



## UNIDADE DE GESTÃO DE PROJECTOS ESPECIAIS

### CABO VERDE RENEWABLE ENERGY AND IMPROVED UTILITY PERFORMANCE PROJECT

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## CLARIFICATION # 1

**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 1:** *According to Employer\_Requirements\_V2.0\_Appendix\_2-Battery Energy Storage System, Page.5 & Employer\_Requirements\_V2.0\_Appendix\_3-Power Conversion System (PCS)*

The BESS shall have a **DC round-trip efficiency of > 90 %** when charged and discharged at **2 C**. The Contractor to indicate the efficiency of the system at the rated discharge and charge power levels and any degradation thereof as battery system ages.

**The ESS shall have an AC round-trip efficiency of >90 %** (measured at the inverter's AC terminals) when **charged and discharged at 2 C**. The Contractor to indicate the efficiency of the system at the rated discharge and charge power levels and any degradation thereof as battery system ages.

*According to the document Appendix-2, the system was charged and discharged at 2C. However, the battery should be 1C in term of the maximum operating power of PCS in Appendix-3.*

*Which is the right one, 2 C or 1 C?*

**Answer N°1 :** Please refer to the Employer's Requirements. The Bidder shall propose the best optimized technical proposal to meet all requirements.

**Question 2:** *Employer\_Requirements\_V2.0\_Scope\_of\_Work, Page.36, Ground investigation tests consisting primarily of topographic maps and soil resistivity tests are requested in the bidding documents at this stage.*

*Shall we run the test after the award of contract or is it necessary to provide it at bidding stage?*



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#### 8.1 STUDIES AND SURVEY

The Contractor shall supply as a minimum the following documents, as shown in Table 20:

Table 20 - Documents and Drawings Required based on Design Package

Deliverable	Proposal package	30 %	60 %	90 %	IFC	As Built
Survey						
Topographical Site Survey	X	X	X	X	X	X
Soil Survey	X	X	X	X	X	X

##### 8.1.1 TOPOGRAPHICAL SITE SURVEY

The Topographical site survey shall cover the following aspects:

- 10 meters beyond property line of the project.

##### 8.1.2 SOIL SURVEY

The soil survey shall cover the following aspects:

- Soil Resistivity test as per Wenner method.

#### 8.2 LAYOUTS

**Answer N°2 :** The document identified by a X in the column “Proposal Package” shall be provided within the technical proposal. The Employer does not request detailed soil and topographic studies at this stage. The Bidder shall provide soil and topographic surveys in order to evaluate the bid: The soil survey result shall allow the evaluation of the technical solution regarding the foundations of the containerized building (if any). The preliminary topographic survey shall allow to evaluate the quantity of civil works to be done (e.g. in Fogo).

April 9, 2024