

ECODIT Beirut LLC Sarkis Building, 6th floor Zalka, Lebanon T: 81-397595 www.ecodit.com

REQUEST FOR EXPRESSIONS OF INTEREST PRE-QUALIFICATION OF CONSTRUCTION CONTRACTORS

Project Description:	Construction of organic waste composting stations in three locations:
	(1) Anfeh, Koura District(2) Ansariyeh, Saida District(3) Ras el Matn, Matn District
Purpose of this EOI:	Pre-qualification of Construction Contractors
Project:	Diverting Waste by Encouraging Reuse and Recycling (DAWERR)
Funding Agency:	U.S. Agency for International Development (USAID Lebanon)
Deadline for submitting questions:	July 31, 2023
Deadline for submitting expressions of interest:	August 14, 2023
Reference Number:	DAWERR-2023-EOI-3

A. <u>Purpose of this</u> Request for EOIs

ECODIT Beirut LLC (henceforth ECODIT) is soliciting expressions of interest and submission of pregualification data (Phase 1) from gualified Bidders/Construction Contractors for the construction of an organic waste composting station, including land preparation works, in (1) Anfeh, Koura District, (2) Ansariyeh, Saida District, (3) Ras el Matn, Matn District - see Attachment A. A Technical Evaluation Committee (TEC) formed by ECODIT will evaluate all Expressions of Interest (EOIs) received and short-list up to five bidders/contractors based on the eligibility for prequalification and the evaluation factors described in this request for EOIs. Subsequently, for each town, ECODIT will issue a separate Request for Proposal (RFP; Phase 2) to all short-listed contractors, inviting them to submit detailed quotes in response to final tender documents for that town. ECODIT may issue the three RFPs for the construction works in the three towns in a staggered fashion (i.e., spread over time). For each town, the TEC will evaluate the offers received based on the evaluation criteria that will be listed in the RFP and select one contractor for the construction works for that town. All short-listed contractors will be encouraged to bid on all three RFPs. ECODIT may award more than one construction contract to the same contractor -for example, two construction contracts for two of the three towns, or three construction contracts for the three towns.

B. Background

ECODIT is implementing the USAID Diverting Waste by Encouraging Reuse and Recycling (DAWERR) Activity (2020-2025), which aims to improve the social, environmental and economic well-being of the Lebanese citizens through establishing sustainable and replicable integrated solid waste diversion and valorization solutions in rural areas of Lebanon. DAWERR has the following three objectives:

- 1. Build the capacity and commitment of municipalities to provide improved SWM services either directly or indirectly;
- 2. Empower communities to sort at the source and participate actively in various stages of the Recycling Value Chains (RVCs); and
- 3. Develop successful business models that create green economic opportunities and generate net incomes along the value chains.

DAWERR is developing sustainable composting value chains for organic waste and strengthening existing RVCs for recyclable materials in four pilot municipalities, and will support replication of the successful pilots in additional municipalities across Lebanon. In addition, DAWERR will develop integrated solid waste management solutions in three unions or clusters of municipalities.

C. Scope of Work for the Construction Works

This Request for Expressions of Interest, and the subsequent RFP, concern the construction works for the three composting stations in Anfeh, Ansariyeh and Ras el Matn. DAWERR will support Anfeh, Ansariyeh and Ras el Matn Municipalities and their local community to develop sustainable composting value chain for organic waste, including source separation, collection, and composting of organic waste through the construction of small-scale, low-tech, low-cost composting stations, creating local demand for the compost produced for agricultural, landscaping, or other uses as soil conditioner/fertilizer supplement.

In Anfeh and Ras el Matn, DAWERR is planning to install Container Composters that will be fabricated separately by another contractor, who will bring the container composters to the site and install them after the construction works have been completed. For Ansariyeh, DAWERR is planning to build composting bunkers. Exhibit 1 outlines the scopes of works (SOW) for the municipality, the construction contractors, and other DAWERR contractors to complete the construction of the composting station in each town. The Construction Contractor will be expected to take possession of the site and begin construction, noting that the municipality and other DAWERR contractors will contribute to construction works as detailed in Exhibit 1.

Construction SOW Implementing Entity	Anfeh Composting Station	Ras el Matn Composting Station	Ansariyeh Composting Station
Municipality	 Topographic surveys during the project implementation, where needed. Planting trees all around the project's fence 	 Topographic surveys during the project implementation, where needed. Establishing the access road leading to the project's site. Planting trees all around the project's fence 	 The topographic surveys during the project implementation, when needed. Rehabilitation of the access road leading to the project's site. The construction of cyclopean concrete walls for the existing canal adjacent to the site. Planting trees all around the project's fence.
Construction Contractor	 Excavation, earth works and land preparation including base coarse layer under slabs on grade and under asphalted areas, excavation of the building's foundations, etc. Construction of cyclopean concrete walls for the project's fence. Reinforced concrete works including blinding concrete, foundations, tie beams, columns, walls, channels and pits, slab on grade, slabs etc. Steel works including the construction of a steel hangar, Blocks A, steel fence, steel doors, the project's gate, etc. Finishing for the Block A including partition – plastering – painting - tiling – doors- windows, etc. 	 Excavation, earth works and land preparation including base coarse layer under slabs on grade and under asphalted areas, excavation of the building's foundations, etc. Construction of cyclopean concrete walls for the project's fence. Reinforced concrete works including blinding concrete, foundations, tie beams, columns, walls, channels and pits, slab on grade, slabs etc. Steel works including the construction of a steel hangar, Blocks A, steel fence, steel doors, the project's gate, etc. Finishing for Block A and B including partition - plastering - painting - tiling – doors- windows, etc. 	 The earth works and land's preparation including excavation works, base coarse layer, etc. The reinforced concrete works of blocks A & B including blinding concrete, foundations, tie beams, channels and pits, slab on grade, columns, retaining walls, cover slabs, etc. The steel works including: the construction of Block A steel hangar, The steel fence, the project's gates, etc. Finishing for Block A, B including partition, plastering, painting, waterproofing, doors, windows, tiling, etc.

EXHIBIT 1. INDICATIVE CONSTRUCTION WORKS TO BE COMPLETED BY THE CONSTRUCTION CONTRACTOR AND OTHER ENTITIES IN EACH TOWN

Construction SOW	Anfeh Composting Station	Ras el Matn Composting Station	Ansariyeh Composting Station
Implementing Entity			
	 Mechanical installation including drainage and water supply networks, air conditioning, firefighting, sanitary fixtures for the reception's toilet, etc. Electrical installation including power, lighting and low current, networks, lightening, earthing, panel boards, etc. Landscaping works including the asphalting of the external yards, etc. 	 Supply and installation of a prefabricated unit dedicated for the reception area with all needed mechanical and electrical installation. Mechanical installation including drainage and water supply networks, air conditioning, firefighting. Electrical installation including power, lighting and low current, networks, lightening, earthing, panel boards, etc. Landscaping works including the asphalting of the external yards, etc. 	 Electrical installation including power, lighting and low current, networks, earthing, etc. Mechanical installation including drainage and water supply networks, sanitary fixtures for the reception's toilet, etc. Composting units' mechanical and electrical networks. Landscaping works including the asphalting of the external yards, etc.
Other DAWERR Contractors	 Fabrication (offsite) and installation (onsite) of three container composter 40' with all related equipment Installation of one screening machine to screen the compost produced. Installation of a wastewater treatment unit. Installation of a generator for the electrical power supply. Installation of a Solar Photovoltaic (PV) system for the Electrical power supply. 	 Fabrication (offsite) and installation (onsite) of three container composter 40' with all related equipment Installation of one screening machine to screen the compost produced. Installation of a wastewater treatment unit Installation of a generator for the electrical power supply. Installation of a Solar Photovoltaic (PV) system for the Electrical power supply 	 Installation of one screening machine to screen the compost produced. Installation of a wastewater treatment unit Installation of a generator for the electrical power supply. Installation of a Solar Photovoltaic (PV) system for the Electrical power supply.

Total estimated cost for the construction contractor's SOW for the composting station in one town is in the range of \$170,000- \$315,000. Actual costs will depend on the town and the final design and specs for the works to be completed at that town. In the RFP for each town, ECODIT will provide more details on the scope of work and needed submissions (work schedule, detailed quotes, etc.) from the short-listed contractors. ECODIT will arrange site visits by interested prospective bidders.

D. Eligibility to Pre-Qualify

To be eligible to submit an EOI in response to this Request for EOIs and be considered for prequalification, a construction contractor must:

- 1. Be classified in the second category and above of buildings and public works classification at the Ministry of Public Works and Transport¹, and provide a proof of such classification;
- 2. Be registered in the Commercial Registry with a valid registration, and provide a copy of registration showing validity through September 30, 2023 or beyond;
- 3. Be registered with the Directorate of Value Added Tax (VAT) and provide a copy of the certificate of registration;
- 4. Operate a non-bankrupt business and provide (1) a non-bankruptcy statement issued by the competent bankruptcy court, and (2) a statement of the Bidder that he/she is not under judicial liquidation, issued by the Commercial Court; both statements should be dated no more than six months before the deadline for submitting the EOI;
- 5. Have a Professional Liability Insurance Policy with coverage for at least \$500,000 for any one claim and \$1,000,000 in the aggregate and provide a copy of it, or provide a signed Commitment letter to obtain such insurance prior to contract execution;
- 6. Provide a signed Commitment letter to obtain a Contractor's All Risk (CAR) insurance policy, Contractor General Liability Insurance policy, Workers' Compensation Insurance (all-in-one or separate policies) prior to contract execution ; and
- 7. Have implemented at least one similar project worth at least \$100,000 successfully in the past three years and provide relevant supporting documentation.

E. Instructions for Preparing and Submitting Questions and Expressions of Interest

Questions

All interested bidders are encouraged to submit questions by email to the attention of Mrs. Carla Hammoud (<u>chammoud@dawerr.org</u>) with a copy to Mr. Jad Sakr (<u>jsakr@dawerr.org</u>) by the deadline included on page one and Section G of this document. ECODIT will compile all questions and provide answers in an updated Request for EOIs that will also be posted on Daleel Madani and ECODIT website as per timeline included in Section G.

Expressions of Interest

To be considered for the short list, interested bidders must provide the information requested in Section D (Eligibility to Pre-Qualify) and in Attachment A, and email the information together with a cover letter, to the attention of Mrs. Carla Hammoud (<u>chammoud@dawerr.org</u>) with a copy to Mr. Jad Sakr (<u>jsakr@dawerr.org</u>) by the deadline included on page 1 and Section G of this

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document, and submit **soft copies on a flash drive** at ECODIT office, to the attention of Mrs. Carla Hammoud, at the following address:

Mrs. Carla Hammoud Compliance and Grants Specialist USAID-funded DAWERR Activity ECODIT Beirut LLC Sarkis Building, 6th floor Zalka, Lebanon

The cover letter shall be signed by a person duly authorized to sign on behalf of the contractor in which the contractor expresses its desire to participate in the tender, acknowledges that he/she has studied the documents of the tender file, and expresses its willingness to adhere precisely and faithfully to all its conditions.

Expressions of Interest must be received at the above address by no later **than Monday August 14, 2023, no later than 5:00 PM beirut time.** Expressions of Interest or any supporting prequalifications documents received after this deadline will not be accepted. No phone or email inquiries about this Request for EOIs will be accepted. ECODIT will post this Request for EOIs and future updates on the Daleel Madani website under the Call for Tenders page.

All Expressions of Interest submitted by Bidders in response to this Request for EOIs will be treated as confidential documents, but any hard copies will not be returned. Each Bidder will bear all costs and expenses associated with the preparation and submittal of the pre-qualification package, including the provision of any Supplemental Information that may be requested. If a Bidder knowingly makes a misrepresentation in submitting information to ECODIT, such misrepresentation may be sufficient ground for denying prequalification to that Bidder, rescinding the Bidder's prequalification, rejecting a Bidder or rescinding an award of a Subcontract or terminating the Subcontract itself.

F. Evaluation Factors for Pre-Qualifying Bidders

The TEC will evaluate all EOIs received against the factors listed in the table below, which mirror the instructions for preparing expressions of interest contained in Attachment A. The TEC then will rank all EOIs according to the total score received and short list the top-ranking bidders that receive a total technical score of 70 or more.

EOI Evaluation Factors (based on Attachment A)	Score (points)
Overall capabilities and qualifications of the Bidder	20
Project references and past performance	15
Key personnel	15
Method Statement	20
Unit Price Breakdown	30
Total Sco	re 100 points

G. Conflict of Interest

ECODIT reserves the right to investigate an application due to any real or perceived conflict of interest. In the event that ECODIT determines that conflict of interest exists, ECODIT may disqualify an application or terminate the subcontract.

Definition of conflict of interest:

- (1) the contractor is unable or potentially unable to render impartial assistance or advice;
- (2) the contractor's objectivity in performing the contract is or might be impaired;
- (3) the contractor may receive an unfair competitive advantage;
- (4) the contractor may have a financial or other personal interest which would or potentially would impair his/her objectivity and/or from which he/she would improperly benefit.

Further discussion of OCIs may be found in <u>FAR 9.5, Organizational and Consultant Conflicts of</u> <u>Interest</u>.

H. <u>Procurement Timeline</u>

ECODIT will issue the RFP for given town only after it receives the necessary permits and approvals for the construction works envisioned in that town -i.e., environmental approvals, establishment permit, and construction permit. ECODIT has already applied for the environmental approvals and for the establishment permit for those projects, which once issued ECODIT will apply for the construction permits. ECODIT is also in the process of finalizing the design and tender documents for the construction works of Anfeh and Ras El Matn composting station.

Subject to obtaining all approvals/permits and finalizing all necessary documents, the tentative timeline for the procurement of services for the construction of three organic waste composting stations, is approximately as follows:

July 24, 2023	Request for EOIs issued and advertised on Daleel Madan and ECODIT Website
July 31, 2023	Deadline for submitting Questions
Aug 7, 2023	Updated Request for EOIs, including Questions and Answers, posted on Daleel Madani and ECODIT website
Aug 14, 2023	Deadline for receiving EOIs from interested bidders (no later than 5:00 pm Beirut time)
Aug 24, 2023	Short-listed bidders selected, and notifications sent by email to bidders that were not short listed

Sep 29, 2023*	Anfeh RFP sent to short-listed bidders
Oct 10, 2023*	Deadline for short-listed bidders to submit detailed Proposals for Anfeh
Oct 20, 2023*	Selection of Construction Contractor and issuing subcontract for the construction of Anfeh organic waste composting station (to be implemented over a 4-month period)

*Tentative dates

I. Disclaimer

ECODIT reserves the right to change or cancel the procurement at any time during the EOI and/or follow-on solicitation process. ECODIT also reserves the right to require compliance with additional conditions when issuing the RFP. Responding to this Request for EOIs does not automatically guarantee receipt of the solicitation documents when issued. Invitations to bid or requests for quotes and any subsequent purchase order or contract will be issued in accordance with the rules and procedures of USAID and ECODIT.

Notes:

- (1) ECODIT Beirut LLC is exempt from paying VAT under license number EFF/2021/64 issued by the Ministry of Finance on 06/29/2020.
- (2) During implementation and following every payment request submitted by the construction contractor, ECODIT will review and issue a payment verification report. Based on the payment verification report, and unless the Contractor can provide a performance bond and a retention bond, ECODIT will pay to the construction contractor the amount invoiced and approved after deducting 15% as retention. ECODIT will release two-thirds of the retention (or 10% of the total amounts invoiced and approved) upon completion of works and keep the remaining one-third (or 5% of the total amounts invoiced and approved) as financial guarantee during the defect liability period (12 months).

Attachment A

Information to be Provided as Part of Expression of Interest

Contact details		
Name of Bidder:		
Address:		
Name and position of person authorized to negotiate a contract award:		
Telephone number:		
Email address:		
Please respond to the following:		

1. Overall Capabilities and Qualifications of the Bidder

Provide an overview description of the Bidder (1 page), to include at least the following elements:

- Years of operation in Lebanon, the Middle East, or elsewhere;
- Size of firm and resources available, including number of full-time staff, equipment available to implement the scope of work;
- Combined value of projects executed in the past three years;
- General approach to and track record in quality and safety assurance for construction projects implemented in Lebanon, the Middle East, or elsewhere;
- Experience working on US federal or state government clients, including USAID funded projects;
- URL link to your firm's website; and
- Off-the-shelf corporate brochures and marketing materials, if any.

2. Project References / Past Performance

Provide detailed information on up to five (5) relevant projects undertaken by the Bidder, preferably as the prime contractor, in the last five years that demonstrate experience and track record in implementing similar Projects to the construction works proposed under this Request for EOIs, including projects implemented with USAID funding. For each project reference, provide the following information (1 page max per project):

- Project name;
- Client name;
- Contact person information (contact person would also serve as a reference);
- Contract value;
- Contract number;
- Period of performance;
- Place of performance (municipalities, etc.);
- Description of construction works provided.

In addition, please provide a Certificate of Completion (preferable) or equivalent for each project.

3. Key Personnel

Submit the curriculum vitae (CVs, up to two pages each) for up to three Key Personnel (for example, Site Manager, Construction Manager, and Quality Assurance/Quality Control (QA/QC) Manager) that the Bidder intends to propose for implementing the Construction Works in response to the RFPs, if prequalified.

4. Method Statement

Please provide a narrative describing an illustrative Method Statement as per the various sections of the below outline. Please provide photos from previous projects implemented by the bidder showing safety measures applied, equipment used, work in progress, etc.

Method Statement Outline

- A. Site Access
- **B.** Protection of Other works
- C. Health and Safety Plan
- D. QA/QC Protocol including implementation method.
- E. Workplan
 - A tentative timeline for completing the Construction Works detailed in section H below.
 - Capability for executing several types of Construction Works in parallel (based on the preliminary design drawings included in Attachment B)

F. Mobilization

- Equipment required on each site
- Staff and Equipment's Productivity
- Materials data sheets

G. Material procurement and storage

H. Construction Works

H.1 Electrical installation

- o Scope
- Method for:
 - Power supply installation.
 - Lighting installation.
 - Lightening system.
 - Trenches and manholes.
 - Lightning and earthing.
 - Panel boards.
- Group of labors required.
- Reference documents
- Description of sequence
- o Testing
- Machineries and tools
- o Safety

H.2 Mechanical installation.

- o Scope
- Method for:
 - Drainage and rainwater
 - Water supply
 - Trenches and manholes
 - Air conditioning
 - Firefighting
- Group of labors required.
- Reference documents.
- o Testing
- Machineries and tools
- o Safety

H.3 Excavation & Earth Works.

- o Scope
- o Method
- Group of labors required.
- o Reference documents
- Machineries and tools
- o Safety

H.4 Filling - backfilling & Base coarse

- o Scope
- Method for spreading and compacting backfilling and base coarse layers
- Group of labors required.
- Reference documents

- Machineries and tools
- o Safety

H.5 Reinforced concrete

- o Scope
- Method for:
 - Cleaning the site and removing and disposing of surplus materials to approved dumping area
 - Plain concrete works
 - Reinforcement Concrete Footings
 - Breaking into pipes and Installation of valves, fittings, and accessories
 - Reinforcement Concrete walls and columns
 - Reinforcement Concrete slab on grade and tie beams
 - Reinforcement Concrete slabs, beams
 - Concrete Curing
 - Concrete repairing
 - Water proofing to all concrete surfaces in contact with soil where required
- Group of labors required
- Reference documents
- Testing
- Machineries and tools
- o Safety

H.6 Steel Works:

- o Scope
- Method for installation of:
 - Steel structure for hangars
 - Steel fence
 - Steel gate
 - Steel doors
- Group of labors required.
- Reference documents
- Testing
- Machineries and tools
- o Safety

H.7 Finishing works

- o Scope
- Method for:
 - Mansory works.
 - Plastering works
 - Tilling works
 - Waterproofing works.
 - Painting works

- Doors and windows
- Group of labors required.
- Reference documents
- Machineries and tools
- o Safety

H.8 Landscaping

- o Scope
- Method for:
 - Asphalting
- Group of labors required.
- Machineries and tools
- Reference documents
- o Safety

I. Substantial Completion

J. Handing Over

- Testing & Commissioning including description of minor and major work components.
- Snag list.

5. Breakdown per Unit Cost for Civil and Architectural Works

Please provide realistic and accurate breakdown per unit cost for the civil and architectural items as shown below and in the excel document attached here.

DAWERR-UNIT PRICES BREAKDOWN

See also Attachments B and C of this document for reference.

Note: Any difference in unit cost proposed by shortlisted bidders at the RFP stage will need to be justified.

	CIVIL ITEMS												
Α	Site Construction:												
Item	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT			
A1	Sub-Base and Base Courses: Preparation including excavation for fi placing suitable materials as specified leveling and compacting to required d to the satisfaction of the Engineer. Aggregate base course, 200 mm thick foundations, the slabs on grade, and th	and wh ensity a after co	aggregate su	d, and comp Ib-base and o required c	baction to base cour lensity und	required of ses, all to der slab or	density, then a be done as sp n grade, and 2	supplying, o becified, sho	distributing, own on the	, spreading, drawings and			
A1.1	Sub-Base and Base Course layer.	m2	1										

В	CONCRETE AND REINFORCE	D COI		NORKS:						
Item	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
B1	Cast-in-place reinforced concrete: Cast in place ready mix reinforced con II, 30 MPa on Cylinder (38 MPa on Cub where required, steel bar reinforceme inserts for openings, sleeves, two cros with soil where required, etc., and all o	oe), com ent rations coats	nplete inclue o 90Kg/m3, of approve	ding formwo accessories d bituminou	ork of any 5, construc s cold app	type and a tion joints lied water	iny shape, po , waterstops proofing pair	lyethylene to each cas it to all con	sheet (0.25 ting edge if crete surfac	mm thick) applicable, ces in contact
B1.2	Foundations, any type (isolated & Strip) and any thickness.	m3	1							
B2	Cast-in-place reinforced concrete: Cast-in-place reinforced concrete (Type II, 30 MPa on Cylinder) ready mix using moderate sulphate resistant cement to ASTM C150, type									
B2.1	Slabs on grade, 150 mm thick.	m2	1							

С	Steel Works:									
Item	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
C1	Steel Fence works: Providing and installing a fence of galvanized steel mesh, size 5 cm * 5 cm thickness 4 mm, height 1.5 m, fixed and welded on steel columns measuring 6 x 6 cm and connected with a HSS60x30x3 mm from the top and bottom with all the necessary welding and painting for the steel according to the specifications & the engineer's instructions.	L.m.	1							

D	ASPHALT									
Item	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
D1	Asphalting works including: - Curing the compacted mix at least 24 - Prime coating the cured mix in advant - Placing one layer of asphalt concreter minimum of 98%). The asphalt concrete shall be protecter is dropped down to 60 Centigrade Celst 19.05mm and 12.7mm, respectively): • Bitumen Grade = 40/50, • Marshall Stability at 60oC >= 950Kg at • Percent Air Voids (Pa) = 3 - 5%, • Percent Voids in the Mineral Aggregate • Percent of Voids Filled with Asphalt (• Optimum Bitumen Content in Total I • Bulk Specific Gravity of Compacted N • Mineral Filler to Bitumen Ratio = 0.8	ice to p (7cm t d again sius. Wo and Flo ate (VM (VFA) = Mix (Pb Mix (Gm	lace the new hick loose li earing cours w: 2 - 3.5mr 1A) > 14, 65 – 75,) = 4.5 – 5.5	ft), and Wel Iring the cor se of asphal m, %,	l-compact	and, until	the surface te	emperature	of the aspl	nalt concrete
D1.1	Asphalting the external yard.	m2	1							

	Architectural Items											
Α	MASONRY WORKS											
ltem	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT		
A1	Concrete Masonry Unit: Hollow and/or solid concrete blocks a including all necessary reinforced co and masonry walls for masonry, rein steel wire mesh, accessories, steel ar drawings and approved shop drawing <u>Notes:</u> - The Contractor shall submit to the B necessary stiffening columns and tie on drawings or not. - Masonry walls shall comply with 19 least the descriptions stated in the Te - The Contractor shall submit to the B ASTM C90 or C126 for Hollow or Solie Hollow or Solid Load-Bearing Minimum net area compressive street Non-Load Bearing	ncrete forcem ngles an gs, and Enginee beams 97 Unif echnica Enginee d Load-l ngth rec	stiffening co ents, dowels d supports f to the satisfa r for approva for masonry orm Building I Specificatio r for approva Bearing or N quirements a	olumns, tie k s, stainless s or masonry action of the al all necess , and includ g Code requi ons and the al the labora lon-Load Bea are 6.40 MPa	beams, linte teel head re infills, and a Engineer. ary shop dra ing lintel, jar rements as details show atory test res aring Concre a for an indi	Is, jambs a straints, m Il other re awings of p mbs and si concerns r on on the D sults of the ete Masoni ividual uni	and sills, con nineral wool, lated works, proposed con Il detail for ea resistance to Drawings. e physical pro ry Units as fo t and 7.20 MI	nections betw sealant, all ne all as specifie struction det ach opening w seismic force operties in co llows: Pa average fo	ween ste ecessary d, showr ails inclu whether s, and sh mpliance	el columns galvanized n on the ding all it is shown all have at e with the mits.		
A1.1	100 mm thick walls in hollow concrete blocks:	m2	1					5				
A1.2	200 mm thick walls in hollow concrete blocks:	m2	1									

В	FINISHES 1/3									
ltem	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
B1	Portland Cement Plaster: Prepare surfaces and apply one dash wire mesh metal lath, metal corners the steel column and the plastered w plaster stopper, and all other related	for the vall, glas	openings of ss fibers, app	the internal proved wate	wood doors	s, angles ai Imixtures f	nd accessorie for external p	s for the inte laster and wh	rsection nere indi	between
B1.1	Plaster to internal masonry walls and reinforced concrete columns.	m2	1							
B2	Waterproof External Finishing Rend Prepare the surface, remove all dust monocouche Pierre Liquide from We sand plaster to external surfaces, (1 work to be carried out under good co match render color, and all other rela	or any ber and :4) mix onditior	l Broutin or o ratio, 20mm ns, all necess	equivalent a 1 thick), prim ary accessor	pproved, co ner, providin ries, color ar	mplete inc ig adequat id tone as	cluding all neo e scaffolding selected by t	cessary plaste and work sur he Engineer,	ering (us faces to angle be	ing cement enable ads to
B2.1	External Plaster + Waterproof external finishing render monocouche, of approved color, to façade surfaces.	m2	1							

В	FINISHES 2/3									
ltem	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
В3	Alkyd/Oil Solvent Based Enamel Pain Prepare surfaces, supply materials, a based enamel paint to the following Alkyd/oil solvent based enamel	nd appl	•				-	• •		
B3.1	paint: to all internal plastered walls in reception and carbon material storage rooms, the curing area, the mezzanine as specified on the design drawings.	m2	1							
B4	Washable Acrylic Vinyl Copolymer E Prepare surfaces, supply materials, a acrylic vinyl copolymer emulsion pair of the Engineer.	nd appl	y one under							
B 4.1	Washable acrylic vinyl copolymer emulsion paint, of approved type & color, to internal plastered walls.	m2	1							

В	FINISHES 3/3									
ltem	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
В5	Waterproofing : Supply all required materials, and con- floor finish for blocks A (curing area), - Surface preparation including clean - Execution of concrete upstands at e - Execution of cement sand mortar (1 - Application of bituminous primer; - Application of one layer of SBS poly against walls and parapets, and cove - Application of additional membrane - Supply and installation of approved Supply and installation of extruded p - Supply and installation of 0.25mm t - Execution of groove and fixing the v Supply and installation of approved a anchors; All necessary accessories an - Provision of ten year free maintena coverage of materials and installation N.B.: The contractor must submit de details and the execution stages to t	completing & set edge op .:3) bev mer mo ring all e at dra polystyr hick po vaterpr nodized d laps. ance gu on, and etailed	ete including ealing of crac eenings; eled corners odified bitum upstands; in outlets; opylene prot ene insulatio lyethylene s oofing mem d aluminum arantee for repairing all shop drawir	g, but not lim cks and joint s to all inters nen membra tection boar on boards, 5 heet; brane with f flashing for the waterpr damages re ngs and met	nited to, the s with appro- sections, size one, 4 mm th ds, 5 mm th 0 mm thick, fasteners, ar waterproofing coofing system esulting from hod stateme	following: oved seala e 50 mm x hick, to floo ick, 650 g/ 35 kg/m ³ hd applicat ing system em after co n failure to ent for the	: nt materials; 50 mm fillet; or surfaces, a 'm ² ; density; : con of approv , complete in ompletion of o resist the p e execution o	nd dressing u ved mastic se cluding mast the works co enetration of f this layer co	ıp 200 m alants; C ic sealan omplete f moistu	oncrete as m high PR ts and including r e;
B5.1	Waterproofing system to the floor of the curing areas, the carbon material storage, and the reception areas.	m2	1							

С	Tile									
ltem	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
C1	Ceramic Floor & Walls Tile: Approved first quality ceramic floor t with white or colored cement morta satisfaction of the Engineer.	-	=		-		-			
C1.1	Ceramic Floor Tile: Heavy duty anti-slip full body (plein masse) ceramic floor tiles, of approved type, dark grey color, matt finish, size 600 x 600 mm, 8 mm thick.	m2	1							
C1.2	Ceramic Wall Tiles: Approved first quality ceramic wall tiles of approved type, light grey color, matt finish, size 300 x 300 mm, 8 mm thick.	m2	1							

D	Doors & windows 1/2										
ltem	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT	
D1	Overhead Coiling Strip Doors: Supply and install the following galvanized steel rolling shutter strip doors, electrically operated complete including all necessary frames, supports, anchors, guides, roller shaft counterbalance, accessories, ironmongery, sealants, safety edge, overhead cover box, electrical operating components, control station, motors, controls, keys, automation system, operating hardware, connections, testing and commissioning, and all other related works, all as specified, shown on drawings and to the satisfaction of the Engineer.										
D1.1	Steel door MD04: electrically operated coiling strip doors, opening size 4000mm wide x 3900 mm high.	Nb	1								

D	Doors & windows 2/2									
ltem	Description	Unit	Quantity	Material	Labor	Equip.	Sub- contractor	Total direct cost	OH & Profit	Unit Cost without VAT
D2	Aluminum Doors and Windows: Supply and install the following doub Engineer) complete including frames approved, intumescent strips, ancho toughened glass, 12 mm thick void, a 3cm thick all around the window fram Engineer.	, sub-fra rs, fixing and 6 m	ames, galvar g devices, ac m thick clea	nized reinfor cessories, h r toughened	ced steel for ardware, iro glass (6-12-	r frames, t nmongery 6), mosqu	ransoms, sills , gaskets, sea ito nets, stee	, type Saint G lants, using G l protection,	Gobain o 5 mm thi natural s	r similar ck clear tone tiles
D2.1	Window WAL 01 with steel protection: double glazed aluminum windows, double leaf,sliding,steel protection, sliding mosquito net, tiles th 3cm all around the window frame, overall opening size 1400 x 1200 mm high.	Nb	1							
D2.2	Door DAL01: aluminum door, single leaf, overall opening size 90 x 210 mm high.	Nb	1							

Attachment B - Preliminary Design Drawings of the Project

Attachment C - QA/QC Procedures

Submission	Frequency	Prepared by	Validated by	Approved by	Contract	Record Reference
Project organizational chart	Contract award/ Beginning of the project	Local Development Lead	Construction manager	Chief of Party	LDL will prepare the project organizational chart and will specify the human resources needed to develop the project. The Organizational chart will be adapted to every Project under DAWERR	Project Organizational chart
Mobilization						
Mobilization Plan (including Schedule)	Beginning of the project	Contractor	Site supervisor/ Field Coordinator	Construction manager	As per contract requirements	Document submittal DS Form
Submittals						
Material submittal*	As per schedule	Contractor	Site supervisor/ Field Coordinator	Construction manager/ Other Engineering Specialists	As per contract requirements	Material Submittal MS Form

Submission	Frequency	Prepared by	Validated by	Approved by	Contract	Record Reference
Shop Drawing submittal*	As per schedule	Contractor	Site supervisor/ Field Coordinator	Construction manager/ Specialist	As per contract requirements	Shop drawing submittal SDS Form
As-Built Submittal*	End of the project	Contractor	Site supervisor/ Field Coordinator	Construction manager/ Specialist	As per contract requirements	As built submittal AsBS Form
Documents Submittal*	As per schedule/ End of the project	Contractor	Site supervisor/ Field Coordinator	Construction manager/ Specialist	As per contract requirements	Documents submittal DS Form
Site operations & reports						
Work plan	Beginning of the project	Contractor	Site supervisor/ Field Coordinator	Construction manager	As per contract requirement	Documents submittal DS Form
Method Statement	Beginning of the project	Contractor	Engineering Specialists	Construction manager	As per contract requirement	Documents submittal DS Form
Kick Off Meeting	Beginning of the project	Site supervisor/ Field Coordinator		Attendees	After the site meeting the Site supervisor will issue the minutes of meeting and will share it with all concerned parties at the end of the meeting for approval.	Minutes of Meeting MOM Kick Of Form

Submission	Frequency	Prepared by	Validated by	Approved by	Contract	Record Reference
Minutes of Meeting	As needed	Site supervisor/ Field Coordinator		Attendees	After each site meeting the Site supervisor will issue the minutes of meeting and will share it with all concerned parties at the end of the meeting for approval.	Minutes of Meeting MOM Form
Site visit report	As needed	Field Coordinator/ Environmental officer (ECODIT Liban)/ DAWERR engineer/ USAID A&E firm	-	-	Each party visiting the site will prepare a site visit report and will share it with other parties. Comments will be included in the MOM of the next meeting for follow up.	-
QA / QC						
Inspection Request (IR)	As needed	Contractor	Site supervisor/ Field Coordinator	Engineering Specialist	As per contract requirements	Inspection Request IR Form
Non-conformity report (NCR)	As needed	Site supervisor/ Field Coordinator	Engineering Specialist	Construction manager	As needed	NCR
Modifications/Changes		•		•		

Submission	Frequency	Prepared by	Validated by	Approved by	Contract	Record Reference
Claims	When needed	Contractor	Engineering Specialist/ Manager	Chief of Party	As per contract requirement	Letter (External Document)
Request for Extension of time	When needed	Contractor	Engineering Specialist/ Manager	Chief of Party	As per contract requirement	Letter for extension of time (External Document)
Payments						
Quantity surveying preparation	When needed	Contractor	Engineering Specialist	Construction manager	As per contract requirement	Bill of Quantity and associated quality control reports on billed items
Request for payment review	When needed	Engineering Specialist	Construction manager, then Supply Chain and Grants Specialist	Chief of Party	Submitted quantities are checked by Engineering Specialist(s), corrected as needed, and forwarded to the Construction Manager. The Supply Chain and Grants Specialist then validates quantities, unit rates, multiplications and totals.	Bill of Quantity and associated quality control reports on billed items

Submission	Frequency	Prepared by	Validated by	Approved by	Contract	Record Reference
					COP provides final approval of the above and of payment in order to be forwarded to accounting/ finance for payment processing.	
Interim payment log/Summary	When needed	Procurement Officer	Supply Chains and Grants Specialist	Finance Manager and COP	As per contract requirement	Interim payment log
Handing over/Final acceptance					1	
Request for provisional handing over	When construction works are completed	Contractor	Site supervisor/ Field coordinator	Construction manager	As per contract requirement	External Letter for provisional handing over
Provisional Handing Over	When needed	Site supervisor/ Field coordinator	Engineering specialists	Construction manager	As per contract requirement	MOM - Handing Over form + Punch List
Request for final handing over	After snag Lists clearance	Contractor	Construction manager	Chief of Party	As per contract requirement	External - Letter for final handing over
Final Handing Over	End of the project	Site supervisor	Construction manager	Chief of Party	As per contract requirement	MOM - Handing Over form + Snag List