



Terms of Reference (ToR)

Procurement of Mobile Solar Power Training Units

1. Background

Shaqodoon is a local NGO established in 2011 to create innovative and sustainable solutions to address youth employment challenges in Somalia and Somaliland. The organization implements programs focused on livelihood skills, economic empowerment, education, and technology innovation.

Shaqodoon's mission is to expand employment and education opportunities for youth—particularly those who are marginalized, at risk, or excluded from economic participation—through practical, market-relevant training and mentorship programs.

2. About the Project

Shaqodoon, in consortium with ADRA, Windle International, and Save the Children International (SCI), is implementing a three-year EU-funded project titled *Initiative for Marketable Practices in Agribusiness, Circular Economy, and Technology (IMPACT)*.

The IMPACT project aims to:

- Strengthen sustainable and climate-resilient agri-food value chains;
- Increase access to renewable energy and water-efficient farming systems; and
- Support the transition to a circular and sustainable rural economy.

The project works closely with the Ministry of Education and the Ministry of Labour and Social Affairs to ensure alignment with national priorities and sustainability frameworks.

3. Purpose of the Assignment

The objective of this assignment is to procure durable, high-quality Mobile Solar Photovoltaic (PV) Power Generation Training Units (MTUs) that comply with international safety and performance standards.

These units will enable trainers and learners to conduct hands-on solar PV training both within TVET centers and in off-grid rural communities. Shaqodoon will oversee procurement and deployment, while consortium partners will support training implementation.

4. Scope of Work

The selected supplier will be responsible for the supply, delivery, installation, and commissioning of Mobile Solar PV Power Training Units that meet the technical and operational specifications provided in this ToR.

Specifically, the supplier will:

1. **Supply and Deliver:** Deliver fully assembled or semi-assembled units to designated TVET centers and partner locations across Somalia/Somaliland.
2. **Installation and Testing:** Conduct on-site installation, testing, and quality assurance to confirm full functionality.
3. **Training and Capacity Building:** Conduct a **Training of Trainers (ToT)** session for partner trainers on use, safety, and basic maintenance.
4. **Documentation and Warranty:** Provide user manuals, maintenance guides, warranty certificates, and an after-sales service plan.

All work should adhere to relevant safety, quality, and environmental standards.

5. Technical Specifications

Power System Components	Monitoring, Safety & Portability	Training & Support Tools
<p>Solar PV Modules: 100–200W total capacity, monocrystalline, weather-resistant with MC4 connectors.</p>	<p>Monitoring Instruments: Digital meters for voltage, current, and power output with charge/discharge indicators and LCD/LED display.</p>	<p>Training Manuals & Guides: Illustrated manuals, wiring diagrams, and practical exercises (English & Somali).</p>
<p>Charge Controller: PWM or MPPT, with protections (overcharge, deep discharge, reverse polarity, short circuit).</p>	<p>Casing: Suitcase-style portable case with wheels and handles; weather-resistant and lockable compartments.</p>	<p>Accessories: Multimeter, screwdrivers, wiring kit, and other basic tools for assembly and troubleshooting.</p>
<p>Battery Bank: Deep-cycle Gel or LiFePO₄, ≥12V/50Ah, rechargeable with Battery Management System (BMS).</p>	<p>Safety Features: Circuit breakers, fuses, grounding, surge protection, and emergency cut-off switch.</p>	<p>Training Loads: DC and AC loads (LED lights, small fan, USB charging, and radio or mini pump).</p>
<p>Inverter: Pure sine wave, ≥400–500W, 220V AC output with USB ports and low-battery cut-off.</p>		

6. Deliverables

The supplier is expected to deliver:

1. **Twenty (20) fully functional Mobile Solar PV Training Units**, meeting all technical specifications;
2. **Detailed product manuals, wiring diagrams, and safety instructions** in English (and Somali if available);
3. **Warranty certificates** covering all equipment for a minimum of **12 months**;
4. **A ToT session** for partner trainers on assembly, safety, troubleshooting, and maintenance;
5. **Delivery and installation report** confirming completion, functionality, and acceptance by Shaqodoon; and
6. **After-sales support plan** outlining service timelines and contact points.

7. Expected Outcomes

- Increased access to hands-on renewable energy training in TVETs and rural areas;
- Improved technical skills of youth and trainers in solar PV installation and maintenance;
- Enhanced institutional capacity for practical training delivery; and
- Increased community awareness of renewable energy opportunities.

8. Timeline

The procurement, delivery, and installation process must be **completed within six (6) weeks** from the date of contract signing.

9. Supplier Requirements

Suppliers must demonstrate:

- Valid registration and business license in Somalia/Somaliland;
- Proven track record in supplying renewable energy or technical training equipment;
- Capacity to deliver high-quality solar kits meeting international standards in Hargeisa, Moqdisho and Garowe;
- Ability to provide ToT, warranty, and after-sales support; and
- Delivery capacity within the stipulated timeframe.

13. Assessment and Evaluation Criteria

Evaluation Category	Criteria	Weight (%)
Technical Compliance	Compliance with required specifications and performance standards.	30%
Past Experience	Evidence of similar renewable energy or training kit supplies.	20%
Delivery Schedule	Timely delivery within 6 weeks and ability to provide ToT.	15%
Warranty & After-Sales Service	Warranty period, local service availability, and technical support plan.	10%
Financial Proposal	Cost competitiveness and value for money.	25%

Only suppliers scoring **at least 70%** in the technical evaluation will qualify for financial review.

14. Reporting and Handover

Upon successful delivery, the supplier must submit:

- A delivery and installation report;
- A ToT completion report; and
- Warranty and product documentation.

15. Submission of Proposals

Qualified suppliers are invited to submit their **technical and financial proposals**, including:

- Company profile and legal registration documents
- Technical compliance sheet;
- Financial quotation (inclusive of taxes, transport, and training);
- Delivery timeline; and
- Contact details of at least two previous clients.

All submissions should be sent electronically to: jobs@shaqodoon.org

Deadline for submission: 20 November 2025

Late or incomplete submissions will not be considered.