



**Request for Proposals reference n.# SNV/MOZ/GeraSol/RFP/2025/20**

*Date: November 11<sup>th</sup>, 2025*

Address: Av. Tomas Nduda nº:1214 Maputo City-  
Mozambique

**Subject:** Request for Proposals – Supply and Installation of Solar Photovoltaic Energy Laboratory Equipment

Dear Prospective Bidder,

SNV Mozambique, through its GeraSol Project, intends to enter into a contract for the Supply, Delivery, Installation, Testing, and Commissioning of Solar Photovoltaic Energy Laboratory Equipment. This assignment is funded by the Swiss Embassy and is therefore subject to the terms and conditions stipulated in the Master Agreement between SNV and the Swiss Embassy.

Proposals must be submitted by email to: [mozbid@snv.org](mailto:mozbid@snv.org);

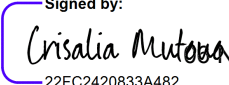
The deadline for submission is 10 December 2025 at 23:59 hrs (GMT+2, Mozambique local time).  
Proposals received after the deadline will be automatically disqualified.

Please find attached the following documents:

- **Request for Proposals (RFP)**
- **SNV\_GeraSol\_Supplier\_Compliance\_Sheet** (*editable template to be duly completed*)
- **SNV\_GeraSol\_Bid\_Submission\_Form\_and\_Price\_Schedule** (*editable template to be completed; may also serve as a reference if using your own format*)
- **Terms of Reference (ToR)** with detailed specifications of the required goods, equipment, and services

We appreciate your interest in working with SNV and look forward to receiving your proposal.

Best regards,

Signed by:  
  
22FC2420833A482... November 2025  
Crisalia Mutouo  
Country Operation Manager



## **Request for Proposals (RFP) for Legally Established Suppliers**

**Reference #: SNV/MOZ/GeraSol/RFP/2025/20**

**Deadline for submission 10 December 2025 at 23:59 hrs (GMT+2,  
Mozambique local time).**

### **SECTION 1**

#### **1.0 INSTRUCTIONS**

##### **1.1 INTRODUCTION**

**SNV** is a global development partner rooted in the African and Asian countries where we operate. With 60 years of experience and a team of approximately 1,600 people, it is our mission to strengthen capacities and catalyse partnerships that transform the agri-food, energy, and water systems to enable sustainable and more equitable lives for all.

###### **1.1.1. Purpose**

SNV Netherlands Development Organisation (SNV) Mozambique, through its GeraSol Project, invites qualified and experienced suppliers to submit proposals for the supply, delivery, installation, testing, and commissioning of Solar Photovoltaic Energy Laboratory equipment. The laboratory will be established at Instituto Industrial e Comercial de Nampula (IICN) in Nampula Province and aims to support vocational training in solar photovoltaic energy technology.

The primary objective of this RFP is to procure and install a small-scale Solar Photovoltaic Demonstration Laboratory to be used for training purposes, equipping students and instructors with hands-on skills in the operation, installation, and maintenance of PV systems.

It should be noted that the prices presented must be kept fixed for a minimum period of 90 (ninety) days from the date of submission of the proposals.

The selected Supplier will deliver the equipments to the SNV Nampula Premises in the address as indicated in the ToR, this should be done after the entire customs clearance process has been completed and the Supplier must also mention how soon it will take to deliver and install the equipments.

##### **1.2 SCOPE OF WORK**

The selected supplier shall be responsible for the following:

- Supply and delivery of all required Solar PV laboratory equipment and materials.
- Installation, integration, and configuration of all systems at IICN.
- Testing and commissioning of the complete laboratory system.



- Provision of user manuals and technical documentation.
- Training instructors and laboratory staff on the use and maintenance of the equipment.
- Provision of after-sales support and warranty for supplied equipment.

### 1.3 MINIMUM TECHNICAL SPECIFICATIONS

The laboratory should include, but not be limited to, the following equipment categories more detailed in the ToR:

- Solar PV training benches or kits (with modules, inverters, charge controllers, wiring, and instrumentation);
- Solar panels (monocrystalline or polycrystalline) rated 300W or higher;
- Inverter(s) and charge controller(s) suitable for training and demonstration;
- Battery bank with safe and durable storage technology (e.g., lithium-ion or sealed lead-acid);
- Mounting structures suitable for rooftop or ground installation;
- Cables, connectors, and protection devices (fuses, breakers, disconnects, grounding);
- Irradiance, voltage, and current sensors for data collection and monitoring;
- Safety gear and labeling materials;
- Data acquisition and monitoring system (optional but recommended).

### 1.4 CALL FOR PROPOSALS

The Prospective Bidders are invited to submit their tender documents via the e-mail address indicated in Section **"1.8-SUBMISSION INSTRUCTIONS"** so that they can be evaluated. SNV requires potential suppliers to provide mandatory information for bidding. All bidding suppliers must submit proposals that have at least minimum required specifications as listed in Section **"1.5 SUPPLIER QUALIFICATIONS"**. Failure to comply with this requirement may result in disqualification of the proposal.

### 1.5 SUPPLIER QUALIFICATIONS

Potential suppliers must provide evidence of experience of having successfully sourced and delivered similar items of similar size and complexity. Potential suppliers must demonstrate a willingness and commitment to meet the tender criteria.

Interested suppliers must meet the following minimum qualifications:

- At least three (3) years of proven experience in supply and installation of solar photovoltaic systems;
- Experience in supplying educational or laboratory training equipment is an advantage;
- Availability of qualified technical staff for installation and commissioning;
- Ability to provide after-sales support and warranty services;
- Submission of at least two (2) references for similar completed projects.

### 1.6 RFP DOCUMENTS/ PROPOSAL CONTENT

This document includes questionnaire forms and documents as indicated in the attachments that is required of potential suppliers.

To be considered for bidding, potential suppliers must submit all of the information requested herein. Proposals with incomplete information or documentation will not be accepted.



### 1.6.1. PROPOSAL CONTENT

Proposals must be submitted in two parts:

- a) **Technical Proposal** – describing compliance with specifications, methodology, installation plan, delivery schedule, and training plan.
- b) **Financial Proposal** – providing detailed itemized prices in MZN or USD, including taxes, delivery, installation, and training costs.

## 1.7 EVALUATION AND AWARD CRITERIA

The award will be made to a responsible bidder whose offer is the most responsive to the tender, meets the eligibility requirements, and meets or exceeds the minimum required technical specifications, and is judged to be the best value based on a lowest-price, technically acceptable basis.

An evaluation committee will be designated to review each proposal. SNV will be the sole judge of the proposals submitted under this RFP Tender. SNV reserves the right to accept or reject any or all offers, and to cancel the tender process and reject any or all offers for any reason at any time prior to award of the Service Agreement, without thereby incurring any liability to the affected bidder or bidders. During the evaluation, the bidder may be requested to supply additional information in writing concerning content and/or to clarify points in their responses.

The bidder shall bear all costs associated with the preparation and submission of its bid, and SNV will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

Please note that if there are significant deficiencies regarding responsiveness to the requirements of this tender, a bidder may be deemed “non-responsive” and thereby disqualified from consideration. SNV reserves the right to waive immaterial deficiencies at its discretion.

Best-offer proposals are requested. It is anticipated that award will be made solely on the basis of these original proposals. However, SNV reserves the right to conduct any of the following:

- SNV may conduct negotiations with and/or request clarifications from any Bidder prior to award.
- While preference will be given to bidders who can address the full technical requirements of this tender.
- SNV may cancel this tender at any time.
- SNV may reject any and all offers, if such action is considered to be in the best interest of SNV.

All complete proposals will be evaluated by SNV personnel according to the following criteria and only candidates who provides mandatory requirement will be considered for the subsequent steps of evaluations. Kindly note that the only shortlisted candidates will be contacted at each stage of the proposal’s evaluation, and complete feedback will be provided only to the bidders who are pre-selected and may be invited for an interview/ presentation during the proposal evaluation stage.

Proposal evaluation is weighted at 75% for Technical and 25% for financial considerations. Priority will be given to the vendor with the highest technical score:

Proposals will be evaluated using a weighted scoring system based on the following criteria:

- Compliance with technical specifications – 30%;
- Price / cost-effectiveness – 25%;
- Supplier experience and references – 15%;
- Warranty and after-sales support – 10%;
- Delivery and installation timeline – 10%;
- Training and local capacity-building – 10%.



## 1.8 SUBMISSION INSTRUCTIONS

All proposals must be submitted electronically to: [mozbid@snv.org](mailto:mozbid@snv.org); with the subject line: “**RFP – SNV/MOZ/GeraSol/RFP/2025/20-Solar PV Laboratory Equipment**”. Submissions must be received no later than the specified deadline [REDACTED]. Late submissions will not be considered.

The complete proposal and other requested information must be stamped and initialled by the duly authorized signatory.

[REDACTED]

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## 1.9 QUESTIONS ARISING FROM DOCUMENTS

Questions that may arise from the RFP documents should be addressed to the email: [mozbid@snv.org](mailto:mozbid@snv.org) and expect the response within 24h00.

## 1.10 ADDITIONAL INFORMATION/ TERMS AND CONDITIONS

**SNV** reserves the right to request the submission of additional information from potential suppliers. All data sent will be securely held by SNV and used for programming purposes only. The data will be destroyed after 5 years in accordance with national legislation.

- SNV reserves the right to accept or reject any or all proposals without assigning any reason;
- All prices shall be valid for at least 90 days from the submission deadline;
- Payment terms will be defined in the contract, subject to satisfactory delivery and installation;
- All equipment must be new, genuine, and covered by a minimum 12-month warranty;
- Delivery and installation must be completed within 90 days after contract signature

## SECTION 2

### 2.1 CONTRACT PRICE

The Contract Price would be based on the value of the bid/quotation and shall include all charges for duties, taxes and other relevant expenses such as importation and all customs expenses and clearances are also borne by the Supplier.

### 2.2 PAYMENTS & CURRENCIES

Payments are made within 30 days of receipt of the legally accepted Invoice, Delivery/Receipt Note of Goods, Services performance report, and other relevant documents. Payments will be made in MZN.

### 2.3 VALIDITY OF PROPOSALS

The proposals must be valid for at least 90 days from the day of submission.

## SECTION 3

### 3.1 CANCELLATION OF THE RFP

In the event that a condition arises between the time the company submitted the offer and the opening date which, in SNV's opinion, could substantially alter the performance and qualification of the Supplier or its ability



to perform, but not limited to bankruptcy, change in ownership or new commitment, SNV reserves the right to reject such Supplier's offer.

#### SECTION 4

##### **Attachments to the RFP**

- **SNV\_GeraSol\_Supplier\_Compliance\_Sheet** (*editable template to be duly completed*)
- **SNV\_GeraSol\_Bid\_Submission\_Form\_and\_Price\_Schedule** (*editable template to be completed; may also serve as a reference if using your own format*)
- **Terms of Reference (ToR)** with detailed specifications of the required goods, equipment, and services



## Projecto GeraSol

### Termos de referência para o fornecimento e montagem de Equipamentos e Materiais para Laboratório de Energia Solar Fotovoltaica do Instituto Industrial e Comercial de Nampula (IICN)

**Nome do projecto:** GerSol

**Implementado pela:** SNV Netherlands Development Organisation

**Dono:** Swedish International Development Cooperation Agency (SIDA).

**Donor line:** II.1.D.2 - Equipment, Tools & Facility Enhancements for IICN

**Contexto** A SNV é um parceiro de desenvolvimento global enraizado nos países africanos e asiáticos onde operamos. Com 60 anos de experiência e uma equipa de aproximadamente 1.600 pessoas, é nossa missão reforçar capacidades e catalisar parcerias que transformem os sistemas agroalimentar, energético e hídrico para permitir vidas sustentáveis e mais equitativas para todos. O projecto GeraSol é baseado no Programa de energias da SNV, que desde 2019 levou soluções solares domésticas e produtivas a mais de 3 milhões de moçambicanos e está sendo implementado na zona norte de Moçambique nas províncias de Nampula, Niassa e Cabo Delgado. O setor de energia fora da rede está crescendo rapidamente com a expansão das conexões de eletrificação e criação de oportunidades de emprego. A SNV trabalha com parceiros públicos e privados para desenvolver mercados de energia fora da rede. No âmbito de fortalecimento da capacidade institucional do Instituto Industrial e Comercial de Nampula a SNV pretende implementar um laboratório de energia solar fotovoltaica com o objetivo de fortalecer a formação técnica e prática dos estudantes nas áreas de energias renováveis, com foco em sistemas solares fotovoltaicos. Este laboratório será essencial para capacitar futuros técnicos na instalação, manutenção e operação de sistemas solares. Este TdR tem como objetivo orientar o processo de aquisição, fornecimento e instalação de material e equipamentos para o laboratório de energia solar fotovoltaica no IICN.

#### Objetivo da Aquisição

Fornecer e montar equipamentos e materiais necessários para a montagem funcionamento de um laboratório solar fotovoltaico completo, com capacidade para simular sistemas de 12V, 24V e 48V, permitindo formação e simulação práticas, técnicas e pedagógicas em diferentes configurações de sistemas fotovoltaicos no Instituto Industrial e Comercial de Nampula.



Descrição dos Equipamentos e Materiais

A lista inclui: Painéis solares, inversores, controladores de carga, baterias, quadros de distribuição, caixas de junção e derivação, cabos, conectores, terminais, estrutura de montagem, ferramentas, EPIs, etiquetas e kits de primeiros socorros e todo material que se mostre necessário para o uso efetivo do laboratório e que sejam adequados para a montagem do laboratório seguindo o esquema apresentado no anexo 1. A tabela 1, ilustra o mapa de quantidades dos equipamentos e materiais necessárias para o laboratório. Os sistemas para fins de aprendizagem serão de menor capacidade, com foco em unidades de até 2 kWp, adequadas para atividades práticas e laboratoriais no Instituto. Neste lote, deverá ser incluso também um sistema de 5 kWp, que será instalado para alimentar o laboratório e fornecer iluminação a alguns compartimentos do IICN, contribuindo para a funcionalidade e demonstração prática dos sistemas.

Tabela 1. Lista de equipamentos e Materiais

| LISTA DE EQUIPAMENTO & MATERIAIS |              |                                |         |                   |     |     |       |       |       |                                                   |
|----------------------------------|--------------|--------------------------------|---------|-------------------|-----|-----|-------|-------|-------|---------------------------------------------------|
| Seq.                             | COMPONENTES  | ESPECIFICACOES<br>(referencia) | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS                                       |
|                                  |              |                                |         | 12V               | 24V | 48V |       | Un    | TOTAL |                                                   |
| 1                                | Painel Solar | Policristalinos de 550w+       | Un      | 20                | 20  | 20  |       |       |       | Incluir modulos policristalinos e monocristalinos |

## LISTA DE EQUIPAMENTO & MATERIAIS

| Seq. | COMPONENTES                                                | ESPECIFICACOES<br>(referencia)                                                                                                              | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS                                                                                                                                |
|------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|-----|-----|-------|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------|
|      |                                                            |                                                                                                                                             |         | 12V               | 24V | 48V |       | Un    | TOTAL |                                                                                                                                            |
| 2    | Quadro de Painel Solar<br>(com Disjuntor &<br>Seccionador) | Conexão DC-Com<br>proteção contra<br>surtos transitórios<br>de 1000VDC,<br>fusíveis de 16A<br>1000VDC Com<br>conectores<br>multicontato MC4 | Un      | 5                 | 5   | 5   |       |       |       | Incluir diferentes<br>tipos de<br>dispositivos de<br>proteção contra<br>sobretensão<br>(DPS)                                               |
| 3    | Caixa de Juncao ( com<br>ligadores tipo DIN)               | Barra de Junção 12<br>Cond 10A/32A Sec<br>0.5-4mm                                                                                           | Un      | 5                 | 5   | 5   |       |       |       |                                                                                                                                            |
| 4    | Controlador de<br>Carga                                    | PWM e MPPT<br>12V/24V/10 a 20A                                                                                                              | Un      | 5                 | 5   | 5   |       |       |       | Incluir<br>Controladores de<br>modulação por<br>largura de pulso<br>(PWM) e de<br>rastreamento do<br>ponto de<br>potência máxima<br>(MPPT) |

## LISTA DE EQUIPAMENTO & MATERIAIS

| Seq. | COMPONENTES                                                                      | ESPECIFICACOES<br>(referencia)     | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS                                                                           |
|------|----------------------------------------------------------------------------------|------------------------------------|---------|-------------------|-----|-----|-------|-------|-------|---------------------------------------------------------------------------------------|
|      |                                                                                  |                                    |         | 12V               | 24V | 48V |       | Un    | TOTAL |                                                                                       |
| 5    | Caixa de Derivação (com ligadores tipo DIN)                                      | 2 módulos                          | Un      | 5                 | 5   | 5   |       |       |       |                                                                                       |
| 6    | Inversor Simples                                                                 | 500W/12V/24 com 99% de eficiencia  | Un      | 5                 | 5   | 5   |       |       |       |                                                                                       |
| 7    | Inversor Composto (C.Carga + Inversor + Interfaces de Paineis, Baterias e Carga) | 500W/12V/24 de 95% de eficiencia   | Un      | 1                 | 1   | 1   |       |       |       | Hibridos e Simples                                                                    |
| 8    | Bateria                                                                          | Lítio 48v/100ah                    | Un      | 20                | 20  | 20  |       |       |       | incluir tecnologia íons de lítio, especialmente a lítio ferro fosfato (LiFePO4) e Gel |
| 9    | Quadro de Distribuição em CA                                                     | CX QUADRO PRO (4x20) 80md P125 INT | Un      | 5                 | 5   | 5   |       |       |       | Dimensões 475x875x125                                                                 |
| 10   | Conversor de CC                                                                  | Conversor CC/CC                    | Un      | 5                 | 5   | 5   |       |       |       |                                                                                       |
| 11   | Cabo de Painel Solar                                                             | MTE-4mm; MTE-16mm para bateria     | bobina  | 2                 | 2   | 2   |       |       |       |                                                                                       |

## LISTA DE EQUIPAMENTO & MATERIAIS

| Seq. | COMPONENTES                                               | ESPECIFICACOES<br>(referencia) | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS |
|------|-----------------------------------------------------------|--------------------------------|---------|-------------------|-----|-----|-------|-------|-------|-------------|
|      |                                                           |                                |         | 12V               | 24V | 48V |       | Un    | TOTAL |             |
| 12   | Conector de Cabo de Painel Solar e conector macho e fêmea | MC4Y                           | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 13   | Cabo de Equipamento e Baterias - Vermelho / Azul          | 4mm                            | bobina  | 2                 | 2   | 2   |       |       |       |             |
| 14   | Cabo de Equipamento e Baterias - Preto                    | 16mm                           | bobina  | 2                 | 2   | 2   |       |       |       |             |
| 15   | Terminais de Cabo de Equipamento e bateria - PIN          | 16x8                           | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 16   | Terminais de Cabo de Equipamento e bateria - OLHAL        | 16x8                           | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 17   | Cabo de ligação de Quadros Elétricos                      |                                | bobina  | 2                 | 2   | 2   |       |       |       |             |

## LISTA DE EQUIPAMENTO & MATERIAIS

| Seq. | COMPONENTES                                               | ESPECIFICACOES<br>(referencia)                                                                                                              | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS |
|------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|-----|-----|-------|-------|-------|-------------|
|      |                                                           |                                                                                                                                             |         | 12V               | 24V | 48V |       | Un    | TOTAL |             |
| 18   | Terminais de Cabo de Ligação de Quadros elétricos - PIN   | Ponta: rolo; isolada; cobre; 1,5mm2; 8mm; Isolamento: polipropileno:<br>Ponta: rolo; isolada; cobre; 2,5mm2; 8mm; Isolamento: polipropileno | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 19   | Terminais de Cabo de Ligação de Quadros elétricos - OLHAL | Comprimento MÍN: 16 mm<br>MÁX: 120 mm:<br>Largura MÍN: 1,8 mm<br>MÁX: 5,4 mm                                                                | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 20   | Cabo de Terra Isolado de                                  | 10 mm2                                                                                                                                      | bobina  | 2                 | 2   | 2   |       |       |       |             |
| 21   | Terminais para cabo de Terra - PIN                        | Comprimento MÍN: 16 mm                                                                                                                      | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 22   | Terminais para cabo de Terra - OLHAL                      | MÁX: 120 mm:<br>Largura MÍN: 1,8                                                                                                            | caixa   | 2                 | 2   | 2   |       |       |       |             |



## LISTA DE EQUIPAMENTO & MATERIAIS

| Seq. | COMPONENTES                                         | ESPECIFICACOES<br>(referencia) | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS |
|------|-----------------------------------------------------|--------------------------------|---------|-------------------|-----|-----|-------|-------|-------|-------------|
|      |                                                     |                                |         | 12V               | 24V | 48V |       | Un    | TOTAL |             |
|      |                                                     | mm MÁX:<br>5,4 mm              |         |                   |     |     |       |       |       |             |
| 23   | Braçadeira tipo cinta                               | Plasticas - Pequenas           | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 24   | Braçadeira tipo cinta                               | Plasticas - Medias             | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 25   | Braçadeira tipo cinta                               | Plasticas - Grandes            | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 26   | Braçadeira tipo cinta                               | Metlicas - Media               | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 27   | Rolo de Fita Isoladora -                            | Vermelha/Azul                  | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 28   | Rolo de Fita Isoladora -                            | Preta                          | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 29   | Rolo de Fita Isoladora -                            | Verde & Amarela                | caixa   | 2                 | 2   | 2   |       |       |       |             |
| 30   | Estrutura de Montagem de Paineis Solar terreio      | INOX                           | Un      | 5                 | 5   | 5   |       |       |       |             |
| 31   | Estrutura de Montagem de Paineis Solar para o tecto | INOX                           | Un      | 20                | 20  | 20  |       |       |       |             |
| 32   | Cabo de Terra nu de 10 mm2                          | 10 mm2                         | bobina  | 2                 | 2   | 2   |       |       |       |             |

## LISTA DE EQUIPAMENTO & MATERIAIS

| Seq. | COMPONENTES                                                    | ESPECIFICACOES<br>(referencia) | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS                   |
|------|----------------------------------------------------------------|--------------------------------|---------|-------------------|-----|-----|-------|-------|-------|-------------------------------|
|      |                                                                |                                |         | 12V               | 24V | 48V |       | Un    | TOTAL |                               |
| 33   | Electrodos de terra de 1m                                      | 1m                             | Un      | 3                 | 3   | 3   |       |       |       |                               |
| 34   | Caixas de Visita de Terra                                      |                                | Un      | 2                 | 2   | 2   |       |       |       |                               |
| 35   | Tubo Corrugado VD110, para Estrutura de Cabos de Paineis Solar | VD110                          | bobina  | 1                 | 1   | 1   |       |       |       |                               |
| 36   | Espuma para tubo corrugado                                     |                                | caixa   | 1                 | 1   | 1   |       |       |       |                               |
| 37   | KIT de ferramenta para Sistema Solar Fotovoltaico de 25 Pecas  |                                | Un      | 5                 | 5   | 5   |       |       |       | incluindo aparelhos de medida |
| 38   | Maquina de Etiquetar com Pilhas e Carregador                   |                                | Un      | 1                 | 1   | 1   |       |       |       |                               |
| 39   | Rolos de Etiquetas para Maquina de Etiquetar                   |                                | Un      | 2                 | 2   | 2   |       |       |       |                               |

## LISTA DE EQUIPAMENTO & MATERIAIS

| Seq. | COMPONENTES                     | ESPECIFICACOES<br>(referencia) | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS |
|------|---------------------------------|--------------------------------|---------|-------------------|-----|-----|-------|-------|-------|-------------|
|      |                                 |                                |         | 12V               | 24V | 48V |       | Un    | TOTAL |             |
| 40   | KIT de Primeiro Socorro         |                                | Un      | 2                 | 2   | 2   |       |       |       |             |
| 41   | EPIs (capacete, luvas e oculos) |                                | KIT     | 24                | 24  | 24  |       |       |       |             |
| 42   | Multímetro Digital              | Automático - UNI-T UT61B+      | Un      | 8                 | 8   | 8   |       |       |       |             |
| 43   | Disjuntores Bipolar             | AC 32A                         | Un      | 15                | 15  | 15  |       |       |       |             |
| 44   | Disjuntores Bipolar             | AC 16A                         | Un      | 15                | 15  | 15  |       |       |       |             |
| 45   | Disjuntores Bipolar             | AC 10A                         | Un      | 15                | 15  | 15  |       |       |       |             |
| 46   | Quadro                          | De 6 moldes                    | Un      | 2                 | 2   | 2   |       |       |       |             |
| 47   | Lampadas LED de Rosca           | 10-30 w                        | Un      | 20                | 20  | 20  |       |       |       |             |
| 48   | Lampadas LED tipo Tubular       | 10-30 w                        | Un      | 20                | 20  | 20  |       |       |       |             |
| 49   | Barras de Junção                |                                | Un      | 5                 | 5   | 5   |       |       |       |             |
| 50   | Bocais                          |                                | Un      | 20                | 20  | 20  |       |       |       |             |
| 51   | Calhas                          |                                | Un      | 10                | 10  | 10  |       |       |       |             |
| 52   | Cabos PCN flexivel              | 1.5mm                          | bobina  | 2                 | 2   | 2   |       |       |       |             |
| 53   | Cabos PCN flexivel              | 2.5mm                          | bobina  | 2                 | 2   | 2   |       |       |       |             |



| LISTA DE EQUIPAMENTO & MATERIAIS |                             |                                |         |                   |     |     |       |       |       |             |
|----------------------------------|-----------------------------|--------------------------------|---------|-------------------|-----|-----|-------|-------|-------|-------------|
| Seq.                             | COMPONENTES                 | ESPECIFICACOES<br>(referencia) | Unidade | KIT vs Vref vs Qt |     |     | TOTAL | PRECO |       | COMENTARIOS |
|                                  |                             |                                |         | 12V               | 24V | 48V |       | Un    | TOTAL |             |
| 54                               | Tomadas Stank               |                                | Un      | 10                | 10  | 10  |       |       |       |             |
| 55                               | Interruptores simples       |                                | Un      | 10                | 10  | 10  |       |       |       |             |
| 56                               | Interruptores duplos        |                                | Un      | 10                | 10  | 10  |       |       |       |             |
| 57                               | Kit de berbequim com brocas |                                | Un      | 3                 | 3   | 3   |       |       |       |             |
| TOTAL                            |                             |                                |         |                   |     |     |       |       |       |             |



## Requisitos Técnicos e Normativos para Equipamentos e Materiais

- i. **Compatibilidade de Sistemas**  
Todos os equipamentos devem ser compatíveis com sistemas de alimentação de 12V, 24V e 48V.
- ii. **Normas de Segurança e Qualidade**  
Os materiais e equipamentos devem estar em conformidade com normas nacionais e internacionais de segurança e qualidade, como IEC, UL ou equivalentes.
- iii. **Garantia**  
Deve ser oferecida garantia mínima de 2 anos, contados a partir da montagem e entrega dos equipamentos.
- iv. **Certificações**  
Os concorrentes devem apresentar certificações exigidas que comprovem a conformidade dos equipamentos com os padrões mencionados.
- v. **Cabos e Instalação Externa**  
Os cabos utilizados devem ser:
  - Resistentes à radiação UV
  - Adequados para uso externo
  - Certificados para ambientes educacionais
- vi. **Documentação Técnica**  
Todos os manuais dos equipamentos e guíões de procedimentos de uso devem estar disponíveis em Língua Portuguesa, visando facilitar a compreensão e o uso adequado por parte dos usuários.

## Cronograma de Implementação

O cronograma proposto para implementação do laboratório está descrito na tabela 4 abaixo:

**Tabela 4. Cronograma**

| Atividade                                       | Prazo Estimado |
|-------------------------------------------------|----------------|
| Publicação do TdR e recepção de propostas       | 30 dias        |
| Avaliação das propostas e seleção do fornecedor | 5 dias         |
| Assinatura do contrato                          | 5 dias         |
| Entrega dos materiais                           | 90 dias        |
| Montagem e instalação do laboratório            | 15 dias        |
| Formação inicial dos técnicos e professores     | 15 dias        |



Anexo 1: SISTEMA FOTOVOLTAICO SOLAR



SOLAR PV LAB  
PROJECT PROPOSAL

Abdala Abdala

Signed by:  
  
77A9C419019940E...

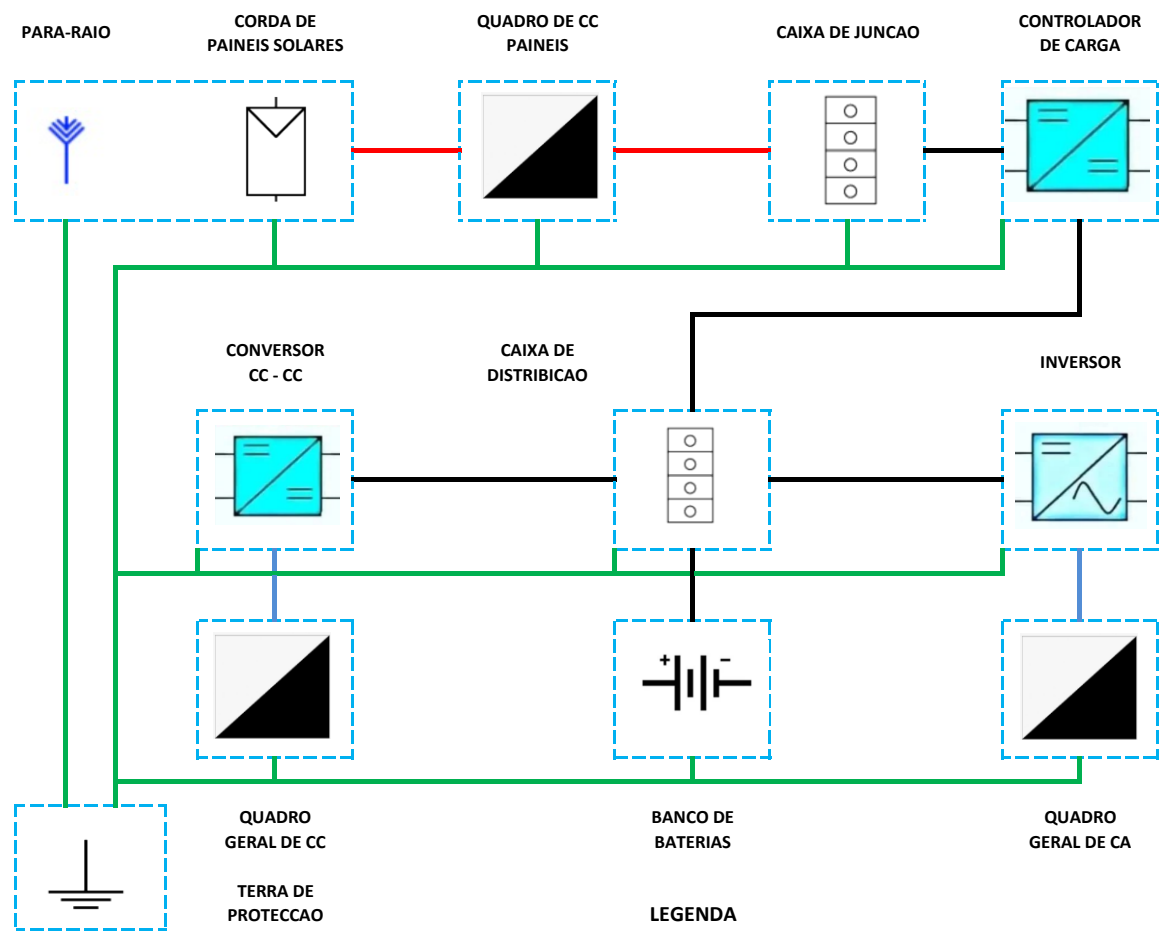
06 November 2025

Reginaldo Monjane

Signed by:  
  
712A7BDA815D4D7...

06 November 2025

SISTEMA FOTOVOLTAICO SOLAR



- Cabo de paineis solares - PV CABLE (H1Z2Z2-K, USE-2, RHW-2, THHN, XHHW, etc)
- Cabo de interligacao de equipamentos e banco de bateria - PBT
- Cabo de ligacao de quadros de CA & CC
- Cabo de terra - CABLE HO7Z-K



## ANNEX 3: BID SUBMISSION FORM AND PRICE SCHEDULE

**Project:** GeraSol Project – SNV Mozambique

**Tender Purpose:** Supply, Delivery, Installation, Testing, and Commissioning of Solar Photovoltaic Energy Laboratory Equipment

**Location for delivery and Instalation:** Instituto Industrial e Comercial de Nampula (IICN), Nampula Province

**RFP Reference:** SNV/MOZ/GeraSol/RFP/2025/20

### Section A: Bid Submission Form

To: SNV Mozambique – GeraSol Project

We, the undersigned, offer to provide the goods and related services for the Supply, Delivery, Installation, Testing, and Commissioning of Solar Photovoltaic Energy Laboratory Equipment in accordance with your Request for Proposals (RFP) and the Terms and Conditions contained therein.

We hereby submit our proposal, which includes the Technical and Financial Proposals. Our attached Financial Proposal includes all costs associated with the execution of the contract, including equipment, delivery, installation, training, and applicable taxes.

We confirm that our proposal will remain valid for a period of ninety (90) days from the date of submission, and we undertake to deliver and install the full laboratory within ninety (90) days after the contract signing.

We also understand that the SNV payment terms is 100% upon goods/ services delivery

We understand that SNV Mozambique is not bound to accept the lowest or any proposal it may receive.

#### Bidder Details

|                                            |  |
|--------------------------------------------|--|
| Name of Bidder / Company                   |  |
| Authorized Representative (Name and Title) |  |
| Business Address                           |  |
| Telephone Number                           |  |
| Email Address                              |  |
| Country of Registration                    |  |
| Signature and Date                         |  |



Section B: Price Schedule

The Bidder shall provide a detailed breakdown of the financial offer in the format below. All prices shall be quoted in MZN or USD and shall include delivery, installation, testing, training, and all applicable taxes.

| No. | Item Description | Unit of Measure | Quantity | Unit Price (MZN/USD) | Total Price (MZN/USD) |
|-----|------------------|-----------------|----------|----------------------|-----------------------|
| 1   |                  |                 |          |                      |                       |
| 2   |                  |                 |          |                      |                       |
| 3   |                  |                 |          |                      |                       |
| 4   |                  |                 |          |                      |                       |
| 5   |                  |                 |          |                      |                       |
| ... |                  |                 |          |                      |                       |

Summary of Costs:

|                                   |  |
|-----------------------------------|--|
| Subtotal (excluding taxes)        |  |
| VAT / Taxes                       |  |
| Grand Total (including all taxes) |  |

Section C: Delivery and Warranty Details

Proposed Delivery and Installation Period (days after contract signing):

\_\_\_\_\_

Warranty Period (months/years): \_\_\_\_\_

Authorized Signature: \_\_\_\_\_ Date:

\_\_\_\_\_

Name and Title: \_\_\_\_\_ Company Stamp:

\_\_\_\_\_

\* May this form serve as a reference if using your own format



## ANNEX 2: SUPPLIER COMPLIANCE SHEET

**Project:** GeraSol Project – SNV Mozambique

**Tender Purpose:** Supply, Delivery, Installation, Testing, and Commissioning of Solar Photovoltaic Energy Laboratory Equipment

**Location for delivery and Instalation:** Instituto Industrial e Comercial de Nampula (IICN), Nampula Province

**RFP Reference:** SNV/MOZ/GeraSol/RFP/2025/20

### Section A: Supplier Information

|                                         |  |
|-----------------------------------------|--|
| 1. Name of Supplier / Company:          |  |
| 2. Registered fully Address:            |  |
| 3. Country of Registration:             |  |
| 4. Contact Person (Name, Email, Phone): |  |
| 5. Website (if any):                    |  |
| 6. Tax Registration / NUIT Number:      |  |
| 7. Alvará Number:                       |  |

### Section B: Compliance Declaration

| No. | Compliance Requirement                                                                   | Yes                      | No                       | Please Comment and or provide corresponding Evidence |
|-----|------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------------------------------------------|
| 1   | Is the supplier based in Mozambique?                                                     | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |
| 2   | Does the supplier have a valid business registration and tax clearance certificate?      | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |
| 3   | Is the supplier's main line of business the supply of solar photovoltaic (PV) equipment? | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |
| 4   | Does the supplier have proven experience in installing PV systems?                       | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |
| 5   | Has the supplier completed at least two (2) similar projects within the past 3 years?    | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |
| 6   | Does the supplier have qualified technical staff to perform the installation?            | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |
| 7   | Will the supplier subcontract any part of the installation works?                        | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |
| 8   | Is the supplier capable of                                                               | <input type="checkbox"/> | <input type="checkbox"/> |                                                      |



|    |                                                                                                                                       |                          |                          |  |
|----|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--|
|    | providing after-sales support and maintenance services in Mozambique?                                                                 |                          |                          |  |
| 9  | Is the supplier able to replace defective equipment within the agreed warranty period in case of malfunction or manufacturer defect?  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| 10 | Does the supplier guarantee that all equipment supplied is new, genuine, and compliant with international standards (IEC, ISO, etc.)? | <input type="checkbox"/> | <input type="checkbox"/> |  |
| 11 | Does the supplier agree to deliver, install, and commission the equipment within 90 days after contract signing?                      | <input type="checkbox"/> | <input type="checkbox"/> |  |
| 12 | Does the supplier agree to provide training for IICN instructors and technicians?                                                     | <input type="checkbox"/> | <input type="checkbox"/> |  |

### Section C: Key requirements for bidders

- **Detailed specifications:** Provide comprehensive technical specifications for all equipment, including datasheets.
- **Cost breakdown:** Include a detailed breakdown of all costs, ensuring they are inclusive of taxes, transportation, and installation.
- **Warranty and lead time:** Clearly state the warranty for different components and provide a lead time for delivery and setup.
- **Training and support:** Detail any training or ongoing support that will be provided.
- **Company letterhead:** Submit the quotation on official company letterhead.
- **Meeting requirements:** Attend any compulsory briefing sessions and adhere to the deadline for submitting the quotation.
- **Compliance:** Ensure all equipment and installation methods comply with relevant local and international standards.

### Section D: Declaration

I, the undersigned, hereby declare that the information provided above is true and correct to the best of my knowledge. I understand that providing false or misleading information may lead to the rejection of my proposal or termination of contract.

|                   |  |
|-------------------|--|
| Name:             |  |
| Title / Position: |  |
| Organization:     |  |
| Signature:        |  |
| Date:             |  |