



Bid Information

Project: Engineering, Procurement and Construction of Hybrid PV-Diesel-Battery Energy Storage System

Location: Pulau Tiga, Maluku, Indonesia

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1 Request For Proposals (RFP) REQUIREMENTS

Proposals **must** be received by 29 July 2022 electronically to the following email addresses: tenders@mercycorps.org

NZMATES reserves the right to extend the period allowed for the submission of proposals. Depending on the Covid-19 Alert status in Ambon and Maluku due date might be extended to allow for site visits to take place in a safely and timely manner.

1.1 Important information

This RFP is to be used solely for information purposes to assist parties who have expressed an interest in lodging a proposal for the supply and installation of the Hybrid PV-Diesel-Battery Energy Storage System (BESS) and may not be used for any other purpose. This RFP does not purport to contain all the information that a prospective respondent may require.

Interested parties must:

- Conduct their own investigation and analysis of, and consult with their own advisers regarding, the proposed solution.
- Inform itself about and observe any legal requirements which may be applicable.
- Recipients of this RFP are reminded that they are bound by the Confidentiality Agreement they have signed in respect of all the information contained in this RFP.
- Note that NZMATES have taken every effort to present accurate information in the RFP and we welcome clarifications on the information in accordance with the prescribed method.

1.2 Clarifications

Any questions relating to this RFP **must be received at least 3 working days** preceding the Closing Date. We will endeavor to answer these as promptly as possible, however we:

- Reserve the right to decline to answer some or all questions for any reason.
- Shall make all questions and answers available to all recipients of the RFP, except where questions are defined as confidential.
- Consolidate similar/repeated questions into a single response.
- Note also that verbal communication is non-binding.

Clarifications shall be made to following email addresses: tenders@mercycorps.org

1.3 Site visit

Given the current COVID-19 situation across the world there will be tentative site visit arranged. Instead NZMATES has included a folder with additional pictures and videos that can provide better context to Bidders. Bidders are encouraged to send any clarification detail request, images, or other that can provide with a better context of the works to be carried out.

NZMATES will also arrange for at least one virtual meetings with all Bidders to allow for questions to allow for more detailed questions.

2 Proposal information

Proposals are to be submitted with the Subject line “Proposal for Pulau Tiga Hybrid PV-Diesel-BESS System”, to the following email addresses: tenders@mercycorps.org Proposals are to:

- Be structured as outlined in this document.
- Be provided in accordance with the schedule below.
- All bids should be submitted in IDR.

Please note that we reserve the right to refuse proposals received after the deadline. The indicative timeline for the RFP process is as follows:

Description	Date
Issue RFP	7th July 2022
Site visits	Optional, Site visit Not Mandatory due to Covid 19 situation (11th July 2022 – 5th Aug 2022)
Clarification questions due	7 th August 2022
Proposals due	11 th August 2022
Evaluation of proposals completed (tentative)	22 th September 2022

The successful respondent or respondents will be notified following our decision. We reserve the right to negotiate technical and commercial aspects before making our decision. Unsuccessful respondents will be notified promptly, and we are willing to offer feedback to respondents. On selection of a successful respondent, NZMATES and the winning respondent will enter into negotiations regarding the proposed terms and conditions of an agreement. The commencement of negotiations does not signify a commitment to enter into an agreement. A valid and binding agreement will only be formed on execution of an agreement mutually acceptable to the parties.

3 Terms and Conditions

The following rules apply to all proposals:

Once submitted, a proposal will be valid for a period of six months after the Closing Date. Except for obligations under the terms of this RFP and the requirements of the Confidentiality Agreement, no legal or other obligation arises. We reserve the right to:

- Change the project timescales.
- Reject or not consider any non-conforming proposal.
- Provide any information to, and liaise, negotiate, or contract with, any respondent or other person, without disclosing this to other parties.
- Not progress with or accept any proposal on reasonable grounds.
- Reject all proposals.
- Not give any reason for any rejection of any respondent or proposal.

Respondents must not directly or indirectly provide any form of inducement or reward to any director, officer, employee or representative of NZMATES. Respondents will be responsible for their own costs and expenses in relation to participation in this RFP and subsequent commercial negotiation, including site visit(s). All prices:

- Must be quoted Inclusive of Goods and Service Tax (“GST”) or Pajak Pertambahan Nilai (PPN) and in Indonesian Rupiah.
- Shall be deemed to include all direct, indirect and ancillary charges and costs.
- Be delivered under “Peraturan Presiden Republik Indonesia Nomor 16 Tahun 2018”.



4 Proposal form

4.1 Cover

A proposal cover sheet shall be provided with the following information:

- Organisation/Company name ("Respondent"):
- Full office address:
- Courier address:
- Office phone number:
- Contact person:
- Mobile phone (include code):
- Email address:
- Signed by or on behalf of the Respondent:

Signature

Signature

Name and Title

Name and Title

Date

Date

4.2 Format of proposal

The **proposal format shall be in accordance with the one outlined in this section.** Respondents must provide electronic copies of the proposal in Microsoft Word or PDF format. Such electronic copies must not contain any protection against changes. The **following information shall be included** as part of the Technical Proposal:

Section 1. Overview of company

To include company details and overview, such as:

- Organization structure chart.
- Office / warehouse locations.
- An outline of what you consider gives your company its competitive advantage.
- Relevant experience from up to three case study projects including contact details for references from the projects described.
- The name, title, address, phone, and email details of the contact person responsible for their proposal. Respondents must only specify one contact person. The respondent may change this person at any time by written notice.
- CVs, roles, and responsibility of key personnel to be used for the project, including at least:
 - Project Manager
 - Site Manager
 - Engineering designer
 - Civil works designer
 - Community engagement
 - Health and safety
 - Other personnel
- Local engagement plan and upskilling
 - Details and plan to use subcontractors and/or staff from Maluku
 - Details and plan to employ local workers in P. Tiga for works and/or services
 - Additional training provided to community, added-value

Section 2. Project plan

Include the following key milestones and describe the project implementation plan:

- Contract signing (expected)
- Site visit
- Completion of design works
- Site establishment
- Erection of PV arrays
- Powerhouse and perimeter fence remediation
- Switchgear and BESS installation
- Testing, commissioning and Sertifikat Laik Operasi (SLO)
- Training for operators
- Handover
- Include a work plan



- Include Gantt Chart with key deliverables and milestones

Section 3. Construction method statement

Include a detailed description of how Bidder proposes to deliver the system including:

- Logistics plan from manufacturers/suppliers to Ambon
- Method and plan for getting equipment to site
- Decommissioning of existing assets method and plan
- Waste management of existing assets method and plan
- Storage and security measures
- Any major plant or equipment items needed or any specialist tools that will be used to support provision of the services (e.g. pile driver)
- Any specific requirements expected from NZMATES and/or PLN during delivery of the project

Section 4. Proposed materials

Details of proposed materials, including the following for all major components:

- Datasheets
- Manufacturer warranty documents (where available)
- Proposed quantities (where not stated previously)
- Where major items are considered to be:
 - PV Panels
 - PV AC-Inverters
 - Battery Energy Storage System (BESS)
 - Battery inverters
 - MPPT charge controllers (if applicable)
 - AC and DC Cabling
 - Weather station components
 - Monitoring platform (optional)
- Design drawings for the system including
 - Site layout drawing
 - PV array layout & string wiring
 - PV mounting system (incl. foundations / pilings)
 - Proposed single line drawing of the complete system
 - Communications and monitoring
 - Block diagram
 - Proposed powerhouse internal layout drawing

Section 5. Health and Safety

Detail HSS protocols and specific measures to be used for this contract including:

- Information about your organization's Health and Safety Policy and Management
- COVID-19 safety protocols
- Socialization and community engagement feedback/complaint mechanism for pre-, during, and post-works.



Section 6. Modeling and simulations

This Section must include key outputs of the modelling and simulations done in PVSyst and HOMER Pro® that justify and confirm the components selected. All HOMER and PVSyst files shall be submitted. Key metrics to include as part of results of simulations of the proposed system (and any alternatives to it) are:

- LCOE
- Net present cost (NPC)
- Renewable energy fraction average over 20 years
- Renewable energy fraction year 1
- PV surplus average and year 1
- BESS throughput average and year 1

Section 7. Other management

Please include:

- Any existing or potential conflicts of interest for individuals in your organization, or for other organizations.
- A non-binding list of any subcontractors to be used in the project
- Proposed payment terms

4.3 Schedule of Rates

Complete the following schedule, which will form a part of the Contract Documents. This schedule will be used for work awarded as variations reference (addition and deductions) to the works specified in this document. All other variations will be considered separately.

	Subcategory	Unit	Cost per unit (USD)	Number of units	Total cost (USD)
01. Project Management	01 - PM Labour	Days			
	02 - Logistics/Procurement Labour	Days			
02. Design	01 - Electrical Design	Hours			
	02 - Civil/Structural Design	Hours			
	03 – Protection and Earthing	Hours			
	02 - External/Consultants	Hours			
03. Procurement	01. PV Modules	kWp			
	02. PV Array Framing	kWp			
	03. PV Inverters	kWac			
	04. PV DC Cabling & Distribution	m			
	05. BESS	kWh			
	07. Monitoring and Controls				
	08. Equipment/plant & Tools				
	09. Other BOS				
04. Freight & Duties	01. International Freight				
	02. In country freight (i.e. barges, road, air)				
	03. Duties/Clearance				
05. Installation	01. Site Management				
	02. Civil Works				
	03. Electrical works				
	04. Local Labour				
	05. Plant (mobile plant hire)				
06. Commissioning	01. Commissioning Labour	Days			
07. Travel & Accommodation	01. Travel				
	02. Accommodation & Allowances				
08. Overheads & Miscellaneous	01. Other professional fees				
	02. Insurance				
09. Taxes	GST				
Total					

4.4 System Summary and Performance Estimates

The following table is used to define the major project elements:

Item	Comments	Value
Solar PV panel size [Wp]		
Number of PV panels		
Total size of array [kWp]		
PV panel manufacturer and model number		
PV panel performance and product warranty length [Years]		
BESS supplier and model number		
BESS capacity [usable kWh capacity at the beginning of life]		
Number of BESS modules		
PV inverter manufacturer, nominal capacity [kW] and model number		
Number of PV inverters		
Battery inverter manufacturer, nominal capacity [kW], voltage [V] and model number		
Number of Battery inverters		
MPPT charge controller manufacturer, ratings [A] [V] and model number (if applicable)		
Number of MPPT controllers supplied		
Mounting system manufacturer, material type and model name		
Proposed array tilt and orientation [degrees]		
Diesel generator manufacturer, rated capacity [kW] and model number		

4.5 Tender Deviations

Bidder should use this section to provide any deviations from the proposed design and any variations on cost that result from the proposed deviations.

Proposed deviation	Cost of variation	Comments

5 Evaluation criteria

Proposals will be evaluated based on price and technical solution proposed. Moreover, weight will be given to experience in similar projects and to local working experience in Maluku. NZMATES will also give value to proposals with clear and sound HSS procedures, policies and plan. Innovative, robust, and creative solutions/approaches will also be part of the evaluation criteria. Finally, cross-cutting issues such as adequate environmental management plan, good environmentally-sound practices, and gender inclusion approaches will also be considered in the evaluation. In summary, proposals will be scored according to the following criteria:

	Score
Price	35%
Technical Proposal	30%
Experience in similar projects	10%
Local experience in Maluku	5%
Health and safety standards	10%
Innovative solution	5%
Cross-cutting issues (environmental management plan and gender inclusion approach)	5%