 4 -



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door - Room 5



Rehabilitation of Wooden Door - Exit door



Rehabilitation of Aluminum Window: Handle Room 1



Rehabilitation of Aluminum Window: Handle Room 3



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window: Handle Room3



Rehabilitation of Aluminum Window: Handle Room 5



Rehabilitation of Aluminum Window: Handle Corridor



Rehabilitation of Aluminum Window: Handle Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window: Handle Corridor



Rehabilitation of Aluminum Window: Handle Corridor



Rehabilitation of Wooden Door: Handle -WC -



Internal Paint: Walls -WC



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Curtain - Computer Lab



SECOND FLOOR

Rehabilitation of Wooden Door – Room 6



Rehabilitation of Wooden Door – Room 8



Rehabilitation of Wooden Door – Room 9-



Rehabilitation of Wooden Door – Room 10-



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Room 11



Rehabilitation of Wooden Door – Room 12



Rehabilitation of Wooden Door – Entrance Door -



Rehabilitation of Wooden Door – Exit Door -



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint: Walls -Corridor-



Internal Paint: Walls -Corridor



Internal Paint: Walls - Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint: Walls - Corridor



Internal Paint: Walls - Corridor-



Internal Paint: Walls - Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window: Handle Room 6



Rehabilitation of Aluminum Window: Handle Room 8



Rehabilitation of Aluminum Window: Handle Room 9



Rehabilitation of Aluminum Window: Handle Room 10



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window: Handle Room 11



Rehabilitation of Aluminum Window: Handle Room 12



Rehabilitation of Aluminum Window: Handle Corridor



II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Toilets: Seat-Girls Toilets



Rehabilitation of Toilets: Basin -Girls Toilets



SECOND FLOOR

Rehabilitation of Toilets: Flash Bottom



III. ELECTICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Electrical Socket - Room 2



Projector Protection Rehabilitation – Room 3



Projector Protection Rehabilitation – Room 5



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1		

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Kfarfakoud Mixed Intermediate Public School

(School CERD 302)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°42'03.82"N 35°32'00.94"E
- The building is a donation from the townspeople.
- The school has a total number of students:
  - For AM Shift: 130 Students
- The school is of approximately 500 m2 built up area.
- The school consists of 1 Block.
- Kfarfakoud Mixed intermediate public School consists of:
  - Ground Floor: Administration (3 offices, toilet), Teacher room, kitchenette, laboratory, Computer Laboratory, Playground, 2 classrooms, 4 Boys toilet unit, 4 Girls toilet unit.
  - First Floor: 11 Classrooms, Library, Supervisor Room, Printing Room
  - Second Floor: Concert Hall, Backstage (2 Rooms), Art Room
  - Roof Floor.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Students' toilets in the school building require rehabilitation.
2. Painting works are required.
3. Repair of existing aluminum windows where needed.
4. Repair of existing wooden doors where needed.
5. Wall tiles Repair where needed.
6. Curtains replacement where needed.
7. New steps under board where needed
8. Electrical and Mechanical works are required.

Notes:

- No lift is available in the school, and the school ground floor is not accessible through a ramp.
- Installation of an accessibility ramp is not feasible to access the ground floor.
- Two 2,000-liter water tanks were installed during the war.
- No prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

GROUND FLOOR

Rehabilitation Toilets: Wall tiles – Girls toilet



Rehabilitation Toilets: Wall Partition – Girls toilet



Rehabilitation Toilets: Wall tiles – Boys toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of aluminum window: Glass
Room 1



Rehabilitation of aluminum window: Glass
Room 7



Interna Curtain - Class 1, 2, 3, 4, 5, 11 and 12



Interna Curtain - Class 1, 2, 3, 4, 5, 11 and 12



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Painting : Wall – Room 5



Internal Painting : Ceiling – Toilet



New White Board - Room 12



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of toilets: Seat Cover-Girls toilets



Rehabilitation of toilets: Seat Cover-Boys toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Lighting fixtures – Kids Toilet-



Lighting fixtures - Class 1



Lighting fixtures - Class 5-



Lighting fixtures – Class 7



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Lighting fixtures: Add lampe – Class 8



Lighting fixtures: Add lampe – Class 9



Lighting fixtures: Add lampe - Class 10



Lighting fixtures - Class-11



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Lighting fixtures – Corridor



Lighting fixtures - Corridor



Projector repair : Class 1, 2, 4, 7 and 8



Projector repair : Class 1, 2, 4, 7 and 8



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit, no risks were encountered.

No.	Risk	Recommendation
1	---	---
2	---	---
3	---	---
4	---	---

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Bchatfine Intermediate Public School

(School CERD 303)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°42'47.99"N 35°33'05.60"E
- The building is owned by Ministry of education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 80 Students
- The school is of approximately 500 m2 built up area.
- The school consists of 1 Block.
- Bchatfine intermediate public School consists of:
  - Ground Floor: Administration (2 office, 1Wc) , Teacher Room , Supervisor Room , Library , Hall , Kitchenette , 1 Classroom , 2 toilet units (3 boys Wc / 3 Girls Wc).
  - First Floor: 11 classrooms, Storage, Supervisor Room.
  - Roof Floor

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Students' toilets in the school building require a makeover.
2. Repair of existing aluminum windows where needed.
3. Repair of existing wooden doors where needed.
4. Wall tiles Repair where needed.
5. Electrical works are required.
6. Curtains replacement where needed.
7. Painting works are required.

Notes:

- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- We can install a ramp to provide wheelchair access to the ground floor, and there is an available hall that can be converted into a classroom for them.
- One 2,000-liter water tanks were installed during the war.
- No prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Internal Paint : Walls -Hall- and Removing Internal Partitions



Internal Paint : Walls -Girls Toilets -



Internal Paint : Walls - Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint : Walls -Boys Toilets -



Internal Paint : Walls -Stair Block



Rehabilitation of aluminum window: Glass All Toilet



Rehabilitation of aluminum window: Glass Girls Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of Wooden Door – Classroom 01



Rehabilitation of Wooden Door – Classroom 03



Rehabilitation of Wooden Door : Handle
Classroom 04



Rehabilitation of Wooden Door
Classroom 05



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door
Classroom 06



Rehabilitation of Wooden Door
Classroom 07



Rehabilitation of Wooden Door – Classroom 08



Rehabilitation of Wooden Door – Classroom 09



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Classroom 10



Internal Paint : Walls – Classroom 04



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint : Walls – Classroom 05-



Internal Paint : Walls – Classroom 06



Internal Paint : Walls – Classroom 07



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint : Walls – Corridor



Internal Curtain - Classroom 04



Internal Curtain - Classroom 06



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Outdoor Fence Wires Repair



II. ELECTICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Lighting Fixtures - Class -01



Lighting Fixtures - Class -02



Lighting Fixtures Class -03



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Lighting Fixtures - Class 04



Lighting Fixtures - Class 05



Lighting Fixtures - Class 08



Lighting Fixtures - Class 09



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Fan Repair - Classroom -05-06-07-08-09-10



Projector repair - Class-04



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	**Risk**	**Recommendation**
1		

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Ainbal – Atreen Intermediate Public School

(School CERD 308)



Assessment & Preliminary Design Report

August 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°39'44.45"N 35°34'02.47"E
- The building is a donation from a public Association.
- The school has a total number of students:
  - For AM Shift: 50 Students
- The school is of approximately 600 m2 built up area.
- The school consists of 1 Block.
- Ainbal -Atreen Intermediate public School consists of:
  - Ground Floor: 2 Toilet Units (2 Boys Wc, 2 Girls Wc) , Outdoor Playground,3 Classrooms , Storage , 1 Wc , 2 stair blocks.
  - First Floor: Administration, Supervisor Room, 2 Classrooms, Teacher Room, kitchenette, 2 Wc
  - Second Floor: 6 Classrooms, 2 Wc.
  - Roof Floor

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Students' toilets in the school building require a maintenance.
2. Repair of existing aluminum windows where needed.
3. Repair of existing wooden doors where needed.
4. Wall tiles Repair where needed.
5. Curtains replacement where needed.
6. Painting Works are required.

Notes:

- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- We can install a ramp to provide wheelchair access to the ground floor.
- water Filter were installed during the war.
- 2 prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

GROUND FLOOR

Internal Curtain – KG3



Internal Curtain – KG1



Rehabilitation of Wooden Door - KG2-



Rehabilitation of Wooden Door - KG1



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation Iron Door - Girls Toilet



Rehabilitation Iron Door - Boys Toilet



Rehabilitation Toilets: Wall Tiles-Girls Toilet-



Rehabilitation Toilets: Wall Tiles-Girls Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Painting : Ceiling - Girls Toilet



Internal Painting : Ceiling - Boys Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Supply New Curtain – Grade 3



Rehabilitation of Wooden Door - Grade 3



Rehabilitation of Wooden Door - Girls Toilet



Rehabilitation of Wooden Door -Boys Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door - Teacher Room-



Rehabilitation of Wooden Partition - Kitchenette



Internal Painting: Ceiling - Girls Toilet



Internal Painting: Ceiling - Boys Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Painting: Walls – Stair Block



Rehabilitation of aluminum Window: Handle
Stair Block



Repair Base Kitchen Cabinet
Kitchenette



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Internal Plaster – Art Room



Rehabilitation of Wooden Door - Art Room



Rehabilitation of Wooden Door -Grade 4



Rehabilitation of Wooden Door: Handle -Grade 7



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door: Handle -Grade 10



Rehabilitation of Wooden Door - Grade 7



Rehabilitation of Wooden Door - Grade 6



Rehabilitation of Wooden Door: Handle -Grade 5



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door - Boys Toilet



Rehabilitation of Wooden Door - Girls Toilet



Internal Curtain – Art Room



Internal Curtain – Art Room



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Supply New Curtain -
Grade 7



Rehabilitation Of Aluminum Window : Glass
Grade 5



Rehabilitation of aluminum Window: Handle
Grade 6



Rehabilitation of aluminum Window: Handle
Grade 6



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Painting: Walls – Kitchenette



Internal Painting: Walls – Boys Toilet



Rehabilitation of Wooden Partition -Kitchenette



Internal Curtain – Grade 5



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Toilets: Faucet-Playground



Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of Toilets: Seat Cover-Boys Toilets



SECOND FLOOR

Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1		

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Baakline Secondary Public School

(School CERD 310)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°40'06.24"N 35°32'50.48"E
- The building is Owned by Ministry of Education and Higher Education .
- The school has a total number of students:
  - For AM Shift: 250 Students
- The school is of approximately 2500 m2 built up area.
- The school consists of 1 Block.
- Baakline secondary public School consists of:
  - First Basement Electrical Room, Mechanical Room.
  - Ground Floor: 2 Toilet Units (16 Boys Wc, 16 Girls Wc) , Outdoor Playground, Indoor Playground, administration (5 offices), cafeteria, library, Concert Hall, Conference Hall, 2 stair blocks.
  - First Floor: 16 Classrooms, 2Toilet Units (1 Boys Wc 1Girls Wc) , Principal Room, Supervisor Room,.
  - Second Floor: 14 Classrooms, 2Toilet Units (1 Boys Wc 1Girls Wc), Principal Room, Supervisor Room, Teacher Room , Art Room , Music Room .
  - Roof Floor

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Rehabilitation of Students' toilets in the school where required.
2. Repair of existing aluminum windows where needed.
3. Repair of existing wooden doors where needed.
4. Wall tiles Repair where needed.
5. Electrical works are required.
6. Curtains replacement where needed.

Notes:

- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- We cannot install a ramp to provide wheelchair access to the ground floor.
- Two 2,000-liter water tanks were installed during the war.
- No prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Aluminum Door : Glass Entrance



Rehabilitation of Aluminum Door : Glass Entrance



Rehabilitation of Aluminum Door : Glass Entrance



Rehabilitation of Aluminum Window : Glass Entrance



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window : Glass Entrance



Rehabilitation of Aluminum Window : Glass Entrance



Rehabilitation of Aluminum Window : Glass – Indoor Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Iron Door : Handle - Entrance



Rehabilitation of Iron Door : Handle - Entrance



Rehabilitation of Iron Door : Handle - Entrance



Rehabilitation Aluminum Door : Handle - Entrance



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Iron Door : Handle - Entrance



Rehabilitation of aluminum door : Handle - Entrance



Rehabilitation of Iron Door : Handle Entrance



Rehabilitation of Aluminum Door : Handle Entrance



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door
Boys Toilets



Rehabilitation of Wooden Door-Handle
Boys Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door
Girls Toilets



Rehabilitation of Wooden Door Handle
Girls Toilets



Rehabilitation of Wooden Door – Lock
Girls Toilets



Rehabilitation of Wooden Door – Lock
Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Lock
Boys Toilets



Rehabilitation of Wooden Door – Lock
Boys Toilets



Internal Paint : Ceiling – Girls Toilets



Rehabilitation Toilets: Wall Tiles – Girls Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of Aluminum Window: Glass
Secondary Sciences (English) -A-



Rehabilitation of Aluminum Window: Glass
Secondary Sciences (English) -A-



Rehabilitation of aluminum window: Glass
Secondary Sciences (English) -B-



Rehabilitation of aluminum window: Glass
Secondary Sciences (English) -B-



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window: Glass - Secondary Sciences (English) -C-



Rehabilitation of Aluminum Window: Glass Secondary Sciences (English) -C-



Rehabilitation of Aluminum Window: Glass Stair Block



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Curtain - all classrooms in this floor



SECOND FLOOR

Rehabilitation of Aluminum door: Handle
First Secondary (French) -B-



Rehabilitation of Aluminum Window: Glass - First Secondary (French)-B-



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window : Glass Sociology – Economics (French)



Rehabilitation of Aluminum Window: Glass- Sociology – Economics (French)



Rehabilitation of Aluminum Window: Glass First Secondary (French) -



Rehabilitation of Aluminum Window : Glass- Sociology – Economics (English)-A-



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window : Glass
First Secondary (English)-C-



Rehabilitation of Aluminum Window : Glass
Supervisor Room



Rehabilitation of Aluminum door: Handle
Secondary Humanities (French)



Rehabilitation of Aluminum Window: Glass
Secondary Humanities (French)



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Iron Door : Handle - Laboratory



Rehabilitation of Wooden Door – Teacher Toilet



Rehabilitation of Aluminum Window: Glass Room 02



Rehabilitation of Aluminum Window: Glass Room 05



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilition of Wooden Partition – Music Room



Rehabilition of Wooden Partition – Music Room



II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Toilets: Flash Bottom Boys Toilets



Rehabilitation of Toilets: Flash Bottom Boys Toilets



Rehabilitation of Toilets: Flash Bottom Boys Toilets



Rehabilitation of Toilets: Flash Bottom Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Flash Bottom
Boys toilets



Rehabilitation of toilets: Flash Bottom
Boys toilets



Rehabilitation of toilets: Flash Bottom
Boys toilets



Rehabilitation of toilets: Flash Bottom
Boys toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Flash Bottom Girls Toilets



Rehabilitation of Toilets: Flash Bottom Girls Toilets



Rehabilitation of Toilets: Flash Bottom Girls Toilets



Rehabilitation of Toilets: Flash Bottom Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Flash Bottom Girls Toilets



Rehabilitation of Toilets: Flash Bottom Girls Toilets



Rehabilitation of Toilets: Flash Bottom Girls Toilets



Rehabilitation of Toilets: Flash Bottom Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of toilets: Flash Bottom Girls Toilets



Rehabilitation of toilets: Flash Bottom Girls Toilets



Rehabilitation of toilets: Flash Bottom Girls Toilets



Rehabilitation of toilets: Flash Bottom Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Faucet - Boys Toilets



Rehabilitation of Toilets: Faucet-Boys Toilets



Rehabilitation of Toilets: Faucet-Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Faucet-Girls Toilets



Rehabilitation of Toilets: Tissue Holder
Girls Toilets



Rehabilitation of toilets: Tissue Holder
Boys Toilets



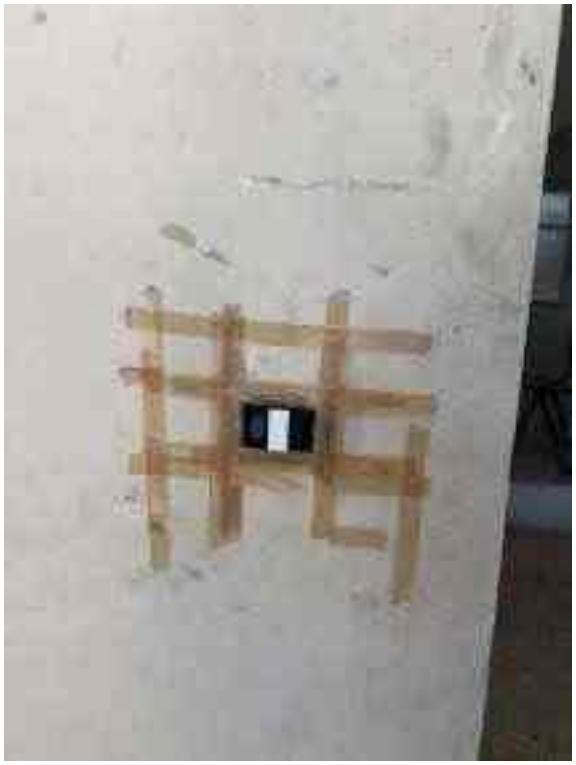
A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Electrical Socket - Corridor



SECOND FLOOR

Electrical socket - Corridor



Electrical Socket - Life Sciences (French)



Electrical Socket Sociology – Economics -B-



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Electrical Socket Sociology-Economic-B-



Electrical Socket Secondary Sciences (French)



Electrical Socket - Second Secondary Humanities (French)



Electrical Socket - Secondary Sciences (French)



Electrical Socket - Secondary Sciences (French)



Electrical Socket First Secondary (French)



Electrical Socket - First Secondary (French)



Electrical Socket - First Secondary (French)



Electrical Socket - First Secondary (English)



Electrical Socket - First Secondary (English)



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Repair of Central heating circulation pump



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1		

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Al Moukhtara Secondary Public School

(School CERD 313)



Assessment & Preliminary Design Report

August 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.6624019, 35.5967871
- The building is rented from the Walid Jumblat Educational Association.
- The school has a total number of students:
  - For AM Shift: 350 Students
- The school is of approximately 1500 m2 built up area.
- The school consists of 3 Blocks.
- Al Moukhtara secondary public School consists of:
  - First Basement Auditorium, Electrical Room, Mechanical Room.
  - Ground Floor: 2 sanitary blocks (6 girls' toilets and 6 boys' toilets), Outdoor Playground, Indoor Playground, administration (5 offices), cafeteria, library, laboratory, 2 stair blocks.
  - First Floor: 8 Classrooms, 1Toilet Unit (1 girls' toilets and 1 boys' toilets), Supervisor Room, Teacher Room, Science laboratory.
  - Second Floor: 8 Classrooms, 1 Toilet Unit (1 girls' toilets and 1 boys' toilets), Supervisor Room, Teacher Room.
  - Roof Floor.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Toilets in the school building require rehabilitation.
2. Painting works are required.
3. Repair of existing aluminum windows where needed.
4. Repair of existing wooden doors where needed.
5. New Curtain where needed.
6. New Threshold where needed.
7. Electrical and Mechanical works are required.

Notes:

- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- We can install a ramp to provide wheelchair access to the ground floor, and there is an available hall that can be converted into a classroom for them.
- Two 2,000-liter water tanks were installed during the war.
- No prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

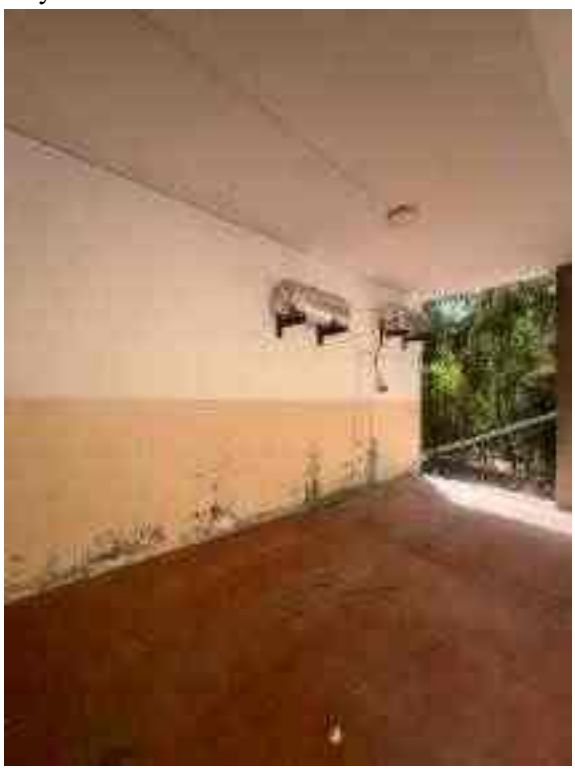
A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Aluminum door: Glass Cafeteria



External Paint and Removing of Shower Heater Boy toilets



External Paint and Removing of Shower Heater -Girl's toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation Toilets: Wall tiles – Boys toilet



Rehabilitation Toilets: Wall tiles – Boys toilet



Rehabilitation Toilets: Wall tiles – Boys toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden door – Boys toilets



Rehabilitation Toilets: Wall tiles – Girl's toilet



Rehabilitation Toilets: Wall tiles – Girl's toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation Toilets: Wall tiles – Girls toilet



Fix administration stair handrail



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of aluminum window: Glass
Class 02



Rehabilitation of aluminum window: Glass
Class 06



Rehabilitation of aluminum window: Glass - Class 08



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden door – Class 04



Rehabilitation of wooden door – Class 05



Internal Curtain – All classrooms



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Rehabilitation of wooden door – Class 20



Rehabilitation of wooden door: Handle - Class 20



Rehabilitation of wooden door – Class 21



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden door – Class 22



New threshold -Class 27



Rehabilitation of aluminum window: Glass Class 25



Rehabilitation of aluminum window: –Rollers Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of aluminum window: Glass - Class 27



Rehabilitation of aluminum window: Glass
Class 26



Rehabilitation of aluminum window: Frame
Class 28



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

New Curtain – All classrooms



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of toilets: Seat Cover-Boys toilets



Rehabilitation of toilets: Flash Bottom-Boys toilets



Rehabilitation of toilets: Flash Bottom -Boys toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of toilets: Faucet
Playground Boys toilets



Rehabilitation of toilets: Faucet
Playground Boys toilets



Rehabilitation of toilets: Seat Cover - Girl's toilets



Rehabilitation of toilets: Seat Cover - Girl's toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of toilets: Flash Bottom - Girl's toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

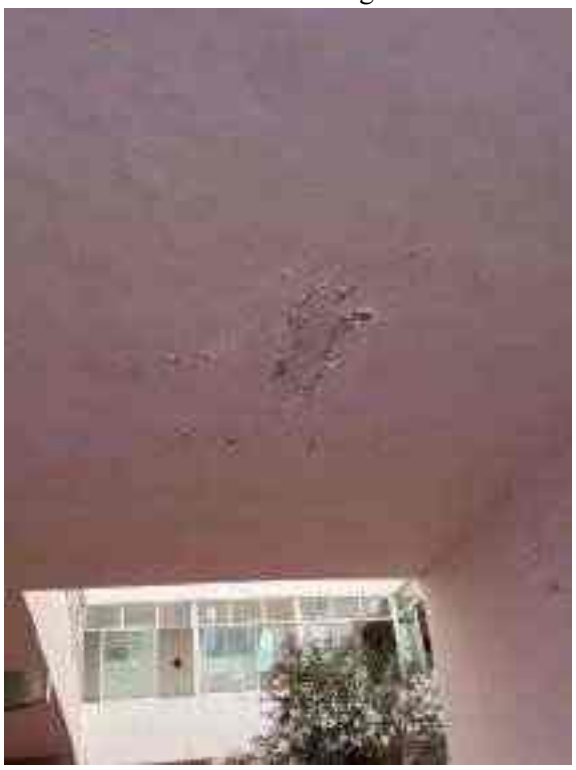
Rehabilitation of toilets: Seat Cover
Boys toilets



Rehabilitation of plumbing pipes in toilets
to prevent leaks



Water Infiltration due to leakage from toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Rehabilitation of toilets: Seat Cover - Boys toilets



III. ELECTICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Electrical sockets - Class 7



Electrical sockets - Class 8



Electrical sockets - Class -08



Lighting fixtures – Classroom 1 and 2



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Electrical sockets - Class 23



Electrical sockets - class 24



Electrical sockets- Class 21



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Lighting Fixtures: Classrooms 20, 23 and 24



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Water infiltration through the deteriorated waterproofing, causing dampness, mold.	Remove the damaged waterproofing, repair cracks and roof slopes, prepare the surface, then apply and test a new waterproofing system to prevent leakage.

Waterproofing - Roof Floor



Waterproofing -Roof Floor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Waterproofing - Roof Floor



Water infiltration in corridor



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COMMON SEAL
REPUBLIC OF LEBANON

Water infiltration in classroom



Water infiltration in classroom



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Bakaata Intermediate Public School

(School CERD 314)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°40'24.08"N 35°35'17.04"E
- The building is rented from Private owner.
- The school has a total number of students:
  - For AM Shift: 110 Students.
  - For PM Shift: 200 Students.
- The school is of approximately 2000 m2 built up area.
- The school consists of 1 Blocks.
- Bakaata Intermediate public School consists of:
  - First Basement Hall, Cafeteria, Technical room.
  - Ground Floor: stair block.
  - First Floor: 2 Toilet units (8 Boys Toilets, 8 Girls Toilets),
  - Second Floor: 6 Classrooms, 1Toilet Unit (1 Boys Toilet, 1 Girls Toilet), Principal Room, Supervisor Room, Teacher Room.
  - Third Floor: 4 Classrooms, 1 Toilet Unit, Principal Room, Supervisor Room, Teacher Room, Activity Room, Science laboratory, Art Room.
  - Roof Floor

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Students' toilets in the school building require a makeover.
2. Repair of existing Iron windows where needed.
3. Repair of existing wooden doors where needed.

Notes:

- The school has a dedicated Block for people with disabilities; however, it is currently closed due to circumstances related to the property owner.
- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- We cannot install a ramp to provide wheelchair access to the ground floor.
- Two 2,000-liter water tanks were installed during the war.
- Two prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets-



Rehabilitation of Wooden Door – Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Girls Toilets-



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Girls Toilets-



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets-



Rehabilitation of Wooden Door – Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Rehabilitation of Wooden Door – Room 01



Rehabilitation of Wooden Door – Room 02



Rehabilitation of Wooden Door – Room 03



Rehabilitation of Wooden Door – Room 04



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Room 05



Rehabilitation of Wooden Door – Room 06



Rehabilitation of Wooden Door – Boys Toilet -



Rehabilitation of Wooden Door – Girls Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

THIRD FLOOR

Rehabilitation of Wooden Door – Art Room



Rehabilitation of Wooden Door – Activity Room



Rehabilitation of Wooden Door – Room 01



Rehabilitation of Wooden Door: Handle – Room 01



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Room 02



Rehabilitation of Wooden Door: Handle – Room 02



Rehabilitation of Wooden Door – Room 03



Rehabilitation of Wooden Door – Room 04



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Laboratory-



Rehabilitation of Wooden Door – Room 05



Rehabilitation of Iron Window :Handle Laboratory



Rehabilitation of Iron Window :Handle Room 01



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Iron Window :Handle
-Room 02-



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FISRT FLOOR

Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation Of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation Of Toilets: Seat Cover-Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of toilets: Seat Cover-Boys toilets



Rehabilitation of toilets: Seat Cover-Boys toilets



Rehabilitation of toilets: Seat Cover-Boys toilets



Rehabilitation of toilets: Seat Cover-Boys toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Faucet -Boys Toilets



Rehabilitation of Toilets: Faucet -Boys Toilets



Rehabilitation of Toilets: Faucet - Boys Toilets



Rehabilitation of Toilets: Faucet - Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



THIRD FLOOR

Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Water infiltration through the deteriorated waterproofing, causing dampness, mold.	Remove the damaged waterproofing, repair cracks and roof slopes, prepare the surface, then apply and test a new waterproofing system to prevent leakage.

Waterproofing-Roof Floor-



Waterproofing-Roof Floor-



Water Infiltration-Classroom-



Water Infiltration-Playground-



Water Infiltration-Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Water Infiltration - Stair



Water Infiltration - Classroom



LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Ain W Zein Intermediate Public School

(School CERD 315)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°40'46.69"N 35°37'33.52"E
- The building is rented from a private owner.
- The school has a total number of students:
  - For AM Shift: 60 Students
  - For PM shift: 210 students
- The school is of approximately 700 m2 built up area.
- The school consists of one Blocks.
- Ain w Zein intermediate public School consists of:
  - Ground Floor: 2 sanitary blocks (6 girls toilets and 6 boys toilets), Outdoor Playground, Indoor Playground, administration (2 offices, Kitchenette, 1 toilet), Health guidance room, Teacher room, 2 Classrooms, 2 stair blocks.
  - First Floor: 8 Classrooms, Supervisor Room, Laboratory.
  - Second Floor: 8 Classrooms, Supervisor Room, Teacher Room, Hall.
  - Roof Floor

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Rehabilitation of Students toilets in the school where needed.
2. Repair of existing aluminum windows where needed.
3. Repair of existing wooden doors where needed.
4. Wall tiles Repair where needed.
5. Internal Paint where needed.
6. Fixing metal floor grating where needed
7. Electrical and Mechanical works are required.

Notes:

- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- We can install a ramp to provide wheelchair access to the ground floor, and there is an available hall that can be converted into a classroom for them, and there is a toilet for people with disabilities.
- One 2,000-liter water tank were installed during the war.
- 2 prefabricated units (2 plastic shower room) were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

FIRST FLOOR

Rehabilitation of Aluminum Door: Glass
Grade 2A



Rehabilitation of Wooden Door
Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Boys Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



Rehabilitation of Wooden Door – Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation Toilets: Wall Tiles – Boys Toilet



Rehabilitation Toilets: Wall Tiles – Boys Toilet



Rehabilitation Toilets: Wall Tiles – Girls Toilet



Rehabilitation Toilets: Wall Tiles – Girls Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Fixing Metal Floor Grating – Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Internal Paint: Walls -Grade 7



Internal Paint: Walls -Grade 8



Internal Paint: Walls
Grade 9



Internal Paint: Walls and Removing Internal Partitions - Concert Hall



Internal Paint: Walls - Grade 5



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Wooden Door – Grade 7



Rehabilitation of Wooden Door – Grade 7



Rehabilitation of Wooden Door – Grade 8



Rehabilitation of Wooden Door – Grade 9



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of toilets: Seat Cover-Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Seat Cover-Boys Toilets



Rehabilitation of Toilets: Faucet -Boys Toilets



Rehabilitation of Toilets: Faucet -Boys Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of toilets: Seat Cover-Girls Toilets



Rehabilitation of toilets: Seat Cover-Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Seat Cover-Girls Toilets



Rehabilitation of toilets: Seat Cover-Girls Toilets



Rehabilitation of Toilets: Faucet -Girls Toilets



Rehabilitation of Toilets: Faucet -Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Change Water Filters - Toilet



Rehabilitation drinking basin



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTICAL WORKS



GROUND FLOOR

Lighting Fixture – Playground



Lighting fixtures - Playground



Lighting Fixture – Playground



Lighting fixtures - Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Lighting Fixture – Grade 1A



Lighting Fixture – Grade 2



Lighting Fixture – Grade 2A



Lighting Fixture – Grade 2B



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Lighting Fixture – Grade 7



Lighting Fixture – Grade 8



Lighting Fixture – Grade 9



Lighting Fixture – Stair



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Lighting Fixture – Corridor



Electrical Switches : - Grade 7 -



Electrical Cache cable : Grade 8



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Continued moisture penetration may cause mold growth, peeling paint, deterioration of plaster, and damage to the wall structure and indoor air quality.	Identify and repair all cracks and water-entry points, remove damaged finishes, and apply a complete external waterproofing system.

External Wall Water Infiltration



Moisture Damage and Peeling Paint



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

NIHA Mixed Intermediate Public School

(School CERD 319)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33°35'45.17"N 35°37'34.17"E
- The building was gifted to MEHE by a private entity.
- The school has a total number of students:
  - For AM Shift: 70 Students
- The school is of approximately 800 m2 built up area.
- The school consists of 1 Block.
- Niha Intermediate public School consists of:
  - First Basement Electrical Room, Mechanical Room, Indoor playground, 2 toilet units (5 WC each), Outdoor Playground.
  - Ground Floor: 6 Classrooms, administration (1 offices, 1WC), Teacher Room, Kitchenette, Hall, 2 stair blocks.
  - First Floor: 6 Classrooms, administration (1 offices, 1WC), Teacher Room, Kitchenette, Hall, 2 stair blocks.
  - Second Floor: 6 Classrooms, administration (1 offices, 1WC), Teacher Room, Kitchenette, Hall, 2 stair blocks.
  - Third floor: 6 Classrooms, administration (1 offices, 1WC), Teacher Room, Kitchenette, Hall, 2 stair blocks.
  - Roof Floor.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Students' toilets in the school building require rehabilitation.
2. Painting works are required.
3. New Thresholds where needed.
4. Repair of existing aluminum windows where needed.
5. Repair of existing wooden doors where needed.
6. Internal and External curtain.
7. Electrical works are required.
8. Curtains replacement where needed.

Notes:

- The school shares a single building with Niha secondary school; the school occupies the First floor while the Secondary school uses the upper floors, with shared use of the playground and Toilets.
- No lift is available in the school, and the school ground floor is not accessible via a ramp.
- Installation of an accessibility ramp is not feasible
- Two 2,000-liter water tanks were installed during the war.
- Two prefabricated units were added to the building during the war.

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST BASEMENT

Rehabilitation of wooden door
Boys and Girls Toilets



Rehabilitation of wooden door
Boys and Girls Toilets



Rehabilitation of wooden door
Boys and Girls Toilets



Rehabilitation of wooden door
Boys and Girls Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden door
Boys and Girls Toilets



Rehabilitation of Iron door :Glass
Boys Toilet



Rehabilitation of Iron door :Glass – Girls Toilet



External Paint : Ceiling – Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

External Paint : Wall – Playground



External Paint : Ceiling – Playground



Supply new external Curtain – Playground



Supply new external Curtain – Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GOUND FLOOR

New Threshold -Main Entrance



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of wooden door – Class 01



Rehabilitation of wooden door – Class 02



Rehabilitation of wooden door – Class 03



Rehabilitation of wooden door – Class 03



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden door – Class 06



Rehabilitation of wooden door – Entrance door



Rehabilitation of wooden door
Entrance door



Rehabilitation of wooden door : Frame
Administration



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden door : Handle
Administration



Rehabilitation of wooden door
Administration



Rehabilitation of Iron door : Handle
Main Hall



Rehabilitation of Iron Window : Handle
Main Hall



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Painting : Walls – Main hall



Floor Tiling repair
Administartion



Rehabilitation of aluminum window: Rollers
Stair



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of aluminum window: Rollers-Stair



Internal paint : stair handrail



New internal Curtain – All Classrooms



II. ELECTICAL WORKS

FIRST FLOOR

Lighting fixtures: Lamp -Class 02



Lighting fixtures: Lamp -Class 03



Lighting fixtures: Lamp - Class 04



Lighting fixtures : Lamp -Class 05



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Electrical switches - Class 02



Electrical switches - Class 04



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Water leakage may cause paint and plaster deterioration, mold growth, unhealthy indoor conditions, and possible structural damage.	Identify and repair the source of leakage, apply proper waterproofing above the ceiling/roof, replace all damaged plaster, treat mold, and repaint the affected surfaces.
2	Cracked and detached concrete may fall and injure people. Exposed reinforcement can corrode, causing further deterioration and reducing the balcony's structural safety.	Have a structural engineer inspect the balcony, remove all loose concrete, clean and treat the exposed reinforcement against corrosion, repair it with structural repair mortar, seal the cracks, and apply proper waterproofing.

Water infiltration in stair block



Water infiltration in stair block



Cracks in balconies



Cracks in balconies



Cracks in balconies



LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Chhim Secondary Public School

(School CERD 332)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.634712322943884, 35.467926698300495
- The building is owned by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 354 Students
- The school consists of 2 Block.
- Chehim Official High School consists of:
  - Basement: Unused toilets
  - Ground Floor: 2 toilet units (6 cubicles in each), Administration, General supervisor room, Hall.
  - First Floor (Kitchen, 9 Classrooms, Small IT room, Toilet unit for teachers (3 cubicles)
  - First Floor (10 Classrooms, Laboratory, girls' toilet unit, boys' toilet unit, 2 teachers' toilet unit, Supervisor room

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Repair of existing doors where needed.
2. Repair of toilets fixtures where needed
3. New windows where needed
4. Replacement of damaged tables and chairs
5. Insulation works to solve water seepage issues on some walls/ceilings

Notes:

- No place for lift or ramp to be added in the school
- 1 water tank was provided during the war
- There are 2 water solar systems in the school
- 2 prefabricated toilets units are installed in the school
- Sewerage system of the school connected to town main line (no problem faced)

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

GROUND FLOOR

New Aluminum doors – Boys Toilets



FIRST FLOOR

Rehabilitation of wooden doors: Handle
Supervisor room



Rehabilitation of wooden partition
Room 3



Rehabilitation of Aluminum window - Room 3



Rehabilitation of Aluminum window - Room



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

New Threshold - Teacher toilets



New Mirrors – Teacher toilets



New Mirrors – Boys toilets



GENERAL WORKS

Supply of New Institutional Furniture









A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON







A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of toilets: Fixtures- Teachers' toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SECOND FLOOR

Rehabilitation of toilets: Fixture - Teachers' toilets



III. ELECTRICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Electrical Sockets - Kitchen



SECOND FLOOR

Electrical Sockets and Switches- Supervisor room



Electrical Sockets and Switches - Room 9



Electrical Sockets and Switches - Room 2



Electrical Sockets and Switches - Room 6



Uncovered/Exposed electricity panelboard - Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Deteriorating drywall and plaster due to water leakage and trapping of moisture fosters toxic mold and mildew growth, and risks long-term structural weakening.	Water proof the walls/ceilings and re-plaster/re-tile and repaint
2	Damaged sanitary fixtures can disrupt daily facility use and compromise occupant health.	Replace or repair broken toilet bowls, sinks, valves, and hardware to ensure full sanitation compliance.
3	Several circuit breakers and panelboards are installed in exposed locations without proper enclosures or covers, posing potential safety hazards.	Ensure all circuit breakers are properly enclosed in approved, weather-resistant, and secure panels or cabinets to prevent accidental contact, to comply with applicable electrical safety codes.

Water infiltartion in teachers' toilets on 2nd floor



Water infiltration in boys' toilets on 2nd floor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Chehim Third Official School Elementary Public School

(School CERD 333)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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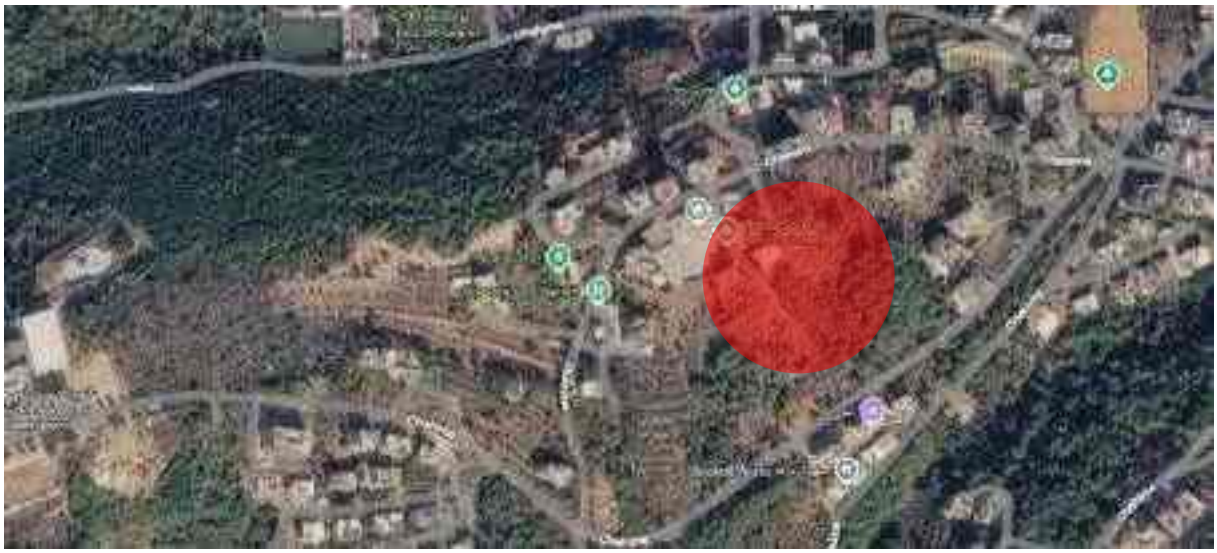
A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.62724261873969, 35.4833153072352
- The building is owned by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 560 Students
- The school consists of 1 Block.
- Chehim Third Official School-English Branch consists of:
  - Basement Floor: 2 Toilet Units (3 cubicles for Girls – 3 Cubicles for Boys)
  - Ground Floor: Administration room, Supervisor room, Medical room
  - First Floor: 16 Classrooms, 2 Toilets for teachers, kitchen, Supervisor Room, Eating room
  - Second Floor: 2 Classrooms, Laboratory

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Repair of existing wooden doors where needed.
2. Change of boards, tables and chairs where needed
3. Closet maintenance
4. Electrical works are required.
5. Repair of a lavatory

Notes:

- No lift is available in the school, but it can be executed
- The ground floor is accessible through existing ramp; however no accessible toilet is currently available.
- 2 prefabricated Toilet units are installed in the schools
- No water tanks were supplied
- Water solar system available in school
- Sewerage system of the school connected to town main line (no problem faced)
- Two speakers got unconnected need to be wired and connected.



I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Rehabilitation of wooden door: Frame - Room 1



Rehabilitation of wooden door: Frame - Room 3



Rehabilitation of wooden door: Handle - Room 18



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

New White board - Room 11



New White board - Room 12 and 13



Maintenance of closets - Room 12



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Maintenance of closets - Room 12



New wooden table - Kitchen



Supply of New Institutional Furniture





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR:

Rehabilitation of toilets: 1 Lavatory - Room 17





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTRICAL WORKS



FIRST FLOOR:

Change/Repair electric socket/switch in Room 7



Change 2 electric sockets/switches in Room 6



Change 2 electric sockets/switches in Room 6



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit, no risks were encountered

No.	Risk	Recommendation
1	---	---.
2	---	---
3	---	---
4	---	---

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Mazboud Mixed Intermediate Public School

(School CERD 345)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

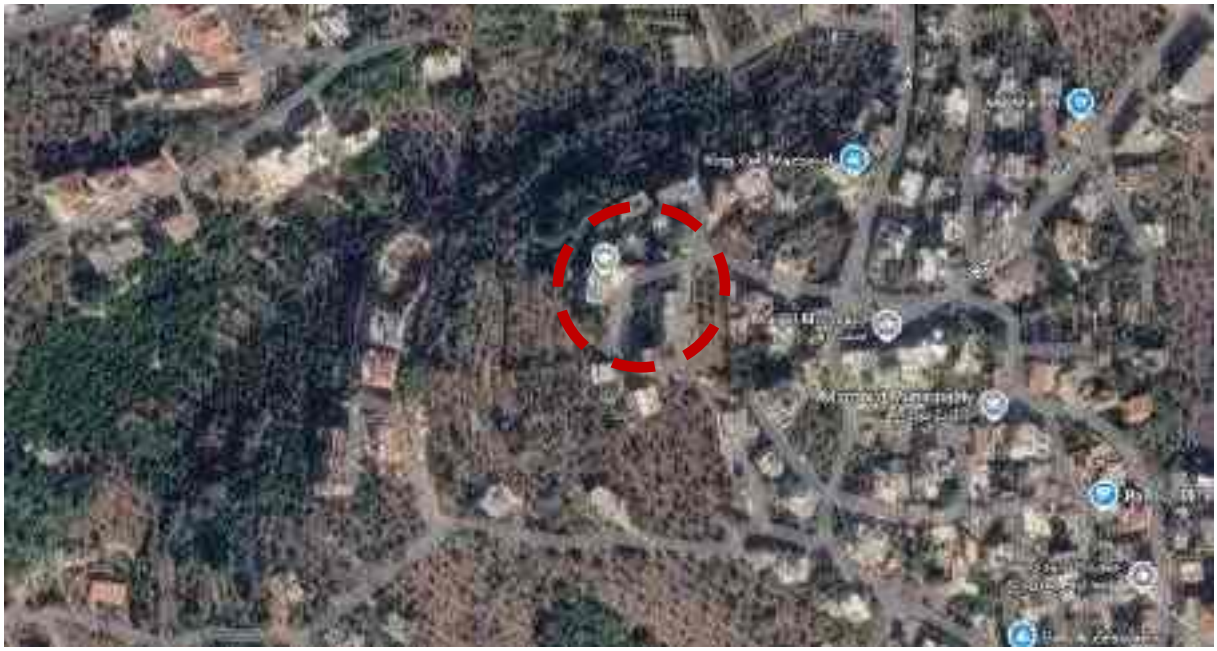
BRIEF DESCRIPTION:

- Site Coordinates: 33.61190498545667, 35.47754666708327
- The building is rented by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 174 students
  - For PM Shift: 203 students
- The school consists of 1 Block.
- Mazboud Mixed Intermediate Public School consists of:
  - Basement Floor: 2 Toilet Units (1 Boys toilet and 1 girl toilet), 2 Classrooms, Laboratory, Indoor Playground
  - Ground Floor: Administration room, Administration toilet, Supervisor room, Techers' room, Photography room, 2 teachers' toilets units, 3 Classrooms, Kitchen, Library, Art room, Toilet unit for special needs
  - First Floor: 6 Classrooms, Library

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Repair of existing wooden doors where needed.
2. Painting works
3. Change of boards, tables and chairs where needed
4. Replacement of broken windows
5. Closet maintenance
6. Electrical works are required.
7. Repair of toilet fixtures (WC, lavatory) where needed
8. Maintenance and cleanup of playground and garden

Notes:

- No lift is available in the school
- The school is not accessible via a ramp
- No prefabricated Toilet units are installed in the schools
- 2 water tanks were supplied
- Sewerage system of the school connected to town main line (no problem faced)

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT FLOOR

Rehabilitation of Cabinet – Boys Toilet



Rehabilitation of Wooden Door – Boys Toilet



Repalce Door with a New Wooden Door
Boys Toilet



Rehabilitation of Wooden Door
Girls Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Closet - Corridor



Rehabilitation of Separator Aluminum - Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Curtain - Room 1



Internal Curtain - Room 2



Internal Curtain - Room 3



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Board- Room 3



Rehabilitation of White Board - Room1



Rehabilitation White Board - Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Closet Maintenance - Room 4



Internal paint - Room 4



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal paint – Room 4



Internal paint- Corridor



Internal Curtain - Room 5



Internal Curtain - Room 5



Internal Curtain - Room 7



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Aluminum Window: Glass – Room 8



Rehabilitation of Wooden Door - Room 7



Rehabilitation of Wooden Door - Room 7



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Replace Broken Chairs – All Classrooms



Replace Broken Tables – All Classrooms



II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT FLOOR:

Rehabilitation of Toilets: Lavatory – Boys Toilet



Rehabilitation of Toilets: Lavatory
Boys Toilet



Rehabilitation of Toilets: Lavatory
Boys Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Toilets: Hose Bib
Boys Toilet



Rehabilitation of Toilets: WC Fixture
Boys Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTRICAL WORKS



BASEMENT FLOOR

Electrical Socket – Boys Toilet



Maintenance of Electricity: Kindergarten Rooms



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR:

Electrical Socket and Switch - Room 4



Electrical Socket and Switch - Room 8



Repair of Lighting Fixture - Corridor



Install Cash Cable - Room 7



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Repair of projector storage box glass – Room 9



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Risk of fires or harm due to exposed electric cables	Must be properly covered and organized.
2	Deteriorating drywall and plaster due to water leakage and trapping of moisture fosters toxic mold and mildew growth, and risks long-term structural weakening.	Water proof the walls/ceilings and re-plaster/re-tile and repaint
3	Damaged sanitary fixtures can disrupt daily facility use and compromise occupant health.	Replace or repair broken toilet bowls, sinks, valves, and hardware to ensure full sanitation compliance.

Water Proofing : Boys' Toilets and Girls' Toilets
Basement Floor



Water Proofing : Boys' Toilets and Girls' Toilets – Basement Floor



Water Proofing: KG Class – Basement Floor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Water Proofing: KG Class – Basement Floor



Water Proofing: Room 7 – Ground Floor



Water Proofing: Staircase– Ground Floor



Water Proofing: Room 9 – Ground Floor



Rehabilitation of KG Garden



Rehabilitation of KG Garden



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of KG Garden



Rehabilitation of KG Garden



Rehabilitation of KG Garden



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Maintenance of KG Ramp



Rehabilitation of Games – KG Playground



Rehabilitation of ExternaL Pipe – KG Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Sibline Mixed Intermediate Public School

(School CERD 350)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.6239, 35.4354
- The building is rented by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 132 Students
- The school consists of 1 Block.
- Sibline Official Middle School Mixed consists of:
  - Basement (4 girls' toilets, 4 boys' toilets)
  - Ground Floor (Playground, Principal's office, Supervisor Office, 5 Classrooms, Small IT room, 1 Toilet for administration, 2 WC for KG)
  - First Floor (8 Classrooms, Laboratory, 3 toilets for teachers, 3 toilets for students (2 boys toilets,1 girl toilet, Supervisor room)

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Repair of existing wooden door handles and locks where needed.
2. Repair of faucet
3. Maintenance of some kitchen cabinets
4. Window sieves where needed
5. Insulation works to solve water seepage issues on some walls

Notes:

- No place for lift or ramp to be added in the school
- No water tanks were provided during the war
- No prefabricated toilets units are installed in the schools
- Sewerage system of the school connected to town main line (no problem faced)
- The director requests to make some finishing works for beauty

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT FLOOR

Rehabilitation of Wooden Doors: locks
Girls Toilets



Rehabilitation of Wooden Doors: locks
Boys Toilets



Rehabilitation of Wooden Doors: Handle
Boys Toilets



Rehabilitation of Wooden Doors: Handle
Cafeteria



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Wooden Doors: Handle
Interior Playing Room



FIRST FLOOR

Rehabilitation of Wooden Doors: Handle
Kitchen



Rehabilitation of Wooden Cabinet
Kitchen



Rehabilitation of Wooden Cabinet
Kitchen



Note:Change window sieve for room EB7 and room EB8 (1 in each) dimensions: 144 cm x 88 cm

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT FLOOR

Rehabilitation of Toilets: Lavatory
Boys Toilets



III. ELECTRICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Deteriorating drywall and plaster due to water leakage and trapping of moisture fosters toxic mold and mildew growth, and risks long-term structural weakening or wall collapse.	Locate and stop the underlying source of water ingress/leakage, strip away compromised wall material, treat for mold, and re-plaster/re-tile using mold-resistant, waterproof materials, or insulate the roof
2	Faulty water piper on roof causes water to pool on the roof surface or spill directly along exterior and interior walls, which causes severe ceiling leaks, and fosters toxic mold growth.	Repair or replace fractured or corroded pipe with weather-resistant PVC or cast-iron piping

Repair of water seepage damage in room EB1 on GF, and EB4 on FF by insulating walls or insulation of roof as recommended by school director





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Maintenance or replacement of roof pipe fixation



Maintenance of the 3 water solar systems found on roof



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Al-Wardaniyeh Mixed Intermediate Public School

(School CERD 351)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.630583297092166, 35.443661759540184
- The building is rented by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 270 Students
  - For PM Shift: 120 Students
- The school consists of 1 Block.
- Al-Wardaniyeh Mixed Intermediate Public School consists of:
  - Basement Floor: Electrical room, Storage
  - Ground Floor: 2 Supervisor's rooms, Principal's office, 2 teacher's rooms, Kitchen, 4 toilets for students (2 girls toilets and 2 boys toilets), 4 toilets for teachers(2 girls toilets and 2 boys toilets), Outdoor playground
  - First Floor: 4 classrooms for KG, 5 elementary classrooms, Library, 1 toilet, medical room
  - Second Floor: 9 Classrooms, Laboratory, toilet

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Sanitary maintenance where needed
2. Repair of kitchen cabinets
3. Repair/Maintenance of existing aluminum windows where needed (31 windows)
4. Painting works.
5. Tiles Repair where needed.
6. Electrical works are required.

Notes:

- No lift is available in the school, but can be executed in the location of electrical room, so electrical room will have to be moved to another location if lift is executed.
- The ground floor can be accessible by executing a ramp
- No prefabricated Toilets units are installed in the schools
- One water tank supplied during the war
- Sewerage system of the school connected to town main line (no problem faced)

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BASEMENT FLOOR

Internal Paint : Ceiling - Electrical room



Rehabilitation Steel Window: Glass - Storage Room



Rehabilitation of Steel Door:Glass - Storage Room



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation Sink - kitchen



Tile Rubbring - Kitchen



Tile Rubbring - Kitchen



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Tile Rubbring – Stair Steps



Install kitchen Cabinet



Install kitchen Cabinet



Replace 3 Bricks - KG Playground



II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Kitchen Sink Maintenance (Water is Flowing to the Ground)



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

FIRST FLOOR

Repair of Sink and Water Proofing - Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTRICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Electrical room issues causing fire risks



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Risk of fire or explosion due to electrical room problems, which has already caused fires three times. and due to lack of fire extinguishers	Fix and adjust the electrical wires in the room to prevent future fires. Addition of fire extinguishers as per codes and standards.
2	Structural risk due to two very critical columns and the fence which are critically unstable and may fall at any time	Urgent structural assessment and reinforcement/replacement of columns and repair/replacement of fence
3	Risk of injury due to cracks in the roof floor and parapets which might cause concrete falling from ceiling	Repair cracks as per engineer's recommendations to prevent falling debris
4	Deflection issues across several floors	Structural assessment is required to avoid further floor and wall cracks
5	Risk of injury due to broken stair step and exposed steel rebars in 2nd floor	Repair the damaged stair step, and the remove the exposed rebars
6	Deteriorating drywall and plaster due to water leakage fosters toxic mold and mildew growth, and risks long-term structural weakening or wall collapse.	Locate and stop the underlying source of water ingress/leakage, and re-plaster/re-tile using mold-resistant, waterproof materials
7	Risk of injury due to deteriorated fence wall	New fence wall on playground

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Fence – Playground



Rehabilitation of Fence - Playground



Rehabilitation of Fence – Playground



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Concrete Repair – Ground Floor



Concrete Repair – Ground Floor



Isolation Ceiling needed – Teacher Toilets



Isolation Ceiling needed – Teacher Toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Major Issue in Displacement-Ground Floor Corridor



Wall and Floor Displacement - Supervisor's Office



Waterproofing for Ceiling – First floor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Insulation/Waterproofing and Repaint
Classroom B1 – Second Floor



Insulation/Waterproofing and Repaint
Classroom B1 – Second Floor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Insulation/Waterproofing and Repaint
Corridor – Second Floor



Insulation/Waterproofing and Repaint
Corridor – Second Floor



Remove Reinforcement Steel for Safety- Second Floor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Cracks: Parapet-Roof



Rehabilitation of Cracks: Parapet-Roof



Rehabilitation of Cracks: Parapet-Roof



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Cracks: Roof Floor



Rehabilitation of Cracks: Wall - Roof



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Concrete Slab Balcony– Roof



Rehabilitation of Concrete Slab Balcony– Roof



Demolition and New fence – PlayGround



Demolition and New fence Fence – PlayGround



LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Lebaa Secondary Public School

(School CERD 1108)



Assessment & Preliminary Design Report

August 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.5456959, 35.4464901
- The building is owned by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 61 Students
- The school is of approximately 1200 m^2 built up area.
- The school consists of 1 Blocks.
- Lebaa Secondary Public School consists of:
  - Ground Floor: 2 Toilet Units (8 cubicles for Girls – 8 Cubicles for Boys), Indoor Playground.
  - First Floor: 2 Toilets Kitchen, Health room, 2 rooms for Administration works, Laboratory,
  - Second Floor: Teacher room ,7 Classrooms, 2 Toilet Units (1 cubicles for Girls – 1 Cubicles for Boys), library, 2 supervisor's rooms

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Toilets in the school building require rehabilitation.
2. Repair of existing aluminum windows where needed.
3. Painting works.
4. Repair of existing wooden doors where needed.
5. Tiles Repair where needed.
6. Electrical works are required.
7. All existing curtains require proper fixing
8. Metal entrance gate require repair.
9. The existing external metal fence requires repair.
10. The existing metal steel grating requires proper fixing, and some grilles are missing.

Notes:

- No water tanks supplied during the war
- The lift is currently out of service and requires maintenance
- The sewerage system requires inspection and repair due to sewage overflow in the toilets

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS



GROUND FLOOR

Tiling repair: Boys Toilet



Tiling repair: Boys Toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden doors: locks
-Girls Toilets



Rehabilitation of wooden doors: locks
-Boys Toilets

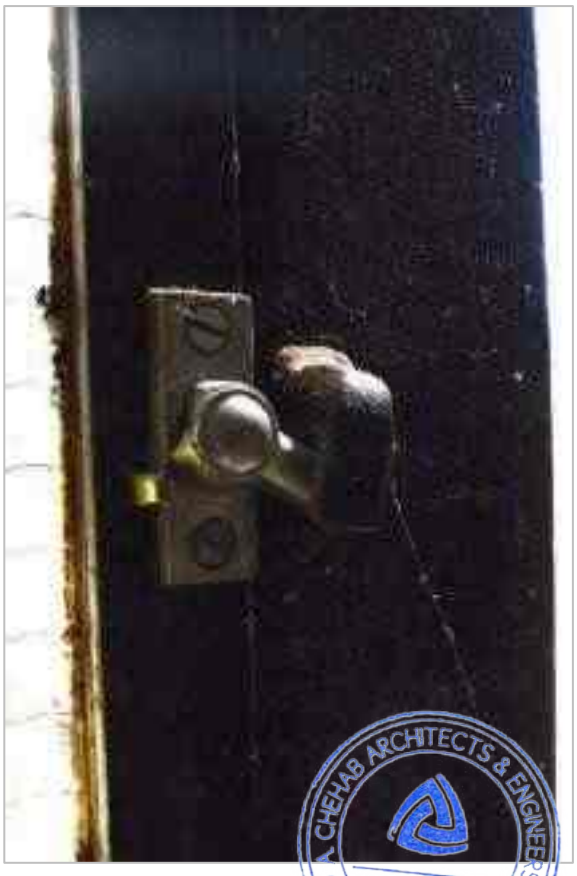


A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of metal doors: lock and handle – Building Entrance







CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint: – Staircase



Internal Paint: – Near Toilets



FIRST FLOOR

Rehabilitation of wooden doors: lock and handles – Administration



Rehabilitation of wooden doors: lock and handles – laboratory for both the external and internal doors





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of the aluminum entrance door to the floor: lock



SECOND FLOOR

Internal Paint: Walls – Corridor



Rehabilitation of wooden doors: Lock – All doors













A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON







A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Broken Glass- Corridor



Tiling repair -Teacher’s toilet



Tiling repair -Teacher’s toilet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Curtain – All Classrooms









A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

ROOF FLOOR

Rehabilitation of metal doors: Lock and Glass



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

EXTERNAL WORKS

Rehabilitation of fence: Chain Link-Playground





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of Steel Grating Cover to Drainage Channel - Playground.





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS



GROUND FLOOR

Rehabilitation of Drinking Basin: New Taps



Testing and Rehabilitation of Toilet Drainage System to Address Flooding- Boys toilets





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON



SECOND FLOOR

Complete basin with mixer taps requires repair: teacher's toilet

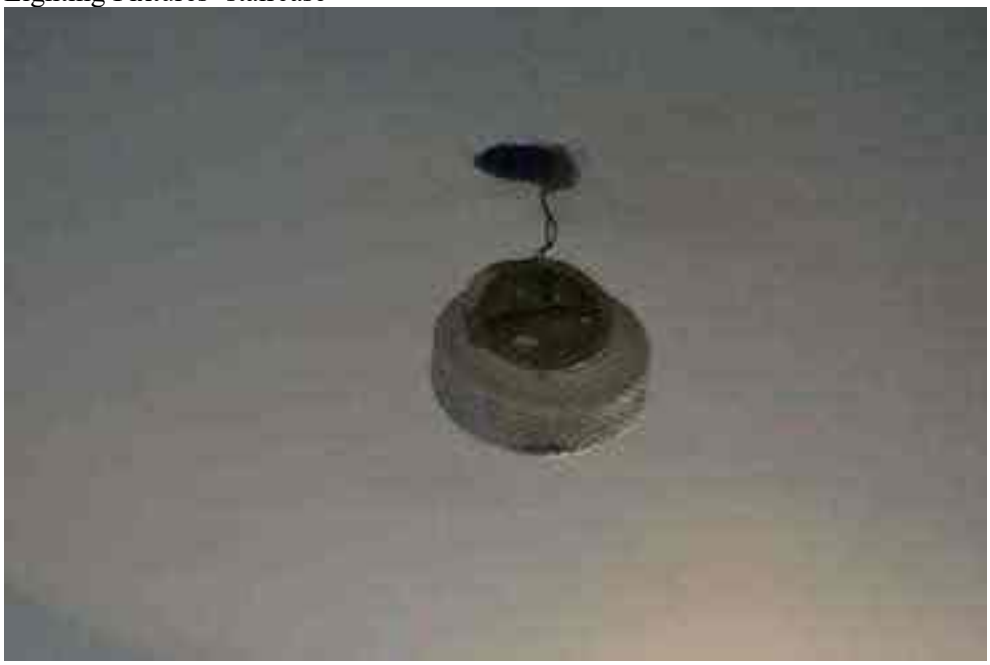


III. ELECTRICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Lighting Fixtures- staircase



Sockets and switches- boy's Toilet



Sockets and switches – Staircase



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

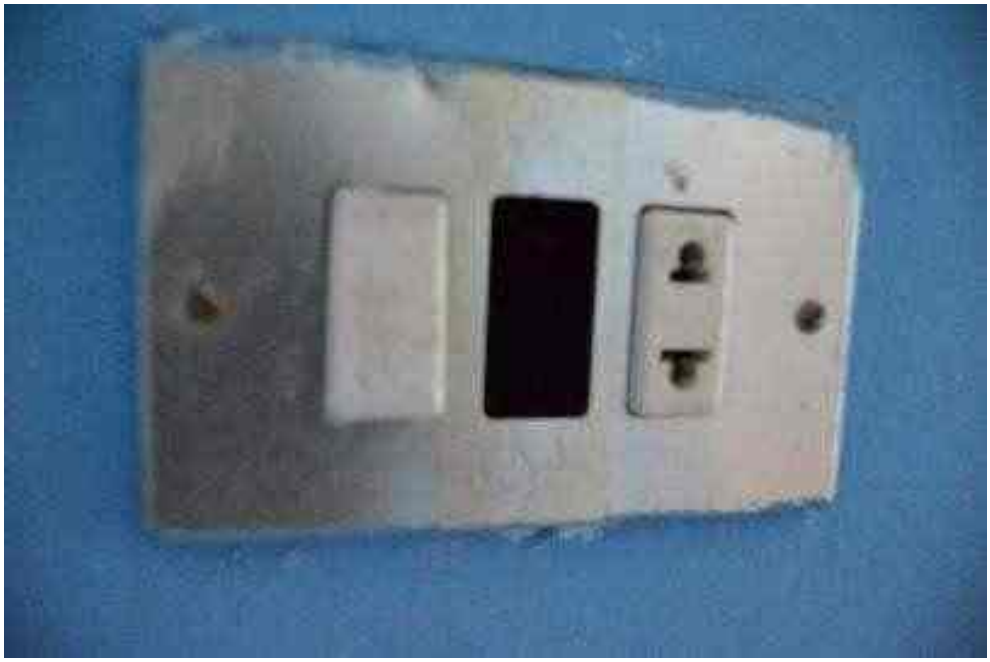
FIRST FLOOR

Sockets and switches: Laboratory



SECOND FLOOR

Sockets and switches: Class 3



Sockets and switches: Library



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Lighting Fixtures: Classrooms



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	Outside light projectors are broken	Replacement of projectors to provide safe and clear environment

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Jezzine Secondary Public School

(School CERD 1117)



Assessment & Preliminary Design Report

September 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

BRIEF DESCRIPTION:

- Site Coordinates: 33.5456959, 35.4464901
- The building is owned by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 75 Students
- The school is of approximately 2300 m2 built up area.
- The school consists of 1 Blocks.
- Jezzine Secondary Public School consists of:
  - Ground Floor: 2 supervisor's room, teacher's room, Library, teachers' toilets (2 cubicles) , 2 Toilet Units (9 cubicles for Girls – 9 Cubicles for Boys), Indoor Playground.
  - Lower ground floor: mechanical room, activity room, toilets (2 cubicles for girls, 2 cubicles for boys)
  - First Floor: Kitchen, Health room, 2 rooms for Administration works, Laboratories, director room, 5 classrooms, Toilet Units (2 cubicles for Girls – 2 Cubicles for Boys)
  - Second Floor: Teacher room ,5 Classrooms, Toilet Units (2 cubicles for Girls – 2 Cubicles for Boys), medical room, 2 supervisor's rooms, computer room, exam room

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

SITE LOCATION:





A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Toilets in the school building require maintenance.
2. Painting works.
3. Existing vinyl require repair where damaged
4. Repair of existing wooden doors where needed.
5. Tiles Rubbing where needed.
6. Electrical and Mechanical works are required.
7. All existing curtains require proper fixing

Notes:

- No lift is available in the school.
- Sewerage system of the school connected to town main line (no problem faced).
- Water tank is added since 2024 war.
- Schools is not accessible for disable and no classrooms and toilets are accessible

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

LOWER GROUND FLOOR

Rehabilitation of wooden doors-toilets



Clean and Rub the Existing Floor Tiles and Skirting – activity room



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal paint – Activity room



Internal paint - Near toilets



GROUND FLOOR

Rehabilitation of wooden doors
Girls toilets



Rehabilitation of wooden doors
Boys toilets



Rehabilitation of wooden doors – Girl's toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Rehabilitation of wooden doors – Boy's toilets



Rehabilitation of wooden doors – Boy's toilets



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Tiles Rubbing - Corridor



Tiles Rubbing - Supervisor’s room



Tiles Rubbing - girls toilets



Tiles Rubbing - girls toilets



Repair floor vinyl - Library



Internal Curtain - Library



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint - Corridor





FIRST FLOOR

Rehabilitation of wooden doors - Class 103



Rehabilitation of wooden doors – Girls Toilets



Rehabilitation of wooden doors – Boys Toilets



Internal Paint: – Staircase



Internal Paint: – class 104



Internal Paint: – Corridor



SECOND FLOOR

Rehabilitation of wooden doors
Girls toilet



Rehabilitation of wooden doors:
Boys toilet



Rehabilitation of wooden doors
Classroom 202



Rehabilitation of wooden doors:
Classroom 205



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

New Mirror – Boys toilet



Internal Paint: Walls – Corridor



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

Internal Paint: Walls – Classroom 206



Internal Paint: Walls – Classroom 206



Internal Paint: Walls – stair case



Internal Paint: Walls – stair case



EXTERNAL WORKS

Repair tiled benches – Playground



External paint – Roof Parapet



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

II. MECHANICAL WORKS

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

GROUND FLOOR

Rehabilitation of Drinking Basin: New Taps
Testing and Rehabilitation of filter



A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

III. ELECTRICAL WORKS



GROUND FLOOR

Sockets and switches - Library



SECOND FLOOR

Sockets and switches - Class 202



RISKS AND RECOMMENDATIONS

During our site visit , no risks are encountered.

No.	Risk	Recommendation
1	---	---
2	---	---
3	---	---
4	---	---

LEBANON EMERGENCY ASSISTANCE PROJECT (LEAP)

Tender Preparation and Construction Supervision Consultant for Shelters

(Batch 5-Lot 1)

Jezzine Intermediate Public school

(School CERD 1118)



Assessment & Preliminary Design Report

August 2026

ABDULWAHED CHEHAB
CONSULTING ENGINEERING OFFICE

A. CHEHAB ARCHITECTS & ENGINEERS
COMMON SEAL
REPUBLIC OF LEBANON

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BRIEF DESCRIPTION:

- Site Coordinates: 33.322257 35.350278
- The building is owned by Ministry of Education and Higher Education.
- The school has a total number of students:
  - For AM Shift: 70 Students
- The school is of approximately 1200 m^2 built up area.
- The school consists of 1 Blocks.
- Jezzine Intermediate Public school consists of:
  - Lower ground floor: Basketball court and toilets (6 for boys and 6 for girls)
  - Ground Floor: Administration room, teachers room, 5 classes, teacher's toilet and kitchen
  - First Floor: 5 classes and theater room

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SITE LOCATION:





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REHABILITATION WORKS

The items that require repair that were encountered during our site visit consist of the following:

1. Toilets in the school building require rehabilitation.
2. Repair of existing glass windows where needed.
3. Painting works.
4. Repair of existing wooden doors where needed.
5. Tiles Repair where needed.
6. Electrical works are required.
7. Curtains require proper fixing where needed

Notes:

- No lift is available in the school
- No water tanks supplied during the war
- The ground floor is accessible via an existing ramp and includes an accessible classrooms and toilet.
- Sewerage system of the school connected to town main line (no problem faced)

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I. CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS

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LOWER GROUND FLOOR

Internal Paint WC: Ceilings -Boys' toilet



Internal Paint WC: Ceilings -Girls' toilet



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Rehabilitation of wooden doors - Girl's toilets



Rehabilitation of metal doors-Girls toilets



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GROUND FLOOR

Rehabilitation of wooden door-Class 5



Internal Paint- Staircase



Internal Paint: – Corridor



Internal Paint: – kitchen



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Windows handle: – corridor



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FIRST FLOOR

Rehabilitation of aluminum doors- Room 10



Rehabilitation of aluminum doors- Room 10



Internal Paint: – Staircase



Cleaning of Interior stone cladding - Corridor



Rehabilitation of Aluminum Window: Glass - Corridor



Internal Curtain- Theatre



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Internal Curtain- Theatre



Tile Repair- Theatre



ROOF FLOOR

Rehabilitation of metal doors: Lock



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EXTERNAL WORKS

Rehabilitation of metal doors – lock



Painting external wall



Rehabilitation of external playground



Rehabilitation of Flower bed- Playground



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II. MECHANICAL WORKS



LOWER GROUND FLOOR

Rehabilitation of Drinking Basin: New Taps



Rehabilitation of toilet: Flash Tank cover – Girl's toilets





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Rehabilitation of all toilets: Shower Head and Bib hoses



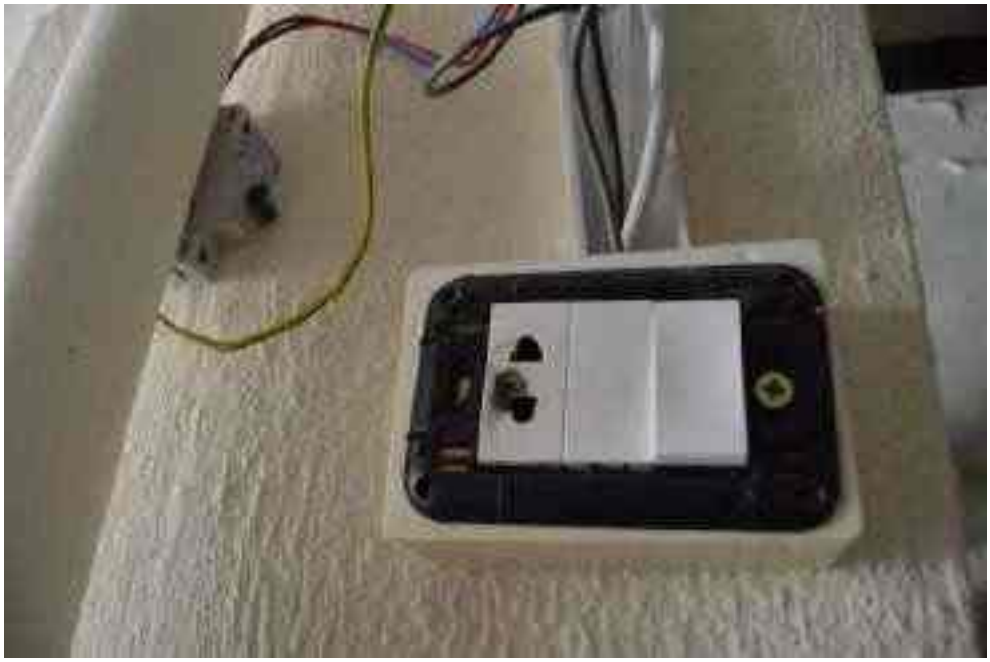
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III. ELECTRICAL WORKS



LOWER GROUND FLOOR

Sockets and switches- External toilets wall



Lighting Fixtures – TOT Shed



RISKS AND RECOMMENDATIONS

During our site visit the below points were encountered:

No.	Risk	Recommendation
1	---	---
2	---	---
3	---	---
4	---	---