



Ministério das Finanças
e do Fomento Empresarial

Unidade de Gestão
de Projetos Especiais

UNIDADE DE GESTÃO DE PROJECTOS ESPECIAIS

CABO VERDE RENEWABLE ENERGY AND IMPROVED UTILITY PERFORMANCE PROJECT

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CLARIFICATION # 8

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 53: *We've noticed that in the requirements of battery, some tests should be done in the condition of at 2C charge/discharge rate. However, after discussion with many manufacturers, they said for Lithium-ion battery, the maximum stable operational charge/discharge rate was 1C. It is even impossible to run test at 2C charge/discharge rate. Besides, regards of all your requirements about PCS, the maximum required charge/discharge rate of battery among all five islands on typical operation is 1C. Considering that the higher charge/discharge rate may be because of the emergency things or the degradation of batteries, we came up with a feasible solution and wanted to get your suggestion and agreement. We are going to large the capacity of battery so that even at end of life so that the PCS could still run at rated power. The enlarged capacity is listed in the last table. In that condition, the battery even have better performance compared to battery with 2C charge/discharge rate in both financial and technical part. We are sincerely looking forward to your suggestion. Thanks for your patience.*



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14	Self-discharge rate	%/month
15	Round trip DC efficiency @ 2 C charge and discharge rate, year 0	%
16	Round trip DC efficiency @ 2 C charge and discharge rate, year 10	%
17	Round trip DC efficiency @ 2 C charge and discharge rate, year 20	%

We will make sure the pcs could be able to run at its rated power at end of life

	Nominal Power (MW)	Max Reactive power (MVAR)	Useable 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			
Fogo	2.08	2.08	1.37	0.8	2.08			
Santo Antão	1.4	1.4	1.31	0.8	2	90	<= 10 ms	97
São Nicolau	0.5	0.5	0.657	0.6	1			
Brava	1.1	1.1	6.6	1.5	6.6			

	Guaranteed capacity at beginning of life we will provide (MWh)
Maio	1.5
Fogo	3.2
Santo antao	2.2
Sao Nicolau	1.5
Brava	10

ANSWER Nº 53: Please refer to the Clarification #1 - Answer #1.

QUESTION 54: Page 56 of Section III-Evaluation and Qualification Criteria in the bidding document "RfB_ESS_Final-MRV-versao-26-03-2024"

"Experiences as main contractor, joint venture member, subcontractor, or management contractor of Battery Energy Storage System and Medium Voltage substations, for at least the last eight (8) years"



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starting 1st January 2016."

Does it mean that bidders must have project experience in both battery energy storage systems and medium voltage substations in a previous project experience, or can they have separate project experience?

ANSWER N° 54: The Bidder shall demonstrate that he owns experience in both BESS and MV substations.

QUESTION 55: *Page 56 of Section III-Evaluation and Qualification Criteria in the bidding document "RfB_ESS_Final-MRV-versao-26-03-2024"*

"Experiences as main contractor, joint venture member, subcontractor, or management contractor of Battery Energy Storage System and Medium Voltage substations, for at least the last eight (8) years starting 1st January 2016."

Does it mean that bidders must have this kind of experience cover the date of 1st January 2016 until now, or can they have experience during this period but not start in 2016, for example, start in 2019 or later?.

ANSWER N° 55: The bidder shall provide relevant experiences within the last eight (8) years (since January 01, 2016)

QUESTION 56: *About the extension of the bidding submission time.*

Since receiving the bidding documents, we have been carefully studying the contents of the bidding documents. However, in order to better prepare for this bidding and provide a satisfactory bidding solution to the employer, may we be allowed to apply for an extension of the bidding submission deadline to July 20th, 2024?

ANSWER N° 56: At this point of time, the Employer does not expect to postpone the bid submission date.

May 13, 2024