



IFB No: MOE/STHRD/RJ/CRG/R2-RJ2-1

**Procurement of Supply of Equipment under
CRG/R2-RJ2 Implementing a Microgrid pilot
project at the Faculty of Technology, Rajarata
University of Sri Lanka.**

VOLUME II

**STHRD Project
Faculty of Technology
Rajarata University of Sri Lanka
Mihintale**

Closing Date 08.04.2024 @ 1400 hours

Section 2: Bid Data Sheet

A. General	
ITB 1.1	The number of the Invitation for Bids (IFB) is: MOE/STHRD/RJ/CRG/R2-RJ2-1
ITB 1.1	The Purchaser is: Deputy Project Director
ITB 1.1	<p>The name of the open competitive bidding (OCB) is: Procurement of Supply of Equipment under CRG/R2-RJ2 Implementing a Microgrid pilot project at the Faculty of Technology, Rajarata University of Sri Lanka.</p> <p>The identification number of the OCB is: STHRD/RJ/CRG/R2-RJ2-1</p> <p>The number and identification of lots comprising this OCB is: Only one lot Lot 1 - Equipment for Microgrid pilot project</p>
ITB 2.1	The Borrower is: The Democratic Socialist Republic of Sri Lanka
ITB 2.1	The name of the Project is: Science and Technology Human Resource Development Project (STHRD Project)
B. Contents of Bidding Document	
ITB 7.1	<p>For clarification purposes only, the Purchaser's address is:</p> <p>Attention: Senior Procurement Officer</p> <p>Street address: Project Implementation Unit, Science and Technology Human Resource Development Project Ground Floor Faculty of Technology Rajarata University of Sri Lanka Mihintale, ZIP code: 50300 Sri Lanka</p> <p>Telephone: 0714477898 Fax: 025 22 66 380 E-mail: sporj-sthrd@mohe.gov.lk</p>
C. Preparation of Bids	

ITB 10.1	The language of the Bid is: English
ITB 11.1 (i)	<p>The Bidder shall submit with its Bid the following additional documents: For private/government entities: a copy of the company/business constitution/incorporation/registration document showing the reference no and date and place of issue.</p> <p>Registration under Sri Lanka Sustainable Energy Authority</p> <p>For a joint venture: in addition to the appropriate information as above for each partner; a copy of the Joint Venture Agreement, or a Letter of Intent to enter into such an agreement together with a copy of the proposed agreement/memorandum.</p> <p>All documents to be signed by all legally authorized signatories of all the parties. in accordance with ITB 16.1 (a) and (b).</p> <p>Certificates, evidencing involvement in similar Schedule of Supply during the last 3 years.</p> <p>PCA 3 Certificate issued by the Public Contract Registrar of Sri Lanka. Audited Financial Statements as required</p>
ITB 12.2	The units and rates in figures entered into the Price Schedules should be typewritten or if written by hand, must be in print form. Price Schedules not presented accordingly may be considered nonresponsive.
ITB 13.1	Alternative Bids shall not be permitted.
ITB 14.5	The Incoterms edition is: Incoterms 2010
ITB 14.6 (a) (i), (ii) and (iii)	<p>For goods offered from within the Purchaser's country, the Bidder shall quote prices as per the price schedule "Price Schedule for Goods to Be Offered within the Purchaser's Country" with "Price Schedule for Related Services".</p> <p>The Bidder shall quote prices using following incoterms</p> <p>The prices of the goods quoted EXW in local currency. (Ex - Works, Ex – Factory, Ex-Warehouse. Ex-Showrooms or Off-the Shelf as applicable)</p>
ITB 14.6 (b) (i)	For Goods offered from outside the Purchaser's country, the Bidder shall quote prices as per the price schedule " Price Schedule for Goods to Be Offered from Outside the Purchaser's Country " with " Price Schedule for Related Services ".
ITB 14.6 (b) (ii)	In addition to the above, the Bidder shall quote prices for Goods offered from outside the Purchaser's country using the following Incoterms: Not Applicable

ITB 14.7	The prices quoted by the Bidder shall not be adjustable.
ITB 14.8	Prices quoted for lot shall correspond to 100 % of the items in the lot with all required accessories.
ITB 15.1	Payments shall be made strictly on the currencies quoted by the bidders The bidder quoted in foreign currencies shall have a foreign currency account to receive the payments
ITB 19.2	The Bidder is required to submit documentation to substantiate that it is an authorized local agent of the goods being procured. The manufacturer authorization should be available separately for this bid .The format is attached with the Section 4 Form of Bid. (any other document will not be accepted)
ITB 19.3	The Bidder is required to include with its bid, evidence that it will be represented by an Agent in the Purchaser's country.
ITB 20.1	The bid validity period shall be 119 days from the date of bid opening.
ITB 21.1	The Bidder shall furnish a bid security by one of followings. Obtain a un conditional bank draft from the Commercial Bank registered under the Central Bank of Sri Lanka in favor of Vice Chancellor, Rajarata University of Sri Lanka, The amount of the Bid security is LKR 600,000.00 or LKR 300,000.00 by cash deposit to A./C No.83804379 maintain at Bank of Ceylon Mihintale by Deputy Project Director, Science & Technology Human Resources Development Project. The bid Security should be valid for 147 days from the date of Bid opening (bid Security should be valid till 02.09.2024) (The format of the Bid security is attached in the Section 4 Bidding Forms)
ITB 21.2	The ineligibility period will not be applicable.
ITB 21.4	<i>[Choose one of the following options as appropriate]</i> No further instruction. <i>or</i> Subject to the succeeding sentences, any bid not accompanied by an irrevocable and callable bid security shall be rejected by the Purchaser as nonresponsive. If a Bidder submits a bid security that (i) deviates in form, amount, and/or period of validity, or (ii) does not provide sufficient identification of the Bidder (including, without limitation, failure to indicate the name of the Joint Venture or, where the Joint Venture has not yet been

	constituted, the names of all future Joint Venture Partners), also shall be rejected by the Purchaser as nonresponsive.
ITB 22.1	In addition to the original Bid, the number of copies is: 01 (One)
ITB 22.2	If the signatory of the bid does not have legally power to sign the bid, the written confirmation of Authorization to sign on behalf of the Bidder shall consist of a Power of Attorney is presented. The Bidder shall submit an acceptable authorization with the bid.
D. Submission and Opening of Bids	
ITB 23.1	Bidders shall submit their Bids by Post, Courier or by hand. <i>or</i> Bidders shall submit their Bids electronically. NOT APPLICABLE
ITB 23.1 (b)	Electronic bidding submission procedures shall be: NOT APPLICABLE
ITB 23.2 (c)	The additional identification marks are: NOT APPLICABLE
ITB 24.1	For bid submission purposes only, the Purchaser's address is: Attention: Deputy Project Director Address: Project Implementation Unit, STHRD Project, Ground Floor, Faculty of Technology, Rajarata University of Sri Lanka, Mihintale 50300 Sri Lanka
ITB 24.1	The deadline for bid submission is: Date: 08.04.2024 Time: 1400 hours. The pre-bid meeting will be held on 18.03.2024 @ 10.00hours all the interested bidders are welcomed to the meeting.

ITB 27.1	<p>The bid opening shall take place at: Project Implementation Unit, STHRD Project, Ground Floor, Faculty of Technology, Rajarata University of Sri Lanka, Mihintale Sri Lanka</p> <hr/> <p>Date:08.04.2024 Time: 1400 hours. (Soon after closing the bid)</p>
ITB 27.1	The electronic bid opening procedure shall be as follows: NOT APPLICABLE
ITB 27.3	The Bid Submission Sheet and Price Schedules shall be initialed by TWO representatives of the Purchaser attending Bid opening.
E. Evaluation and Comparison of Bids	
ITB 34.1	<p>The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in United State Dollars into a single currency is: LKR</p> <p>The source of the selling exchange rate shall be: Central Bank of Sri Lanka</p> <p>The date for the selling exchange rate shall be: Bid submission date given in ITB 24.1</p>
ITB 35.1	<p>Domestic preference Shall not apply.</p> <p><i>If domestic preference applies, insert “The application methodology will be as specified in Section 3 (Evaluation and Qualification Criteria).”</i></p>
ITB 38.2	The qualifications of other firms such as the Bidder’s subsidiaries, parent entities, or affiliates shall not be permitted.
ITB 40.1	Standstill provisions shall not apply.
F. Award of Contract	

ITB 42.1	The maximum percentage by which quantities may be increased is: Not applicable The maximum percentage by which quantities may be decreased is: Not applicable
ITB 46.1	The procedures for Bidding-Related Complaints are referenced in the Procurement Regulations for ADB Borrowers (Appendix 7). The Bidder should submit its complaint following these procedures, in writing, to: For the attention: Prof. Sujeewa Lewangamage Title/position: Project Director Purchaser: Science and Technology Human Resource Development Project E-mail address: pd-sthrd@mohe.gov.lk Fax number: 0112791278

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1. Evaluation Criteria

1.1 Technical Criteria

The cost of all quantifiable deviations or deficiencies from the technical requirements as specified in Section 6 (Schedule of Supply) shall be evaluated. The Purchaser will make its own assessment of the cost of these deviations or deficiencies for the purpose of ensuring fair comparison of Bids. **NOT APPLICABLE.**

1.2 Domestic Preference

If domestic preference is provided for under ITB 35.1, the following procedure shall apply: **NOT APPLICABLE**

1.3 Economic Criteria

1.3.1 Adjustment for Scope

1.3.1.1 Local Handling and Inland Transportation

Costs for inland transportation, insurance, and other incidental costs for delivery of the goods from the EXW premises, or port of entry, or border point to Project Site as defined in Section 6 (Schedule of Supply), shall be quoted in the Price Schedule for Related Services to Be Offered from Outside and Within the Purchaser's Country provided In Section 4 (Bidding Forms). These costs will be taken into account during bid evaluation. If a Bidder fails to include such costs in its Bid, then these costs shall be borne by the supplier.

1.3.1.2 Minor Omissions or Missing Items

Pursuant to ITB 32.3, the cost of all quantifiable nonmaterial nonconformities or omissions from the contractual and commercial conditions shall be evaluated. The Purchaser will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids.

1.3.2 Adjustment for Deviations from the Terms of Payment

Deviations from the Terms of Payment as specified in SCC 16.1 are not permitted.

1.3.3 Adjustment for Deviations in the Delivery and Completion Schedule

Deviations from the Delivery and Completion Schedule specified in Section 6 (Schedule of Supply) are not permitted.

1.3.4 Operation and Maintenance (O&M) Costs

Not Applicable

1.3.5 Spare Parts

Not Applicable

1.3.6 Performance and Productivity of the Goods

Not Applicable

1.4 Multiple Lots (Contracts)

If Goods and Related Services are grouped in multiple lots, the following provision must be used:

Goods are grouped in lots. The Purchaser will evaluate and compare Bids on the basis of a lot, or a combination of lots, or as a total of lots to arrive at the least cost combination for the Purchaser by taking into account discounts offered by Bidders in case of award of multiple contracts.

If a Bidder as defined in ITB 4.1 submits successful Bids for multiple lots (lowest evaluated substantially responsive Bids), the evaluation will also include an assessment of the Bidder's capacity to meet the aggregated qualifying requirements relating to: **Not Applicable**

2. Qualification Criteria

Contract Type A: Off-the-Shelf Items

2.1 Eligibility

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	

2.1.1 Nationality

Nationality in accordance with ITB 4.2.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bid Submission Sheet; Forms ELI – 1 and ELI - 2
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2.1.2 Conflict of Interest

No conflicts of interest in accordance with ITB 4.3.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bid Submission Sheet
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2.1.3 ADB Eligibility

Not having been declared ineligible by ADB, as described in ITB 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bid Submission Sheet
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2.1.4 Government-Owned Enterprise

Bidder required to meet conditions of ITB 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bid Submission Sheet; Forms ELI – 1 and ELI - 2
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2.1.5 United Nations Eligibility

Not having been excluded by an act of compliance with a United Nations Security Council resolution in accordance with ITB 4.8.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bid Submission Sheet
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2.2 Experience and Technical Capacity

2.2.1 Contractual Experience

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Successful completion at least 2 contract as main supplier within the last 5 years from 01.01.2019, valued not less than 40.Mn with nature, and complexity similar to the scope of supply described in Section 6 (Schedule of Supply).	Must meet requirement	Must meet requirement	Not applicable	Not applicable	Form EXP – 1 ^a

^a In addition to the submission of Form EXP-1, the Bidder shall provide the Signed Contract Agreement.

2.3 Financial Situation

2.3.1 Historical Financial Performance

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Submission of audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last 3 years to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for the last year calculated as the difference between total assets and total liabilities should be positive. (2022/2023)	Must meet requirement	Not applicable	Must meet requirement	Not applicable	Form FIN – 1

2.3.2 Size of Operation (Average Annual Turnover): Optional

Criteria	Compliance Requirements			Documents	
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	
Minimum average annual turnover of LKR 83.00Mn calculated as total payments received by the Bidder for contracts completed or under execution over the last 3 years. (2022/2023, 2021/2022, 2020/2021)	Must meet requirement	Must meet requirement	Must meet _____ of the requirement	Must meet _____ of the requirement	Form FIN – 2

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Bid Submission Sheet

- Note -

The Bidder must accomplish the Bid Submission Sheet on its letterhead clearly showing the Bidder's complete name and address.

Date: _____
 Open Competitive Bidding (OCB) No.: STHRD/RJ/CRG/R2-RJ2-1
 Invitation for Bid (IFB) No.: STHRD/RJ/CRG/R2-RJ2-1
 Alternative No.: _____

To: Vice Chancellor, Rajarata University of Sri Lanka

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We acknowledge that we have read and understand ADB's Anticorruption Policy (1998) and Integrity Principles and Guidelines (2015), both as amended from time to time.
- (c) We offer to supply in conformity with the Bidding Documents and in accordance with the delivery schedule specified in Section 6 (Schedule of Supply), the following Goods and Related Services: *[insert a brief description of the goods and related services]*
- (d) The total price of our Bid, excluding any discounts offered in item (d) below, is

[amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]

The total bid price from the price schedules should be entered by the bidder inside this box. Absence of the total bid price in the Bid Submission Sheet may result in the rejection of the bid.

- (e) The discounts offered and the methodology for their application are as follows:

Discounts: If our Bid is accepted, the following discounts shall apply: *[specify in detail each discount offered and the specific item of the Schedule of Supply to which it applies]*

Methodology of Application of the Discounts: The discounts shall be applied using the following method: *[specify in detail the method that shall be used to apply the discounts]*

- (f) Our Bid shall be valid for a period of *[insert validity period as specified in ITB 20.1 of the BDS.]* days starts from the date fixed for the bid submission deadline in accordance with ITB 24.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

- (g) If our Bid is accepted, we commit to obtain a Performance Security in accordance with the Bidding Documents.
- (h) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from eligible countries in accordance with ITB 4.2.
- (i) We, our directors, key officers, key personnel, including any subcontractors, consultants, subconsultants, manufacturers, service providers or suppliers for any part of the contract, do not have any conflict of interest in accordance with ITB 4.3.

If there is any conflict of interest, please state details:

- (i) Parties involved in the conflict of interest: _____
- (ii) Details about the conflict of interest: _____
- (j) We are not participating, as a Bidder, either individually or as partner in a Joint Venture, in more than one Bid in this bidding process in accordance with ITB 4.3(e), other than alternative offers in accordance with the Bidding Documents.
- (k) Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subconsultants, manufacturers, service providers or Suppliers for any part of the contract, are not subject to, or not controlled by any entity or individual that is subject to a temporary suspension or a debarment imposed by the Asian Development Bank; or a debarment imposed by the Asian Development Bank in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the Asian Development Bank and other development banks.¹
- (l) Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subconsultants, manufacturers, service providers or Suppliers for any part of the contract, are not under ongoing investigation and/or sanctions proceedings by the Asian Development Bank or any multilateral development bank.

If under ongoing investigation and/or sanction proceedings by the Asian Development Bank or any multilateral development bank, please state details:

- (i) Name of the multilateral development bank: _____
- (ii) Reason for the ongoing investigation/allegations: _____
- (m) Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subconsultants, manufacturers, service providers or Suppliers for any part of the Contract, are not temporarily suspended, debarred, declared ineligible, or subject to any national and/or international sanctions by any country, any international organization, any multilateral development bank and other donor agency.

If so temporarily suspended, debarred, declared ineligible, or subject to any national and/or international sanctions by any country, any international organization, any multilateral development bank and other donor agency, please state details (as applicable to each Joint Venture partner, their respective direct or indirect shareholders, directors, key officers, key personnel, associate, parent

¹These institutions include African Development Bank, European Bank for Reconstruction and Development (EBRD), Inter-American Development Bank (IADB), and the World Bank Group. According to paragraph 9 of the Agreement, other international financial institutions may join upon the consent of all Participating Institutions and signature of a Letter of Adherence by the international financial institution substantially in the form provided (Annex B to the Agreement). Upon adherence, such international financial institution shall become a Participating Institution for purposes of the Agreement. Bidders are advised to check www.adb.org/integrity for updates.

company, affiliate, subsidiaries, Subcontractors, consultants, subconsultants, manufacturers, service providers and/or Suppliers):

- (i) Name of Institution: _____
- (ii) Period of the temporary suspension, debarment, ineligibility, or national or international sanction [start and end date]: _____
- (iii) Reason for the temporary suspension, debarment, ineligibility, or national or international sanction: _____

- (n) Our firm, Joint Venture partners, associates, parent company, affiliates or subsidiaries', including any Subcontractors, consultants, subconsultants, manufacturers, service providers, Suppliers, key officers, directors and key personnel have never been charged or convicted with any criminal offense (including felonies but excluding misdemeanors) or infractions and/or violations of ordinance; nor charged or found liable in any civil or administrative proceedings in the last 10 years; or undergoing investigation for such, or subject to any criminal, civil or administrative orders, monitorship or enforcement actions.

If so charged, convicted/found liable, under ongoing investigation, or subject to orders, monitorship or enforcement actions, please state details:

- (i) Nature of the offense, violation, proceedings, investigation, and/or monitorship or enforcement actions: _____
- (ii) Court, area of jurisdiction and/or the enforcement agency: _____
- (iii) Resolution [i.e. dismissed; settled; or convicted/duration of penalty]: _____
- (iv) Other relevant details [please specify]: _____

- (o) Our firm, Joint Venture partners, our respective direct and indirect shareholders, directors, key officers, key personnel, associates, affiliates or subsidiaries, including any Subcontractors, consultants, subconsultants, manufacturers, service providers or Suppliers, can make and receive electronic fund transfer payments through the international banking system or otherwise discharge the Purchaser's obligation upon initiation of wire transfer.

If unable to make or receive funds through the international banking system or otherwise discharge the Purchaser's obligation upon initiation of wire transfer, please state the details:

- (i) Nature of the restriction: _____
- (ii) Jurisdiction of the restriction: _____
- (iii) Other relevant details: _____

- (p) Our firm, Joint Venture partners, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subconsultants, manufacturers, service providers or Suppliers, key officers, directors and key personnel are not from a country which is prohibited to export goods or services to, or receive any payments from the Purchaser's country and/or are not prohibited to receive payments for particular goods or services by the Purchaser's country by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations.

- (q) We understand that it is our obligation to notify the Purchaser of any changes in connection with the matters described in paragraphs (i), (k), (l), (m), (n), (o), (p) and (t) of this Bid Submission Sheet.

- (r) [We are not a government-owned enterprise] / [We are a government-owned enterprise but meet the requirements of ITB 4.5].²

² Use one of the two options as appropriate.

- (s) We have not been suspended nor declared ineligible by the Purchaser based on execution of a Bid-Securing Declaration in accordance with ITB 4.6.
- (t) We have paid, or intend to pay, either directly or indirectly, the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract:³

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____

- (u) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
- (v) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive.
- (w) At any time following submission of our Bid, We shall permit, and shall cause our Joint Venture partners, directors, key officers, key personnel, associates, parent company, affiliates or subsidiaries, including any Subcontractors, consultants, subconsultants, manufacturers, service providers or Suppliers for any part of the contract to permit ADB or its representative to inspect our site, assets, accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB. We understand that failure of this obligation may constitute obstructive practice that may result in debarment and/or contract termination.
- (x) Regardless of whether the contract will be awarded to us, we shall preserve all accounts, records and other documents related to bid submission for at least 3 years from the date of submission of the bid or the period prescribed in applicable law, whichever is longer.
- (y) If we are awarded the contract, we shall preserve all accounts, records and other documents related to the procurement and execution of the contract for at least 5 years after completing the works contemplated in the relevant contracts or the period prescribed in applicable law, whichever is longer.
- (z) We certify on behalf of the Bidder, that the information provided in the bid has been fully reviewed, given in good faith, and to the best of our knowledge is true and complete. We understand that it is our obligation to inform the Purchaser of any changes to the information as and when it becomes known to us. We understand that any misrepresentation that knowingly or recklessly misleads, or attempts to mislead may lead to the automatic rejection of the Bid or cancellation of the contract, if awarded, and may result in remedial actions, in accordance with ADB's Anticorruption Policy (1998, as amended to date) and Integrity Principles and Guidelines (2017, as amended from time to time).

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

³ If none has been paid or is to be paid, indicate "None."

**Price Schedule for Goods
to Be Offered from Within the Purchaser's Country**

Procurement of Supply of Equipment under CRG/R2-RJ2 Implementing a Microgrid pilot project at the Faculty of Technology,
Rajarata University of Sri Lanka
IFB No. MOE/STHRD/RJ/CRG/R2-RJ2-1

Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity and Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
1	2	3	4	5	6	7 = 5 x 6	8	9 = 7 + 8
1	Supply, Delivery & Testing of High Voltage Battery for 200kWh Above Battery Storage System			1				
2	Supply, Delivery & Testing of 50kW Hybrid Inverter			1				
3	Supply, Delivery & Testing of 50kW Solar Panels (Above 550W per panel)			100				
Total Amount								

Notes:

Column 4: In accordance with margin of preference ITB 35, if applicable.

Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 6: Incoterm in accordance with ITB 14
Currency in accordance with ITB 15

Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.

Column 8: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Goods to Be Offered from Outside the Purchaser's Country

Procurement of Supply of Equipment under CRG/R2-RJ2 Implementing a Microgrid pilot project at the Faculty of Technology,
Rajarata University of Sri Lanka
IFB No. MOE/STHRD/RJ/CRG/R2-RJ2-1

Item	Description	Country of Origin	Quantity and Unit of Measurement	Unit Price CIF (...) or CIP (...) US \$	Unit Price FOB (...) or FCA (...) US \$	Total Price CIF or CIP per Item US \$	Total Price FOB or FCA per Item US \$
1	2	3	4	5	6	7 = 4 x 5	8 = 4 x 6
1	Supply, Delivery & Testing of High Voltage Battery for 200kWh Above Battery Storage System			1			
2	Supply, Delivery & Testing of 50kW Hybrid Inverter			1			
3	Supply, Delivery & Testing of 50kW Solar Panels (Above 550W per panel)			100			
Total Amount							

Notes:
 Columns 5 and 6: Incoterm in accordance with ITB 14
 Currency in accordance with ITB 15

 Column 6: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

**Price Schedule for Related Services
to Be Offered from Outside and Within the Purchaser's Country**

Procurement of Supply of Equipment under CRG/R2-RJ2 Implementing a Microgrid pilot project at the Faculty of Technology,
Rajarata University of Sri Lanka
IFB No. MOE/STHRD/RJ/CRG/R2-RJ2-1

Item No.	Description	Country of Origin	Quantity and Unit of Measurement	Unit Price		Total Price per Item	
				(a)	(b)	(a)	(b)
				Foreign Currency	Local Currency	Foreign Currency	Local Currency
1	2	3	4	5(a)	5(b)	6(a) = 4 x 5(a)	6(b) = 4 x 5(b)
1	Supply, Delivery & Testing of High Voltage Battery for 200kWh Above Battery Storage System			1			
2	Supply, Delivery & Testing of 50kW Hybrid Inverter			1			
3	Supply, Delivery & Testing of 50kW Solar Panels (Above 550W per panel)			100			
Total Amount							

Notes:

Columns 5 and 6: Currencies in accordance with ITB 15

Prices are to be quoted inclusive of all customs duties, sales and other similar taxes applicable in the Purchaser's country and payable on the Related Services, if the Contract is awarded to the Bidder

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Bid Security Bank Guarantee

*[insert bank's name, and address of issuing branch or office]*⁴

Beneficiary: Vice Chancellor, Rajarata University of Sri Lanka
Date: *[insert date (as day, month, and year)]*
Bid Security No.: *[insert number]*

We have been informed that *[insert name of the bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated *[insert date (as day, month, and year)]* (hereinafter called "the Bid") for the execution of *[insert name of contract]* under Invitation for Bids No. *[insert IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *[insert name of bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount in words]* *[insert amount in figures]* upon receipt by us of your first demand in writing accompanied by a written statement, stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Bid Submission Sheet; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Agreement; or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This guarantee will expire (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder, or (ii) 28 days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revisions, ICC Publication No. 758.⁵

[Authorized signature(s) and bank's seal (where appropriate)]

⁴ All italicized text is for use in preparing this form and shall be deleted from the final document.

⁵ Or the Purchaser may use "Uniform Rules for Demand Guarantees (URDG), ICC Publication No. 458" as appropriate.

Bid-Securing Declaration

Date: *[insert date (as day, month, and year)]*

Bid No.: *[insert number of bidding process]*

Alternative No.: *[insert identification No if this is a bid for an alternative]*

To: *[insert complete name of the Purchaser]*

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the Borrower for the period of time of *[insert number of years indicated in ITB 21.2 of the BDS]* starting on the date that we receive a notification from the Purchaser that our Bid-Securing Declaration is executed, if we are in breach of our obligation(s) under the bid conditions, because we

- (a) have withdrawn our Bid during the period of bid validity specified in the Bid Submission Sheet; or
- (b) do not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract Agreement, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the ITB.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) 28 days after the expiration of our Bid.

Signed: *[insert signature of person whose name and capacity are shown]*

In the capacity of *[insert legal capacity of person signing the Bid-Securing Declaration]*

Name: *[insert complete name of person signing the Bid-Securing Declaration]*

Duly authorized to sign the bid for and on behalf of *[insert complete name of the bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Corporate Seal *(where appropriate)*

Manufacturer's Authorization

Date: *[insert date (as day, month, and year) of bid submission]*

OCB No.: *[insert number of bidding process]*

To: Vice Chancellor, Rajarata University of Sri Lanka

WHEREAS

We *[insert complete name of the manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of manufacturer's factories]*, do hereby authorize *[insert complete name of the bidder]* to submit a bid the purpose of which is to provide the following goods, manufactured by us *[insert name and/or brief description of the goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions, with respect to the goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of *[insert complete name of the manufacturer]*

Dated on _____ day of _____, _____ *[insert date of signing]*

-- Note --

All italicized text is for use in preparing this form and shall be deleted from the final document.

The bidder shall require the manufacturer to fill out this form in accordance with the instructions indicated. This letter of authorization should be signed by a person with the proper authority to sign documents that are binding on the manufacturer. The bidder shall include it in its bid, if so indicated in the Bid Data Sheet (BDS).

AFFILIATE COMPANY GUARANTEE

Name of Contract/Contract No. Procurement of Supply, Delivery, Testing and Commissioning of 30-Seater Brand-New Air-Conditioned Passenger Bus to the Faculty of Technology, Rajarata University of Sri Lanka. STHRD/RJ-V1

Name and address of Purchaser: Vice Chancellor, Rajarata University of Sri Lanka, Mihintale [together with successors and assigns].

We have been informed that [name of Contractor] (hereinafter called the "Contractor") is submitting an offer for the above-referenced Contract in response to your invitation, and that the conditions of your invitation require its offer to be supported by an affiliate company guarantee.

In consideration of you, the Purchaser, awarding the Contract to the Contractor, we [name of affiliated company] irrevocably and unconditionally guarantee to you, as a primary obligation, that (i) throughout the duration of the Contract, we will make available to the Contractor our financial, technical capacity, expertise and resources required for the Contractor's satisfactory performance of the Contract; and (ii) we are fully committed, along with the Contractor, to ensuring a satisfactory performance of the Contract.

If the Contractor fails to so perform its obligations and liabilities and comply with the Contract, we will indemnify the Purchaser against and from all damages, losses and expenses (including legal fees and expenses) which arise from any such failure for which the Contractor is liable to the Purchaser under the Contract.

This guarantee shall come into full force and effect when the Contract comes into full force and effect. If the Contract does not come into full force and effect within a year of the date of this guarantee, or if you demonstrate that you do not intend to enter into the Contract with the Contractor, this guarantee shall be void and ineffective. This guarantee shall continue in full force and effect until all the Contractor's obligations and liabilities under the Contract have been discharged, when this guarantee shall expire and shall be returned to us, and our liability hereunder shall be discharged absolutely.

This guarantee shall apply and be supplemental to the Contract as amended or varied by the Purchaser and the Contractor from time to time. We hereby authorize them to agree on any such amendment or variation, the due performance of which and compliance with which by the Contractor are likewise guaranteed hereunder. Our obligations and liabilities under this guarantee shall not be discharged by any allowance of time or other indulgence whatsoever by the Purchaser to the Contractor, or by any variation or suspension of the works to be executed under the Contract, or by any amendments to the Contract or to the constitution of the Contractor or the Purchaser, or by any other matters, whether with or without our knowledge or consent.

This guarantee shall be governed by the law of the same country (or other jurisdiction) that governs the Contract and any dispute under this guarantee shall be finally settled under the [Rules or Arbitration provided in the Contract]. We confirm that the benefit of this guarantee may be assigned subject only to the provisions for assignment of the Contract.

Signed by:..... (signature) (name) (position in parent/subsidiary company)	Signed by: (signature) (name) (position in parent/subsidiary company)
---	--

Date:.....

-- Note --

If permitted in accordance with ITB 38.2 of the BDS, the Bidder shall provide the Affiliate Company Guarantee Form filled out and signed by each subsidiary, parent entity, or affiliate that the Bidder submits for consideration of the Purchaser in determining its qualifications.

Bidder's Qualification

To establish its qualifications to perform the contract in accordance with Section 3 (Evaluation and Qualification Criteria), the Bidder shall provide the following information requested in the corresponding Information Sheets.

Form ELI - 1: Bidder's Information Sheet

Bidder's Information			
		Information of the Bidder	If the Bidder is a subsidiary or branch, information of any parent company/companies
Names	Full legal name(s)		
	Full trading name(s) (if any)		
Addresses	Registered address(es)		
	Trading address(es)		
	Postal address(es) (if different from trading address)		
Type of organization			
Country of constitution/incorporation/registration			
Year of constitution/incorporation/registration			
Corporate or registration number			
In case of a Joint Venture, legal name of each partner			
Bidder's authorized representative (name, address, telephone number(s), fax number(s) and e-mail address)			
<p>Attached are copies of the following documents:</p> <ol style="list-style-type: none"> 1. In case of a single entity, articles of incorporation or constitution and company incorporation/registration of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2 2. Authorization to represent the firm or Joint Venture named above, in accordance with ITB 22.2 3. In case of a Joint Venture, a letter of intent to form a Joint Venture or Joint Venture agreement, in accordance with ITB 4.1 4. In case of a government-owned enterprise, any additional documents not covered under 1 above required to comply with ITB 4.5 			

Form ELI - 2: Joint Venture Information Sheet

Each member of the Joint Venture must fill out this form separately.

Joint Venture Information			
Bidder's legal name			
		Information of Joint Venture Partner	If any Joint Venture Partner is a subsidiary or branch, information of any parent company/companies
Names	Full legal name		
	Full trading name(s) (if any)		
Addresses	Registered address(es)		
	Trading address(es)		
	Postal address(es) (if different from trading address)		
Type of organization			
Country of constitution/incorporation/registration			
Year of constitution/incorporation/registration			
Corporate or registration number			
Joint Venture Partner's authorized representative information (name, address, telephone number(s), fax number(s) and e-mail address)			
Attached are copies of the following documents: <ol style="list-style-type: none"> 1. Articles of incorporation or constitution and company incorporation/registration of the legal entity named above, in accordance with ITB 4.1 and ITB 4.2 2. Authorization to represent the firm named above, in accordance with ITB 22.2 3. In the case of a government-owned enterprise, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5 			

Form CON – 1: Historical Contract Nonperformance

For Contract type B, each Bidder must fill out this form in accordance with Criteria 2.2.1 and 2.2.3 of Section 3 (Evaluation and Qualification Criteria) to describe any history of nonperforming contracts and pending litigation or arbitration formally commenced against it.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner’s name:

Joint Venture Partner: _____

Table 1: History of Nonperforming Contracts			
<p>Choose one of the following:</p> <p><input type="checkbox"/> No nonperforming contracts.</p> <p><input type="checkbox"/> Below is a description of nonperforming contracts involving the Bidder (or each Joint Venture partner if Bidder is a Joint Venture).</p>			
Year	Description	Amount of Nonperformed Portion of Contract (\$ equivalent)	Total Contract Amount (\$ equivalent)
[insert year]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Purchaser: [insert full name] Address of Purchaser: [insert street/city/country] Reason(s) for nonperformance: [indicate main reason(s)]	[insert amount]	[insert amount]

Table 2: Pending Litigation and Arbitration			
<p>Choose one of the following:</p> <p><input type="checkbox"/> No pending litigation, arbitration or any other material events impacting the net worth and/or liquidity of the bidder.</p> <p><input type="checkbox"/> Below is a description of all pending litigation, arbitration involving the Bidder or any other material events impacting the net worth and/or liquidity of the bidder (or each Joint Venture partner if Bidder is a Joint Venture).</p>			
Year	Matter in Dispute	Value of Pending Claim in \$ Equivalent	Value of Pending Claim as a Percentage of Net Worth
[insert year]	Contract Identification, as applicable: [indicate complete contract name/ number, and any other identification] Name of Purchaser, parties involved in the material events impacting the net worth and/or liquidity of the bidder: [insert full name] Address of Purchaser, parties involved in the material events impacting the net worth and/or liquidity of the bidder: [insert street/city/country] Matter of Dispute: [indicate full description of dispute] Party who initiated the dispute: [indicate "Purchaser" or "Contractor"] Status: [indicate status of dispute]	[insert amount]	[insert amount]

- Note -

Table 2 of this form shall only be included if Criterion 2.2.3 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria) is applicable.

Form EXP - 1: Contractual Experience

Fill out one (1) form per contract. Each contract shall be supported by Signed Contract Agreement.

Contractual Experience		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> Manufacturer <input type="checkbox"/> Supplier <input type="checkbox"/> Subcontractor	
Total Contract Amount	\$	
If partner in a joint venture or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Purchaser's name Address Telephone/Fax Number E-mail		
Description of the Similarity in Accordance with Criteria 2.2.1 (Contract Type A) or 2.3.1 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria)		

- Note -

This form shall only be included if either Criterion 2.2.1 (Contract Type A) or 2.3.1 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria) is applicable.

Form EXP - 2: Technical Experience

Fill out one (1) form per contract. Each contract shall be supported by Signed Contract Agreement.

Technical Experience	
Name of Product	
Manufacturer:	Address and Nationality:
Requirements in Accordance with Criterion 2.3.2 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria)	
(i) Product has been in production for at least years.	
(ii) Product (or equipment) has been sold a minimum of units of similar type and specification over the last three (3) years.	
(iii) Product has been in operation for a minimum of years.	

- Note -

This form shall only be included if Criterion 2.3.2 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria) is applicable. Add pages as necessary. The Purchaser reserves the right to verify authenticity of Bidder submissions.

Form EXP - 3: Production Capacity

Fill out one (1) form per product and manufacturer.

Production Capacity	
Name of Product	
Manufacturer:	Address and Nationality:
Requirements in Accordance with Criterion 2.3.3 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria)	
Production facility 1 (include location):	
Production facility 2 (include location):	
Production facility 3 (include location):	

- Note -

This form shall only be included if Criterion 2.3.3 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria) is applicable. The Purchaser reserves the right to verify authenticity of Bidder submissions.

Form FIN - 1: Historical Financial Performance

Each Bidder must fill out this form.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name:

Joint Venture Partner: _____

Financial Data for Previous ____ Years [\$ Equivalent]		
Year 1:	Year 2:	Year __:

Information from Balance Sheet

Total Assets (TA)			
Total Liabilities (TL)			
Net Worth = TA-TL			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital = CA - CL			

Most Recent Working Capital		To be obtained for most recent year and carried forward to FIN - 3 Line 1; in case of Joint Ventures, to the corresponding Joint Venture Partner's FIN - 3.
-----------------------------	--	---

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last ____ years, as indicated above, complying with the following conditions:

- 1) Unless otherwise required by Section 3 of the Bidding Documents, all such documents reflect the standalone financial situation of the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries, or affiliates.
- 2) Historical financial statements must be audited by a certified accountant.
- 3) Historical financial statements must be complete, including all notes to the financial statements.
- 4) Historical financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

- Note -

This form shall only be included if Criterion 2.3.1 (Contract Type A) or 2.4.1 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria) is applicable.

Form FIN - 2: Size of Operation (Average Annual Turnover)

Each Bidder must fill out this form.

The information supplied should be the Annual Turnover of the Bidder or each partner of a Joint Venture for the total certified payments received from the clients for contracts in progress or completed, converted to US dollars at the rate of exchange at the end of the period reported.

In case of a Joint Venture, each Joint Venture Partner must fill out this form separately and provide the Joint Venture Partner's name:

Joint Venture Partner: _____

Annual Turnover Data for the Last . . . Years			
Year	Amount Currency	Exchange Rate	\$ Equivalent
Average Annual Turnover			

Note
 This form shall only be included if Criterion 2.3.2 (Contract Type A) or 2.4.2 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria) is applicable.

Form FIN - 3: Cash Flow Capacity

Specify proposed sources of financing, such as working capital, liquid assets,⁶ lines of credit, and other financial resources (other than any contractual advance payments) available to meet the cash flow requirements indicated under Criterion 2.4.3 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria).

Financial Resources		
No.	Source of financing	Amount (\$ equivalent)
1		
2		
3		

- Note -

This form shall only be included if Criterion 2.4.3 (Contract Type B) of Section 3 (Evaluation and Qualification Criteria) is applicable.

⁶ Liquid assets mean cash and cash equivalents, short-term financial instruments, short-term available-for-sale-securities, marketable securities, trade receivables, short-term financing receivables, and other assets that can be converted into cash within one (1) year.

Section 6: Schedule of Supply

Contents

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2. Delivery and Completion Schedule	6-Error! Bookmark not defined.
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1. List of Goods and Related Services

Lot Name: Procurement of Supply of Equipment under CRG/R2-RJ2 Implementing a Microgrid pilot project at the Faculty of Technology, Rajarata University of Sri Lanka				
Item No.	Name of Goods or Related Services	Description	Unit of Measurement	Quantity
1	Supply, Delivery & Testing of High Voltage Battery for 200kWh Above Battery Storage System	Supply & Delivery to the Faculty of Technology, Rajarata University of Sri Lanka, Mihintale	Nos	1
2	Supply & Delivery of 50kW Hybrid Inverter	Supply & Delivery to the Faculty of Technology, Rajarata University of Sri Lanka, Mihintale	Nos	1
3	Supply, Delivery & Testing of 50kW Solar Panels (Above 550W per panel)	Supply & Delivery to the Faculty of Technology, Rajarata University of Sri Lanka, Mihintale	Nos	100

Delivery & Completion Schedule

The delivery period shall start as of from the date of **Signing of Agreement**

Item No.	Description of Goods or Related Services	Delivery Schedule (Duration)	Location	Required Arrival Date of Goods or Completion Date for Related Services
1	Supply, Delivery & Testing of High Voltage Battery for 200kWh Above Battery Storage System	Within 120 Days from signing of agreement	Faculty of Technology, Rajarata University of Sri Lanka, Mihintale	Within 120 Days from signing of agreement
2	Supply & Delivery of 50kW Hybrid Inverter	Within 120 Days from signing of agreement		Within 120 Days from signing of agreement
3	Supply, Delivery & Testing of 50kW Solar Panels (Above 550W per panel)	Within 120 Days from signing of agreement		Within 120 Days from signing of agreement

2. Technical Specifications

Lot 1 Item 1: Technical specifications for Procurement of Supply of Equipment under CRG/R2-RJ2 Implementing a Microgrid pilot project at the Faculty of Technology, Rajarata University of Sri Lanka Schedule "A" Specification compliance to the Item 1 Supply & Delivery of High Voltage Battery for above 200kWh Battery Storage System

No	Item	Specification	Bidders Response "Yes/No"	If "No" bidder's offer offered
1	Brand Name	Specify		
2	Model	Specify		
3	Country of Origin	Please specify (Should be ADB Member country (see Annexure 1))		
4	Country of Manufacture	Please specify (Should be ADB Member country (see Annexure 1))		
5	Manufacturer Authorization	Should be available and original send to "sporj-sthrd@mohe.gov.lk"		
6	Product Brochure	Attached		
7	Cell Chemistry	LiFePO4		
8	Module Energy	Mention		
9	Module Capacity	Mention		
10	Battery Module Qty in Series	Mention		
11	System Nominal Voltage	500V Above		
12	System Energy (kWh)	Mention		
13	System Usable Capacity	90% DOD		
14	Charge/ Discharge Current	50-100A		
15	Battery Type	Smart Communication BMS		
16	Working Temperature (°C)	Charge: 0~55/Discharge: -20~55		
17	Status Indicator	Mention		
18	IP Rating	≥IP20		
19	Battery Parallel Communication	Supported		
20	Communication Port	CAN2.0/ RS485		
21	Cycle Life	≥6000(@25°C±2°C		
22	Quality standard	RoSH/ISO9001/ISO 14001/IEC/FCC		
23	Weight	Mention		
24	Warranty Minimum	5 years		

Signature of the bidder with Stamp Date

Schedule "B" Specification compliance to the Item 2 Supply & Delivery of Supply & Delivery of Hybrid Inverter

No	Item	Specification	Bidders Response "Yes/No"	If "No" bidder's offer offered
1	Brand Name	Specify		
2	Model	Specify		
3	Country of Origin	Please specify (Should be ADB Member country (see Annexure 1))		
4	Country of Manufacture	Please specify (Should be ADB Member country (see Annexure 1))		
5	Manufacturer Authorization	Should be available and original send to "sporj-sthrd@mohe.gov.lk"		
6	Product Brochure	Attached		
7	(a)Inverter Type	Hybrid Inverter		
8	Battery Type	Lithium Ion / LiFePO4		
9	Battery Voltage Range (V)	160-800V		
10	Number of Battery Input	Mention		
11	Communication with BMS	RS485, CAN		
12	Max PV Input DC Power	Mention		
13	Max PV Input Voltage	1000-1100V		
14	Rated AC Output	50kW		
15	Peak Power (Off Grid)	Mention		
16	Rated Grid Voltage	230/400Vac		
17	Rated Grid Frequency	50 Hz		
18	Maximum AC Output Apparent Power	Mention		
19	Power Factor	Mention		
20	Operating Temperature Range	-40 to +60°C		
21	Cooling Method	Mention		
22	Noise (dB)	≤65 dB		
23	Protection Rating	IP 65 or Above		
24	Grid Connection Method	3L+N+PE		

25	Surge Protection	Mention		
26	Efficiency	Minimum 96%		
27	Short Circuit Proof	Required		
28	Insulation Resistor Detection	Required		
29	Reverse Polarity Protection	Required		
30	Display	Integrated		
31	Certificate	IEC 61727, IEC 62116, IEC 62109, VDE 0126		
32	Safety Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
33	Manufacture Warranty	10 Years		
34	Product Experience	5 Year		

Signature of the bidder with Stamp Date

Specifications/standards/requirements for Inverter (or Power conditioning unit)

1. The Inverter operation shall be based on Maximum Power Point Tracking (MPPT) principle.
2. The grid interconnection protection scheme required (shall be as per the standards and
3. Requirement specified by the Ceylon Electricity Board) at the grid interface may be built in to inverter or separately provided (Most of the modern Inverters are equipped with this protection scheme as a built-in capability). The Bidders are expected to study and understand the protection scheme required at the grid interface prior to choose the Inverter.
4. Inverter shall be protected against incorrect polarity of DC input.
5. The power quality of the Inverter output shall be as specified by the Ceylon Electricity Board.
6. The nominal Inverter power output shall be delivered to the existing low voltage network at three (03) phases, 400V, 50 HZ.
7. The operating range of the Inverter shall be +/- 10% nominal voltage and -6% / +4% of power frequency. These settings should be adjustable to set the Inverter operating range.
8. The required system AC capacity to be met using multiple 3-ph inverters
9. The Inverter efficiency shall be 96% or more.
10. The applicable IP class shall be IP 65 or higher as per IEC 62208 specifications.
11. Shall be built with capability to synchronize with low voltage grid.
12. Shall be built with capability to log data, remote monitoring and data transferring to remote computer.
13. Shall be built with capability to protect against incorrect polarity. m. Inverters shall be warranted for a minimum of ten (10) years.
14. The Inverters should be grid interactive and also DG set interactive if necessary. Inverter output should be compatible with the grid frequency. Typical technical features of the inverter in addition to the above shall be as follows:
 - i. Grid Frequency Synchronization range: +/- 3Hz

ii. Maximum Input DC Voltage: Depending on the inverter used. (Shall not exceed overloading limits as specified by manufacturer)

iii. No-load losses: Less than 1% of rated power.

iv. THD: < 3%

15. Inverters shall be capable of complete automatic operation including wake-up, synchronization & shutdown.

16. Inverters should comply with applicable IEC standard for efficiency measurements and environmental tests as per standard codes IEC 61683 and IEC 60068 2(6, 21, 27, 30, 75,78). The MPPT units should qualify IEC 62093 and IEC 60068 2 (6, 21, 27, 30, 75, 78).

17. Inverters should comply with IEEE 1547 (and IEC 62116) for islanding protection and interconnecting with grid as required by CEB.

18. Inverters should be tested and approved by internationally recognized test houses.

19. Should be capable of generating 3 phase AC power which suits the local grid code.

20. The bidder should be an Authorized Representative to market and service this product in Sri Lanka or should be purchased from authorized dealer (Attach a copy of the Authorization letter)

Signature of the bidder with Stamp Date

Schedule "C" Specification compliance to the Item 3 Supply & Delivery of Supply & Delivery of Solar PV Modules

No	Item	Specification	Bidders Response "Yes/No"	If "No" bidder's offer offered
1	Brand Name	Specify		
2	Model	Specify		
3	Country of Origin	Please specify (Should be ADB Member country (see Annexure 1))		
4	Country of Manufacture	Please specify (Should be ADB Member country (see Annexure 1))		
5	Manufacturer Authorization	Should be available and original send to "sporj-sthrd@mohe.gov.lk"		
6	Product Brochure	Attached		
7	Panel Capacity	Above 550W		
8	Maximum Dimension	Mention		
9	Area per Module	Mention		
10	Weight per Module	Mention		
11	Output Cables mm ²	Mention		
12	Working Temperature	0 C to 85 C		
13	Temperature Coefficient of Pmax ($\gamma\Delta P_{max}$)	-0.4%/C0 or -0.37%/C0		
14	Power Tolerance	Positive only		
15	Module Efficiency	20% or more		
16	Fill Factor	Minimum 0.78		
17	Cell Type	Mono		
18	Linear Performance	Minimum 80% after 25 Years		
19	Expected Life time	25 Years		
20	Number of bypass diodes	Mention		
21	Standard	See Annex - A		
22	Protection Rating	Minimum IP 65		
23	Quality Management	ISO 9001: 2008, ISO 14001:2004 Or equivalent		
24	Manufacture Warranty and Services	12 years Product Warranty and 25 Performance Warranty		
25	Manufacture Authorization	Attached		
26	Product Experience	10 Years		

Signature of the bidder with Stamp Date

Specifications/standards/requirements for Solar PV Modules

The solar PV modules intend to use for the proposed solar PV system should be in conformity to following standards and requirements;

- a. Should be made out of mono crystalline silicon cells.
 1. Photo electrical conversion efficiency of Solar PV module shall be 19.0% or higher.
 2. Module rating Above 550Wp.
 3. Rated output of module shall be positive tolerance only.
 4. Shall perform in an operating environment where, solar PV panel temperature ranging between 10°C to 85°C and relative humidity is 95%.
 4. Economic life should be more than 25 years.
 5. Module fill factor shall be 0.78 or higher.
 6. Modules shall be encapsulated and sealed to protect silicon cells from external environment and prevent ingress of moisture during its economic life.
 7. The PV modules must be tested & approved by one of the IEC authorized test centers as per relevant and latest IEC standards.
 8. The modules should comply with IEC 61215, IEC 61730, IEC 61701, IEC 62716 and IEC 62804 Electrical Protection Class II and CE guidelines or latest for safety.
 9. Solar modules should be preferably of replaced origin and should be IEC 61215, IEC 61730, UL 1703 & ISO 9001:2008 certified and comply to the QC080000 HSPM regulations (*certificate copies should be provided*)
 - i. Solar cell surface to be coated with anti-reflective coating.
 10. Module frame shall be made out of Aluminum only.
 11. Module shall be built to withstand against 100 m/s of wind speed.
 12. The bidder should be an Authorized Representative to market and service of this product In Sri Lanka (*Attach a copy of the Authorization letter from the manufacture*).
 13. Product warranty for the solar modules should be 12 years, and linear performance Warranty should be indicated against 80-85% power output in 25th years. Warranty Statement from the supplier should be attached.
 14. Indicate the period of the insurance cover provided against the insolvency or bankruptcy of the manufacturer in case of a claim within the said warranty period.

Identification of solar PV modules

Solar PV modules shall be provided with RF identification label. This should include following essential information pertaining to design and manufacture of solar cells and modules;

1. Name of the PV module manufacturer
2. Country of solar cells
3. Country of solar module
4. Date and year of manufacture of solar cells
5. Date and year of solar module manufacture
6. Type or model number
7. Serial number
8. Module I-V curve
9. Power rating
10. Name of testing agency for IEC certification, date and year of obtaining IEC qualifying Certificate for solar PV module
11. Maximum permissible system voltage for which the module is suitable

PHOTOVOLTAIC (PV) MODULES

SLS 1553 Sri Lanka Standard Specification for Photovoltaic (PV) Module Safety Qualification –

Part 1: 2017 Requirements for Construction (IEC 61730-1:2016)

Part 2: 2017 Requirements for Testing (IEC 61730-2:2016) 7. SLS 1544 Sri Lanka Standard Specification for Terrestrial Photovoltaic (PV) Modules –

Design qualification and type approval

Part 1:2016 Test Requirements (IEC 61215-1:2016)

Part 1-1:2016 Special Requirements for Testing of Crystalline Silicon Photovoltaic (PV) Modules (IEC 61215-1-1:2016)

Part 2:2016 Test Procedures (IEC 61215-2:2016)

8. SLS 1546:2016 Sri Lanka Standard Specification for Photovoltaic Systems – Power Conditioners – Procedure for Measuring Efficiency (IEC 61683:1999)

Signature of the bidder with Stamp Date

Note: Reference page no. and item no. to the brochure should be mention to easy reference

3. Drawings

Not applicable

Section 8: Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(j)	The Purchaser's country is: Sri Lanka
GCC 1.1(k)	The Purchaser is: Vice Chancellor, Rajarata University of Sri Lanka
GCC 1.1 (q)	The Site is: Faculty of Technology, Rajarata University of Sri Lanka, Mihintale
GCC 4.2 (b)	The version of Incoterms shall be: INCOTERMS 2010
GCC 5.1	The language shall be: English – United States The language for translation of supporting documents and printed literature is: English – United States
GCC 8.1	For notices , the Purchaser's address shall be: Attention: Deputy Project Director Street address: Project Implementation Unit STHRD Project Ground Floor Faculty of Technology Rajarata University of Sri Lanka Mihintale ZIP code: 50300 Country: Sri Lanka Telephone: 0252266228 Fax: 0252266380 E-mail: tcbamunu@tec.rjt.ac.lk
GCC 9.1	The governing law shall be: The laws applicable in Democratic Socialist Republic of Sri Lanka

<p>GCC 10.2</p>	<p>The formal mechanism for the resolution of disputes shall be: according to the United Nations Commission on International Trade Law (UNCITRAL)</p> <p><u>For a contract with a Foreign Supplier:</u></p> <p>In the case of a dispute between the Purchaser and the Supplier, the dispute shall be settled by international arbitration conducted in accordance with the arbitration Rules of Singapore International Arbitration Centre.</p> <p>Place of arbitration: Singapore International Arbitration Centre No. 32, Maxwell Road, #02-01, Maxwell Chambers, Singapore 069115</p> <p><u>For a contract with a Local Supplier:</u></p> <p>In the case of a dispute between the Purchaser and the Supplier, the dispute shall be settled by arbitration in accordance with the provisions of the local arbitration Procedures in the Purchaser's country.</p> <p>Place of arbitration: Development of Commercial Law and Practice, ICLP Arbitration Centre, 53/1, Ananda Coomaraswamy Mawatha, Colombo 00700, Sri Lanka</p>
<p>GCC 11.1</p>	<p>The Scope of Supply shall be defined in: Schedule 6 (Schedule of Supply)</p>
<p>GCC 12.1</p>	<p>Details of shipping and documents to be furnished by the Supplier shall be:</p> <p>one original and one copy of the Supplier's invoice showing the contract Item no., full description of the goods, Code/Model no., quantity, unit and total prices, country of origin and the Harmonized Commodity Description and Coding Systems (HS) code <u>on item by item basis</u>. The full contact details of the Supplier, Purchaser and Consignee, shipping details, total number of packing cases with total volume and nett weight and method of payment must also be shown.</p> <p>one original and one copy of the Supplier's master packing list showing the contract Item no., full description of the goods, Code/Model no., quantity, country of origin and the Harmonized Commodity Description and Coding Systems (HS) code <u>on item by item basis</u>. The full contact details of the Supplier, Purchaser and Consignee, shipping details, total number of packing cases with total volume and nett weight must also be shown.</p> <p>one original and one copy of individual packing list <u>for each case</u> (showing the same information as the master packing list) and the individual case nett</p>

	<p>and gross weight and dimensions. The case number in the form 1 /X to X/X must also be included</p> <ul style="list-style-type: none"> - Certificate of Origin on items by item basis issued by a Chamber of Commerce (or other duly authorized government agency located) in the Supplier's country. - Manufactures and/or suppliers warranty certificates for items where this required in Section 6 - Schedule of Supply. - Nominated agency and/or factory inspection report for items where this required in Section 6 - Schedule of Supply.
GCC 15.2	<p>The price adjustment shall be: NOT APPLICABLE The prices indicated in the Form of Quotation are firm and fixed and not subject to any adjustment during contract performance.</p>
GCC 16.1	<p>Payment of the Contract Price shall be made in the following manner:</p> <p>Payment shall be made in currencies mentioned in the Letter of Award within (28) days of presentation of claim supported by a written confirmation from the Purchaser declaring that the Goods have been delivered as per the conditions described in Section 6 and that all other contracted services have been performed.</p> <ul style="list-style-type: none"> (a) On Acceptance: 90% of the Contract Price of Goods received shall be paid within 28 days of receipt of the Goods upon submission of a claim supported by acceptance certificate issued by the purchaser. (b) Balance 10% of the Contract Price of Goods received shall be paid after the defect liability period of the Goods upon submission of a claim supported by quality and condition certificate issued by the end user. (c) Payments will be made by Cheque or SWIFT transfer. <p>For Goods and Contracted Services supplied from within the Purchaser's country:</p> <ul style="list-style-type: none"> (a) On Acceptance: 90% of the Contract Price of Goods received shall be paid within 28 days of receipt of the Goods upon submission of a claim supported by acceptance certificate issued by the purchaser. (b) Balance 10% of the Contract Price of Goods received shall be paid after the defect liability period of the Goods upon submission of a claim supported by quality and condition certificate issued by the end user. (c) Payments will be made by Bank cheque.

GCC 16.4	<p>The currencies for payments shall be:</p> <p>Payments shall be made Strictly in accordance with the prices with currencies quoted in the Bid submission sheet.</p> <p>The Supplier shall provide a Foreign Currency account to receive the relevant foreign currency component of the quoted bid</p>
GCC 18.1	<p>The Supplier shall provide a un conditional Performance Security of minimum 10 percent (10%) of the Contract Price. The Performance Security shall be denominated in the following amounts and currencies:</p> <p>The value of 10% of the Contract amount in the currency mentioned in the Contract awarding letter, which shall be in proportion to the amounts and currencies of the contract price and valid for 6 months from the expected delivery completion.</p>
GCC 18.3	<p>The forms of acceptable Performance Security are: Section 9-5 Performance Security Form included in the Bidding Document</p> <p>Note that the Performance Security must be issued from a commercial bank operating in Sri Lanka, approved by the Central Bank of Sri Lanka</p>
GCC 18.4	<p>Discharge of the Performance Security shall take place: Pursuant to Clause GCC 18.4, after delivery, installation and acceptance of the goods. the performance security shall be reduced up to 5% of the Contract price to cover the Supplier's warranty obligations in accordance with GCC Clause 28.3</p> <p>After complacent of Warranty period and rectifying the defects or substituted by new goods successfully, the Performance security will be released.</p>

GCC 23.2	<p>The packing, marking, and documentation within and outside the packages shall be: As described in SCC 12.1</p> <p>- Individual packing list for each case</p> <p>Outside each case:</p> <p>Clearly stenciled in indelible water proof ink</p> <p>Dean's Office, Faculty of Technology, Rajarata University of Sri Lanka, Mihintale 50300, Sri Lanka</p> <p>Contract No. MOE/STHRD/RJ/CRG/R2-RJ2-1 IFB No. MOE/STHRD/RJ/CRG/R2-RJ2-1</p> <p>As described in SCC 12.1</p> <p>- Case nett and gross weight and dimensions. - Case number in the form 1 /X to X/X</p>
GCC 24.1	<p>The insurance coverage shall be in accordance with:</p> <p>Pursuant to GCC, Sub clause 24.1, the supplier must insure the Goods in an amount equal to 110% of the CIF, CIP or EXW price of the Goods from Warehouse to Warehouse on All Risks basis, including War Risks and Strikes</p>
GCC 25.1	<p>Obligations for transportation of the Goods shall be in accordance with: INCOTERMS 2010</p>

GCC 26.2	<p>Tests and Inspections specified in Section 6 (Schedule of Supply), shall be carried out at the following times or milestones, and places:</p> <p>Goods: As specified in Section 6 (Schedule of Supply)</p> <p>Type of Test: Bidder must provide the certificate(s) obtained from National level certification body accepted by the client.</p> <p>Time or Milestone: Inspection will be at</p> <ul style="list-style-type: none"> i. After delivery ii. After installation <p>Place:</p> <p>Faculty of Technology, Rajarata University of Sri Lanka, Mihintale</p> <p>Address:</p> <p>Rajarata University of Sri Lanka</p> <p>Mihintale</p> <p>Country: Sri Lanka</p>
GCC 27.1	The applicable rate for liquidated damages for delay shall be: 0.50 % per week or part thereof
GCC 27.1	The maximum amount of liquidated damages shall be: 10% of the contract value
GCC 28.3	<p>The period of validity of the Warranty shall be: As per mentioned in Section 6 Compliance to the specifications from acceptance for the item</p> <p>The place of final destination shall be:</p> <p>Place, Faculty of Technology, Rajarata University of Sri Lanka</p> <p>Address: Mihintale. 50300</p> <p>Country: Sri Lanka</p>
GCC 28.5	The Supplier shall correct any defects covered by the Warranty within 14 days of being notified by the Purchaser of the occurrence of such defects.
GCC 30.1 (b)	The amount of aggregate liability shall be: 100% of the Contract Price