



UNIDADE DE GESTÃO DE PROJECTOS ESPECIAIS

CABO VERDE RENEWABLE ENERGY AND IMPROVED UTILITY PERFORMANCE PROJECT

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CLARIFICATION # 3

Country: Cabo Verde

Name of Project: Renewable Energy and Improved Utility Performance Project

Contract Title: Request for Bidding - Procurement of Plant, Design, Supply, and Installation for Five (5) Energy Storage Systems in FOGO Island, SANTO ANTÃO Island, SÃO NICOLAU Island, MAIO Island and BRAVA Island Cabo Verde

Loan No IBRD-92980

RFB Reference No.: 016/REIUP/UGPE_2

QUESTION 10: *Please provide the specific area that can be used to lay out the BESS provide the dimensions of the corresponding area as on the drawings.*

ANSWER N°10: Please refer to the Employer's Requirements and Annexes.

The bidder shall prepare the BESS platform in Fogo and Sao Nicolau. In Brava, Maio, and Santo Antao, the platform will be prepared by other. The available space is around 20 x 20m.

QUESTION 11: *Is there a defined cable path in the original power station?*

ANSWER N°11: Please refer to the Employer's Requirements and Annexes. All design shall be done by the bidder.

QUESTION 12: *Please provide the existing detailed distribution room location and room internal layout.*

ANSWER N°12: Please refer to the Employer's Requirements and Annexes.

The bidder shall provide all MV Equipment (switchgears...) and accessories to connect BESS to the 20 kV busbar. The drawing of the switchroom will be provided to the awarded bidder.

QUESTION 13: *Can you provide the existing equipment drawings of the switchroom and the number of spare switches and capacity information? As connected by cable.*

ANSWER N°13: Please refer to the Employer's Requirements and Annexes.

The bidder shall provide all MV Equipment (switchgears...) and accessories to connect BESS to the 20 kV busbar. The drawing of the switchroom will be provide to the awarded bidder.



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QUESTION 14: *Can the communication interface of the energy storage system and the existing distribution system be provided?*

ANSWER N°14: Please refer to the Employer's Requirements (appendix 5 – EMS).

Question 15: *Is there a preliminary geological report or existing power station geological report to be provided?*

ANSWER N°15: Soil study doesn't exist. The bidder shall realize the soil survey on Fogo and Sao Nicolau only. The Employer will provide the final design of the BESS platform in Brava, Maio, and Santa Antao to the awarded bidder.

QUESTION 16: *Is there a list of documents to be submitted during the bidding phase?*

ANSWER 16: Please refer to the ITB and Employer's requirements.

QUESTION 17: *Who is responsible for land acquisition?*

ANSWER 17: Lands are public and owned by the Government of Cabo Verde . Please refer to ESMP (Appendix 11.

QUESTION 18: *Is it necessary to meet all the certification requirements listed in 'General Requirements'? If yes, do I need to provide all the certificates? If no, is it necessary to meet the equivalent certification such as American Standard or GB despite of Eurocodes?*

ANSWER 18: Please refer to the Employer's Requirements (page 6-7):

“For the ESS components, it is preferred that Proponent comply with any applicable the Employer requirements when possible. However, should complying with these requirements for the ESS lead to considerable added costs, Bidders may take exception. Bidders shall note any exceptions.

The supplied equipment shall be designed, manufactured, and tested in accordance with the most current revision of the following applicable standards, codes, and regulations:”



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QUESTION 19: *Is it necessary to have CE mark for the whole system? Is it ok that we only have the mark for the components?*

ANSWER 19: Please refer to the Employer's Requirements (Appendix 1 – page 7)

QUESTION 20: *Does this mean every 150m has to cut off on the cable for grounding?"2 . 3 . 12 SINGLE CONDUCTOR CABLES GROUNDING The armor, shield and sheath shall be grounded at supply end only up to a maximum length of 150 m. Of the cables, the shield shall be grounded at 150 m intervals." E.x. a trasmission of 400m.*

ANSWER 20: Please refer to the Employer's Requirements (Appendix 6).

QUESTION 21: *What would be the total budget of this project in percentage of \$16M5?*

ANSWER 21: The Employer does not communicate the allocated budget.

QUESTION 22: *We have noted that page 12 of the "Employer Requirements V2.0 Appendix 1 - General Requirements P12" document states that all manufacturers of the specified equipment must hold valid certifications for ISO 9001, ISO 14001, and ISO 18001.*

All manufacturers for the above equipment manufacturer must hold current certification for compliance with ISO 9001, ISO 14001, and **ISO 18001**

Please be advised that the International Organization for Standardization (ISO) released the ISO 45001:2018 standard for Occupational Health and Safety Management Systems on March 12, 2018.

This standard has superseded the previous ISO 18001 standard.

Additionally, for your reference, we have included the official website link and a screenshot of the ISO 45001:2018 standard release information, which details the supersession of ISO 18001. This can be viewed at <https://www.iso.org/news/ref2272.html>

ISO 45001 will replace OHSAS 18001, the world's former reference for workplace health and safety. Organizations already certified to OHSAS 18001 will have three years to comply with the new ISO 45001 standard, although certification of conformity to ISO 45001 is not a requirement of the standard.



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In light of this, we plan to provide ISO 45001 certification for the suppliers of the above-mentioned equipment. We kindly request your confirmation on updating the requirement in the document concerning the necessity to hold ISO 18001 certification, to ensure alignment with the latest international standards.

We look forward to your confirmation and guidance so that we can make the necessary adjustments promptly.

ANSWER 22: As the ISO 45001 is the last updated OHS international standard, bidders shall provide ISO 45001 certification.

Bidders are requested to submit the standard requested in the Employers Requirements or the latest updates, if applicable.

QUESTION 23: Locations about SÃO NICOLAU ISLAND and Maio ISLAND

We noticed that for the third and fourth island projects at the document “Employer_Requirements_V2.0_Scope_of_work”, they had exactly the same latitude-longitude. Could you pls kindly help to advise the latitude and longitude for these islands separately?

13 SÃO NICOLAU ISLAND

The project will be located in Tarrafal de São Nicolau, São Nicolau Island. The ESS will be installed next to the Electra thermal power plant. An underground distribution line, at 20 kV, will be used to connect the battery directly to the power plant busbar.

1010-ALL-PRD-RFP-RV-1005

SECTION VII - EMPLOYER'S REQUIREMENTS
PLANT DESIGN, SUPPLY, AND INSTALLATION
FOR ESS IN FOGO, SANTO ANTÃO, SÃO NICOLAU, MAIO, AND
BRAVA

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The site location is at the following coordinates 16°32'47" N, and 24°20'52" W. An aerial view of the site is shown in Figure 7 below, and the location of the site relative to the thermal power plant is shown in Figure 8.





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The site location is at the following coordinates 16°32'47" N, and 24°20'52" W. An aerial view of the site is shown in Figure 10 below. The location of the Solar PV site is shown in Figure 12 as well the Thermal power plant.



Figure 10 - Localisation of the ESS Site (Maio)

ANSWER 23: Here are the GPS coordinates of the localization of ESS Maio: 15° 8'47" N and 23° 11'43" W. The coordinates of the three other sites are correct.

QUESTION 24: The Capacity of project Brava Island at beginning and end.

We noticed that in the document "Employer_Requirements_V2.0_Appendix_2-Battery Energy Storage System", Page 4, for Brava Island project has the same value at "Guaranteed capacity at the beginning of life" and "useable energy at the end of life".

Could you please kindly help to advise it?



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Section IV – Bidding Forms

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| | Nominal Power (MW) | Max Reactive power (MVAR) | Usable energy at end of life (MWh) | Cycling requirements (number/ day) | Guaranteed capacity at beginning of life (MWh) | Round-trip Efficiency (%) | Latency (ms) | Availability (%) |
|-------------|--------------------|---------------------------|------------------------------------|------------------------------------|--|---------------------------|--------------|------------------|
| Maio | 0.5 | 0.5 | 0.657 | 0.6 | 1 | 90 | <= 10 | 97 |
| Fogo | 2.08 | 2.08 | 1.37 | 0.8 | 2.08 | | | |
| Santo Antão | 1.4 | 1.4 | 1.31 | 0.8 | 2 | | | |
| São Nicolau | 0.5 | 0.5 | 0.657 | 0.6 | 1 | | | |
| Brava | 1.1 | 1.1 | 6.6 | 1.5 | 6.6 | 90 | | |

ANSWER 24:

1-The available BESS charge and discharge energy shall always be maintained equal or above 94 % of contracted value, by the 20 years lifetime. The maximum allowed energy capacity degradation by end of year-5 after acceptance is 0,5 %, and after that up to end of year-10 is 1 %, and after that up to end of year-15 is 2 %. (total of 0.5 % + 1 % + 1,75 % + 2,5 % = 6 % in 20 years).

2 - The available BESS charge and discharge power shall always be maintained equal or above 99 % of contracted value, throughout the 20 years lifetime.

QUESTION 25: *We noticed that some documentations in the folder "Annexes (Drawings) RFB-016 " cannot be loaded(Annex2.1/2.3/3.2). Would mind check for us?*



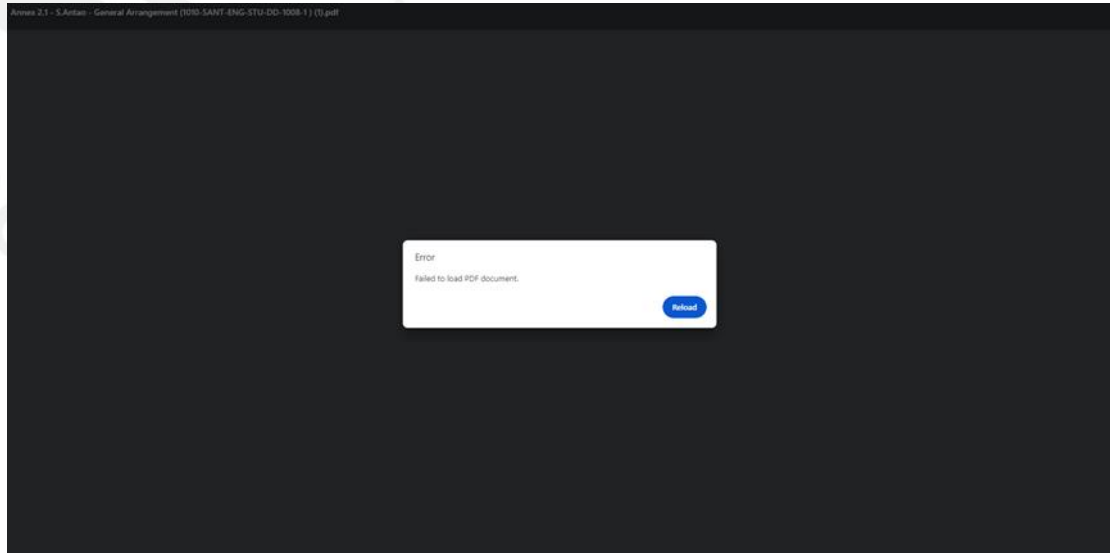
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ANSWER 25: Please see attached the available Annexes (Drawings).

The files can be now downloaded on the UGPE website: [Procurement of Plant, Design, Supply, and Installation for five \(5\) Energy Storage Systems in FOGO Island, SANTO ANTÃO Island, SÃO NICOLAU Island, MAIO Island, and BRAVA Island, Cabo Verde - UGPE \(gov.cv\)](#)

April 22, 2024