LEBANESE RED CROSS

DISASTER MANAGEMENT SECTOR

SHELTER AND WASH PROGRAMS

TERMS OF REFERENCE

National Framework Agreement for Solar Works

ONE-YEAR FRAMEWORK AGREEMENT FOR SOLAR WORKS

Terms of Reference — Design, Supply, Installation, Rehabilitation, Testing, Commissioning, Operation and Maintenance of Solar-Powered Systems

Contract type	One-year framework agreement
Framework period	Twelve (12) calendar months from the date of contract signature
Geographic coverage	National coverage
Issued by	Lebanese Red Cross — Disaster Management Sector, WASH and Shelter Program
Date of issue	[01 / 10 / 2026]

1. Background

The Lebanese Red Cross (LRC) operates health, blood-transfusion, emergency-medical-service, training and water and sanitation facilities across all Lebanese governorates. Public electricity supply remains limited and unreliable, and the cost of diesel generation continues to place a heavy and recurrent burden on operating budgets. LRC has therefore adopted solar power as the primary means of securing continuity of service at its centers and at the water infrastructure it supports for host communities and displaced populations.

Solar interventions are requested by LRC branches and by partner municipalities throughout the year, at short notice, at widely dispersed locations and at very different scales from a single rooftop array at a branch, to the solarization of a municipal borehole, to the rehabilitation of an ageing installation whose batteries or inverter have failed. Procuring each of these individually by separate tender is slow, absorbs disproportionate administrative effort and does not secure competitive rates.

LRC therefore intends to establish a one-year framework agreement with one qualified contractor, priced on a schedule of rates, under which individual works are ordered as and when the need arises. The framework is based on the LRC Solar Works Tender Bill of Quantities.

2. Objective

LRC invites qualified contractors to submit one consolidated technical and financial offer, priced against the attached Bill of Quantities, for a one-year framework agreement covering the design, supply, transport, installation, rehabilitation, modification, expansion, testing, commissioning, operation, maintenance and complete operational handover of solar-powered systems at LRC and LRC-supported sites throughout Lebanon during normal operations, emergency response, and conflict affected area.

The framework is deliberately not limited to solar panels, inverters and electrical cabling**.** It covers the whole field implementation chain and all the interfaces between the solar installation and the civil, structural, electrical, mechanical, pumping and site works that surround it. The Contractor must be able to receive an LRC field requirement and carry out the necessary works.

The objectives of the framework agreement:

- Establish technically compliant unit rates for the items included in the Solar Works BOQ.
- Ensure consistent quality, safety, documentation, testing and handover across all purchase orders.
- Enable rapid deployment to operational, institutional, community and humanitarian facilities throughout Lebanon.

3. Framework Information

The framework shall remain valid for twelve (12) months from the effective date stated in the contract and is intended for use nationally in Lebanon. The framework does not guarantee a minimum quantity, number of assignments or expenditure.
LRC will issue separate Purchase Orders identifying the location, site-specific scope, quantities, design parameters, implementation period, approved BOQ items and any special operational constraints. No work shall start without formal written authorization from LRC.

Nature of the agreement	Signature of the agreement does not of itself constitute an order for any works and does not guarantee any minimum volume of work or value.
Basis of pricing	Schedule of rates. The unit rates tendered by the Contractor are fixed for the full framework period and apply to every purchase order at any location, irrespective of order size.
Quantities in the BOQ	The quantities shown in the Bill of Quantities are LRC's best estimate of the twelve-month call-off volume. They are given solely to allow bids to be compared on a common basis. They are indicative and non-binding; the quantities actually ordered may be greater, smaller or nil for any item.
How work is ordered	Through written purchase orders issued by LRC, each naming the site, the items to be executed, the measured quantities, the duration and any site-specific requirement. See Section 6.
Work sections	SOL-1 Preliminaries, mobilization & site works · SOL-2 Civil & structural works · SOL-3 PV modules, mounting structures & equipment housing · SOL-4 Inverters, energy storage & removal of redundant equipment · SOL-5 Electrical balance of system, containment, protection & distribution · SOL-6 Solar water pumping systems · SOL-7 Testing, commissioning, documentation & handover · SOL-8 dayworks
Currency	United States Dollars (USD), fresh funds
Defects liability period	Twelve (12) months from the date of the handing over certificate of each individual purchase order on the overall works implemented in addition to minimum warranty periods stated in section 5.1 Warranty to be explicitly stated on the provided handing over and warranty certificate in the name of the final recipient of the works

4. Scope of Work

The Contractor shall supply all materials, labour, supervision, tools, plant, equipment, access equipment, temporary works, transport, testing, training on operation and maintenance to the end user at no additional cost to LRC and documentation required to complete the works described below and priced in the Bill of Quantities. The scope is divided, implementation, inspection, training of the end user, and handover.

4.1 SOL-1 — Site Works

- Dismantling, demolition, setting aside and reinstatement of existing tanks, equipment and obstructions to clear the solar installation area.
- Excavation in any material for foundations, trenches and equipment bases, and backfilling and compaction with approved material.
- Asphalt cutting, pavement removal and reinstatement over cable and pipe routes; new asphalt pavement; granular sub-base; and precast concrete kerbstone.

4.2 SOL-2 — Civil & Structural Works

- Reinforced concrete of 25 MPa measured by the cubic meter for array foundations, pad footings, ballast blocks, equipment room bases, plinths and trench haunching, including reinforcement, formwork and all cast-in items.
- Concrete block walls, internal and external plastering, and internal and external painting with and without putty, to inverter rooms, battery rooms, pump houses and equipment compounds.
- External stone cladding and floor and wall tiling where required to match the existing building.
- Reinforced concrete electrical manholes and cable draw-pits in three sizes, with medium-duty (B125) covers.
- Roof waterproofing reinstatement at every PV fixing and penetration — polyurethane liquid membrane and APP/SBS torch-applied membrane — with local reinforcement at every anchor, water testing and a written waterproofing warranty.
- Core drilling of walls and slabs for cable and conduit penetrations, with sealing and making good.
- Reinstatement or diversion of roof drainage disturbed by the works: uPVC rainwater downpipes and U-shaped drainage channels at array and compound edges.
- Site security and protection: chain-link fencing, pedestrian gate, fixed steel bollards.

4.3 SOL-3 — PV Modules, Mounting Structures & Equipment Housing

- Supply and installation of high-efficiency monocrystalline PV modules complete with the full balance of system, dc cables SPDs, combiner boxes,...measured per watt-peak, and replacement of defective modules in operating arrays.
- PV mounting structures for flat and pitched roofs, and ground-mounted structures on concrete bases or kerbstone and elevated PV support structures of the raised canopy or carport type over usable ground designed and certified by the Contractor's structural engineer for the site wind loading.
- Sandwich panels with supporting steel structure, and external steel doors to inverter, battery and pump rooms.
- Steel poles for solar luminaires, PV panels and overhead cable support.

4.4 SOL-4 — Inverters, Energy Storage & Removal of Redundant Equipment

- Single-phase hybrid inverters , three-phase hybrid inverters from and high-voltage battery hybrid inverters , each supplied complete with its AC/DC protection panel and accessories and cables.
- Lithium iron phosphate batteries with an integral battery management system.
- High-voltage stackable lithium battery modules , together with the high-voltage base or master control unit and its high-voltage box.
- Configuration and commissioning of the grid, battery, generator and load-priority parameters to LRC's written operating strategy, firmware updating, and handover of the recorded parameter settings.

4.5 SOL-5 — Electrical Works, Containment, Protection & Distribution

- Solar-rated DC cabling with MC4 connectors, DC combiner boxes, AC/DC protection enclosures with surge protective devices, AC cables, and inverter protection enclosures providing lockable AC and DC isolation.
- Monitoring, control and remote data-logging.
- Earthing systems achieving a measured resistance not exceeding 5 ohms, and lightning protection designed to IEC 62305 following a documented risk assessment.

- Change-over and transfer switching between EDL mains, generator and solar supply, providing both manual and automatic operation, up to 4 × 400 A, and integration of an automatic transfer switch with the existing sources on site.
- Main distribution boards and circuit breaker boxes, and the full range of protective devices — RCDs, RCBOs, single-phase and three-phase MCBs and contactors — all devices on single-phase circuits being double-pole.
- Containment and routing: concealed and surface wiring circuits, galvanized perforated cable tray, and complete cable trenching including excavation, sand bedding, ducting, warning tape, backfill and surface reinstatement.
- Small power and lighting served by the solar supply: socket outlets, switches, extract fans, interior and exterior lighting points, emergency luminaires, solar streetlights, exit signs and smoke or heat detection in inverter and battery rooms.

4.6 SOL-6 — Solar Water Pumping Systems

- Solar pumping variable frequency drives from 2 HP to 300 HP, each capable of operating directly from the PV array with integral maximum power point tracking and of switching automatically to a mains or generator supply where available.
- Matching sinewave output filters for every drive rating, so that the submersible motor and its long cable run are protected from voltage reflection, bearing currents and insulation stress.
- IP54 electric panels housing the drive and filter, pump control panels with float and pressure switch and tank level control, and borehole water-level monitoring with dry-run protection.
- Additional cable runs beyond the first fifty meters between the array, the control panel and the pump, with the conductor size re-calculated for the extended route.

4.7 SOL-7 — Engineering Documentation & Handover

- Engineering design, calculations & shop drawings for a solar installation
- As-built drawings of the completed solar installation.
- Operation and maintenance manual and original warranty certificates

4.8 SOL-8 —Dayworks

LRC can call the Contractor to conduct other maintenance works or inspections.

5. Technical Requirements and Workmanship

- All materials and equipment supplied shall be new, unused, of consistent quality, from a single manufacturer per equipment family wherever practicable, and fit for their intended purpose and for the Lebanese climate.
- All works shall comply with IEC 60364 (low-voltage installations), IEC 62548 (PV array design), IEC 62446-1 (PV system documentation, commissioning and verification), IEC 62305 (lightning protection), IEC 62485-2 (battery installation safety), IEC 61215 and IEC 61730 (PV modules), IEC 62109 (PV inverters) and IEC 61800-5-1 (variable-speed drives), and with applicable Lebanese regulations and EDL requirements.
- Repairs and replacements shall match the existing type, size, colour and finish unless otherwise approved by the LRC Engineer.

- No material or equipment shall be installed, and no existing element removed or altered, without the prior written approval of the LRC Engineer. Approval of a material does not relieve the Contractor of responsibility for compliance with the contract requirements.
- The Contractor shall submit shop drawings, structural calculations, material data sheets, certificates of conformity, test certificates and samples for approval before procurement and execution. Long-lead items — PV modules, inverters, batteries, pumps, drives, transfer switchgear and distribution boards — shall not be procured until written approval is obtained.
- All protective devices on single-phase circuits shall be double-pole, switching both line and neutral. Single-pole devices are not acceptable.
- Every roof penetration made for a PV fixing shall be sealed and re-waterproofed under the relevant BOQ item. The Contractor shall provide a written waterproofing warranty for every roof on which it works.
- All works and systems shall be tested and commissioned, and a written handover report with as-built documentation shall be provided for every call-off order.
- The Contractor shall protect existing building elements, equipment and installations, and shall make good at its own cost any damage caused by its operations.
- All waste generated by the works, including redundant batteries, PV modules and inverters, shall be collected, transported and handed over to the end user based on his request / or disposed of or recycled lawfully and in an environmentally sound manner at the Contractor's cost, and a disposal or recycling certificate shall be provided if present. No battery shall be left on an LRC site or disposed of in general waste and no additional cost or responsibility on LRC.

5.1 Warranty

Unless a longer manufacturer's warranty applies, the following minimum warranty periods shall be provided:

Item	Minimum warranty
PV modules	12 years product warranty and 25 years linear performance warranty or the manufacturer's whichever is the greater
Inverters (all types)	5 years or the manufacturer's whichever is the greater
Lithium batteries	7 years, or the manufacturer's cycle warranty, whichever is the greater
Variable frequency drives and sinewave filters	5 years or the manufacturer's whichever is the greater
Pumps, motors and mechanical equipment	2 years or the manufacturer's whichever is the greater
waterproofing	3 years for PU and 10 years for APP/SBS
Concrete works	25 years
Workmanship on all installations	12 months from the handing over certificate of the relevant purchase order

6. Framework Operation and Procedures

The framework agreement is executed through written purchase orders. The following procedure applies to every order.

Step	Stage	Requirement
1	**Requirement identified**	LRC identifies a requirement at a site and, where necessary, invites the Contractor to a joint site visit.
2	**Purchase order issued**	The LRC issues a written purchase order stating the site, the BOQ item codes to be executed, the measured quantities, the site-specific requirements and the name of the LRC focal point.
3	**Acknowledgement**	The Contractor acknowledges the order in writing within three (3) working days, confirming the works and the proposed program.
4	**Design submission**	Where the order includes a new or modified system, the Contractor submits the SOL-7.01 design package. No site work may start before the LRC Engineer has approved it in writing. This is a hold point.
5	**Mobilization**	Routine orders: maximum within seven (7) calendar days of the approval of the design submission, or of the order where no design is required. Emergency orders so marked by LRC: attendance within twenty-four (24) hours, or on the same day.
6	**Execution**	Works executed in accordance with this TOR, the approved design and the approved program, under the supervision of the LRC Engineer.
7	**Testing & commissioning**	According to the specific project
8	**Handover**	Submission of as-built drawings, O&M manual, warranty certificates and the handover pack.
9	**Measurement & payment**	Payment against the accepted measured quantities at the framework rates, certified by the LRC Engineer, and the issuance of a GRN

- No work shall be commenced, and no payment shall be made, without a written purchase order signed by the authorized LRC representative. Verbal instructions have no effect.
- LRC may issue any number of purchase orders, may run several orders concurrently at different sites, and gives no guarantee of any minimum number or volume or value of work.
- LRC reserves the right to execute any works outside this framework where it considers it necessary, without any claim by the Contractor.
- Dayworks — solar / electrical technician (per man-day hours) Count per hour to the instruction of the LRC Engineer.
- Each purchase order carries its own completion period, its own handing over certificate and its own twelve-month defects liability period and warranty certificates.

7. Insurance

The cost of all required insurance policies shall be included in the framework rates. Coverage shall include the Contractor's personnel, equipment and liabilities related to the Employer and its representatives, in accordance with the conditions of contract and applicable laws and regulations. Insurance shall explicitly cover risks related to war, armed conflict, civil unrest and acts of terrorism.

An insurance policy in fresh funds shall be presented to LRC and shall remain valid throughout the framework period at no additional cost to LRC, covering Contractor's all risks, workers, third-party liability,

and machinery, tools and equipment, and all scale of works. The policy shall extend to work at height and to work on live electrical and battery systems.

The Contractor shall maintain these policies throughout the framework period and any defects liability period. LRC shall not be liable for loss, damage, injury or claims arising from inadequate, insufficient or missing insurance coverage. Failure to maintain adequate coverage shall constitute grounds for suspension of work and for termination of the framework agreement.

8. Health, Safety and Environmental Requirements

- Implement applicable local and international health and safety requirements and industry good practice on every purchase order.
- Provide appropriate PPE, signage, barriers, controlled access, safety induction, monitoring and toolbox talks.
- All electrical works shall be carried out by qualified and certified electricians. Safe isolation, lock-out/tag-out and proving dead shall be applied before any work on a live or dual-supply system. Circuits shall be isolated, tested and certified before re-energization.
- Solar installations remain live on the DC side after the AC supply is isolated. The Contractor shall apply the dual-isolation procedure and shall label every installation accordingly.
- Provide safe working-at-height arrangements for all roof, array, pole and elevated-structure works, including fall protection, edge protection and rescue provision.
- Apply the battery-handling precautions required by IEC 62485-2, including ventilation, insulated tools, terminal protection, spill containment for vented chemistries and eyewash provision.
- Confined-space entry to tanks, manholes and pits shall be carried out under permit with a standby attendant and gas monitoring.
- Safeguard LRC staff, volunteers, patients, beneficiaries and the public throughout the works, particularly at operational centers that remain occupied during execution.
- Comply with LRC's code of conduct, child-safeguarding and protection from sexual exploitation and abuse policies.
- Manage waste lawfully, with particular attention to batteries and PV modules, and provide disposal or recycling certificates, with no responsibility or liability on LRC.

9. Site Conditions and Preliminary Inspection

Because this is a framework agreement, no single site is defined at tender stage. The Contractor is deemed to have satisfied itself as to the general conditions prevailing at LRC sites across Lebanon, including the range of building types, roof constructions and access conditions, the dispersed and sometimes remote locations, the variable road access, the mountainous terrain and winter conditions at altitude, the security situation, and the presence of existing and often undocumented electrical installations.

For each individual purchase order, a joint site visit and condition survey with the LRC Engineer shall be carried out before execution. The Contractor shall confirm dimensions, access, existing installations, shading and structural capacity at that stage.

10. Contractor Submission Requirements

- Company profile, valid commercial registration, VAT registration and tax clearance.
- Signed and stamped priced Bill of Quantities, with each of the eight work sections priced separately and the consolidated total completed.
- Technical data sheets identifying the proposed manufacturer, brand and model for every major item listed in the table below. Safety Data Sheets shall accompany all paints, coatings, sealants, adhesives and chemical products.
- Detailed methodology addressing all works, mobilization from the Contractor's base to remote governorates, quality control, testing and commissioning.
- A statement of the Contractor's capacity to run several purchase orders concurrently at different locations, including the number of crews the Contractor can field simultaneously as the expectation to have up to 5 projects running concurrently.
- List of similar projects completed in the last five (5) years, with references, specifically including solar PV installations, hybrid and battery systems, and solar water pumping installations.
- List of machinery, plant, access equipment, lifting appliances and test instruments available for the framework, including calibration certificates for test instruments.
- CVs of proposed key personnel: at least one Electrical Engineer and one Civil or Structural Engineer, a site foreman, certified electricians, and a technician qualified on solar PV and battery systems.
- Identification of any proposed subcontractors and the work sections assigned to them.
- Commitment letter confirming that the required insurance policy will be arranged once the contract is awarded.
- Confirmation in writing that the Contractor accepts the twenty -four (24) hour emergency attendance obligation for the whole framework period, and the emergency contact details to be used.

10.1 Required technical documentation and Data sheets by BOQ section

Section	BOQ items	Major item requiring datasheet	Required technical documentation
SOL-2	**2.13, 2.14**	PU liquid and APP/SBS waterproofing membranes	Complete system datasheets, SDS, and the form of waterproofing warranty offered
SOL-2	**2.05, 2.06**	Internal and external painting	Complete paint-system datasheets
SOL-3	**3.01, 3.02**	PV modules	Module datasheet with efficiency, IEC 61215 and IEC 61730 certificates, product warranty and linear-performance warranty documents
SOL-3	**3.12, 3.13**	Solar LED streetlamps	Datasheets for each solar streetlamp rating

Section	BOQ items	Major item requiring datasheet	Required technical documentation
SOL-4	**4.01–4.20**	Hybrid inverters, including single-phase, three-phase and high-voltage types	Datasheet for each rating showing DC/AC ratings, MPPT configuration, efficiency, IP rating, IEC 62109 certification, EDL acceptance, battery compatibility letter and warranty
SOL-4	**4.21–4.26**	Lithium batteries, high-voltage battery modules and base units	Datasheet showing usable capacity, cycle life at 80% DoD, BMS specification, IEC 62619 and UN 38.3 certificates, inverter compatibility letter and warranty
SOL-5	**5.11–5.18**	Copper wiring circuits	Datasheets indicating conductor material, cross-section, insulation and voltage rating
SOL-5	**5.01–5.03**	Combiner box, protection enclosures, SPDs and isolators	Datasheets indicating IP rating, fuse and SPD type and class, applicable IEC 61643 compliance, and isolator breaking capacity
SOL-5	**5.05, 5.06**	Earthing and lightning-protection components	Datasheets for electrodes, conductors, clamps, air terminals and connectors, with IEC 62561 compliance where applicable
SOL-5	**5.07–5.10 and 5.31**	Distribution boards, transfer switch, circuit breakers, contactors, SPDs, protection and control relays	Datasheets indicating rating, number of poles, breaking capacity, operating curve or utilization category
SOL-6	**6.02–6.22**	Solar pumping VFD drives	Datasheet for each rating indicating power, input-voltage range, integral MPPT, protections
SOL-6	**6.23–6.43**	Sinewave output filters for solar pumping VFDs	Datasheet for each rating confirming compatibility with the corresponding VFD and motor rating, rated current and voltage, permitted switching frequency, environmental/IP rating,

Section	BOQ items	Major item requiring datasheet	Required technical documentation
			losses, thermal protection and IEC 61800-3 compliance

11. Key Deliverables and Handover

The following shall be delivered for every call-off order unless the LRC Engineer confirms in writing that an item does not apply to that order:

- Written acknowledgement of the purchase order, and the proposed program.
- Approved engineering design package, calculations and shop
- Approved material submittals, datasheets, certificates and samples.
- Daily site records and progress updates as required by the LRC Engineer.
- Electrical inspection and test certificates
- PV array verification report, with string measurements, insulation results and thermographic findings.
- performance report comparing measured and designed performance.
- As-built drawings in AutoCAD and PDF, two hard copies and one soft copy on USB and by e-mail (SOL-7.02) when requested.
- Operation and maintenance manual and original warranty certificates, two hard copies and one soft copy on USB and by e-mail (SOL-7.03) when requested.
- Operator training session for LRC staff, volunteers, and the end user delivered in Arabic on the completed installation.
- Equipment schedule for LRC's asset register, listing every major item with manufacturer, model, serial number, capacity, installation date and warranty expiry.
- Site cleaned and all debris and surplus materials removed. The Contractor is solely responsible for the collection, transport and lawful disposal of all waste; LRC bears no responsibility for it.
- Defects list closure and a final written handover report.
- Warranty certificates in the name of the end user

12. Bill of Quantities

The Bill of Quantities is issued separately, **“LRC Solar Works Tender BOQ”**, which forms an integral part of this Terms of Reference The bidder shall price every item in the column “Rate excl. VAT (USD)”. The rate included VAT, the amount and the section subtotals are calculated automatically and shall not be overwritten.

- Each rate shall be for the complete item as described — supply, transport, unloading, storage, installation, all fixings and accessories, testing, commissioning, making good, all labour, tools, access equipment, consumables, overheads and profit — unless the description states otherwise.
- The quantities shown are LRC's estimate of the twelve-month volume and are indicative and non-binding.
- Where a packaged or complete-system item is priced, its constituent components shall not be measured again for the same system. Where the cable-trench item is used, excavation and backfilling

shall not be measured again for the same trench. Where the removal of an existing inverter is included in a new inverter item, the standalone removal item shall not also be claimed.

- questions on the Tender shall be raised ahead of the deadline for bid submission.

13. Evaluation and Award

The technical evaluation will assess the bidder's capability, multidisciplinary experience, understanding of the framework mechanism, methodology, staffing, proposed materials and ability to deliver dispersed call-off orders and to sustain the operation and maintenance obligations for a full year. Only technically compliant offers shall proceed to financial evaluation. The technical offer will be evaluated out of 70 points, with a minimum qualifying score of 49 points.

13.1 Mandatory requirements (PASS / FAIL)

The bidder must comply with the mandatory requirements below. Failure to meet any mandatory requirement will render the bid non-responsive and the bidder will not proceed to the technical scoring phase.

#	Technical mandatory requirement	PASS / FAIL	Evidence required
1	Bidder must submit the required technical datasheets and samples specified in Section 10. All datasheets shall be issued by the original manufacturer and shall clearly identify the brand and model offered.	**PASS/FAIL**	Submitted technical documents / samples
2	Bidder must propose at least one Electrical Engineer holding a university degree (B.SE.or higher) in electrical engineering. Minimum 3 years of experience in the design and installation of solar PV projects.	**PASS/FAIL**	CVs of proposed personnel / List of projects with involvement of proposed personnel
3	Bidder must propose at least one Civil or Structural Engineer holding a university degree (B.Sc. or higher) in civil engineering. Minimum 3 years of experience, including the structural design or supervision of steel structure, reinforced concrete foundations and roof/ground mounted installations.	**PASS/FAIL**	CVs of proposed personnel / List of projects with involvement of proposed personnel
4	Bidder must propose at least one Site Foreman with a minimum of 5 years of site supervision experience on construction and electrical works.	**PASS/FAIL**	CVs of proposed personnel / List of projects with involvement of proposed personnel
5	Bidder must demonstrate verifiable experience in solar PV installation AND in hybrid or battery storage systems AND solar water pumping within the last five years.	**PASS/FAIL**	Past experience and references
6	Bidder must accept in writing the 24-hour emergency attendance obligation for the full framework period and provide the emergency contact details. With the ability to mobilize to remote governorates, and conflict affected areas.	**PASS/FAIL**	Written acceptance and contact details
7	Ability to intervene in at 5 different locations at the same time.	**PASS/FAIL**	To submit a commitment letter and show the availability of 5 teams able to work independently at different locations

#	Technical mandatory requirement	PASS / FAIL	Evidence required
8	Any missing submittal (relevant experience, key personnel, list of machinery, methodology, work plan and schedule, datasheets).	**PASS/FAIL**	Submittals
9	Commitment letter confirming that the required insurance policy will be arranged once the contract is awarded.	**PASS/FAIL**	Commitment letter
10	Bidder must provide a written declaration of full acceptance of, and compliance with, all the terms, conditions, technical specifications and requirements of this Terms of Reference, without reservation or deviation.	**PASS/FAIL**	Commitment letter

13.2 Technical scoring

Criterion	Assessment basis	Score
Solar PV Projects	Relevant experience in solar PV, hybrid and battery storage. Evidence may include the bidder's own experience and declared specialist subcontractors. With handed over project value of 200,000 USD and above ***Scoring**: 6 or more projects, of USD 200,000 or above = 10;* *3 to 5 projects= 7;* *1 to 2 project; 4* *none=0*	**15%**
Solar water pumping	Solar water pumping projects (VFD-driven submersible or surface pumps, boreholes, water supply systems) completed in the last five years and with control system integration. ***Scoring**:* *4 or more projects = 10;* *2 to 3 project s= 5;* *1 project – 3;* *none = 0*	**10%**
Associated Civil, Structural and Electrical works	Demonstrated experience in the works surrounding solar installations: RC foundations, elevated steel structures, roof waterproofing, distribution boards.. ***Scoring**:* *Both civil/structural and electrical works evidence = 10;* *one discipline only = 5;* *none = 0*	**10%**
Available machinery, access equipment and test instruments	Adequacy and availability of plant, access equipment, lifting appliances and calibrated test instruments for PV, electrical and pumping works. **0** Very Poor — No adequate machinery/equipment; major gaps; no evidence of access to required equipment or calibrated instruments. **1-5** Acceptable — Basic equipment available and generally adequate, but some gaps or reliance on subcontracted/rented equipment. **6-9** Good — Adequate and readily available machinery, access/lifting equipment and calibrated test instruments for the required PV, electrical and pumping works. Good supporting evidence. **10** Excellent — Fully equipped with all machinery, access/lifting equipment and specialized calibrated test instruments required; immediately available, well maintained, and supported by complete documentary evidence.	**15%**

<table>
<tr><th>Criterion</th><th>Assessment basis</th><th>Score</th></tr>
<tr><td>Quality and understanding of requirements</td><td>Methodology (10), and understanding of the framework and the interfaces between sections (10).

<table><tr><th>Score Range /10</th><th>Evaluation</th></tr><tr><td>0–4</td><td>Poor – Inadequate methodology and limited understanding of the framework, scope, and interfaces between sections.</td></tr><tr><td>5–7</td><td>Acceptable / Good – Adequate methodology and reasonable understanding of the requirements and interfaces, with some gaps.</td></tr><tr><td>8–10</td><td>Very Good / Excellent – Clear, comprehensive and project-specific methodology with strong understanding of the framework, coordination, sequencing and interfaces between sections.</td></tr></table></td><td>20%</td></tr>
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TOTAL TECHNICAL SCORE: 70 points. Minimum qualifying score: 49 points.

Financial Score = (Lowest Financial Offer / Bidder Financial Offer) × 30. The lowest financial offer is the lowest-priced compliant bid, and the bidder financial offer is the consolidated priced total of the Bill of Quantities submitted by each technically qualified bidder, calculated on LRC's estimated twelve-month quantities.

LRC reserves the right to award the framework to one contractor, or to award it to more than one contractor where this is necessary to secure geographic coverage, in which purchase orders will be allocated by LRC at its sole discretion.