



भारत का राजदूतावास

EMBASSY OF INDIA

545-547, मर्चेण्ट स्ट्रीट / Merchant Street,

पोस्ट बॉक्स सं / Post Box No 751

यांगोन म्यनमार / Yangon, Myanmar

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Website : <https://www.embassyofindiayangon.gov.in>

No. 0204/NA

08 January, 2025

Notice Inviting Tender

Subject: 50 KW Solar Power Supply System

The Embassy of India, Yangon invites Technical and Financial Bids from authorised dealers / contractors, reputed, experienced and financially sound companies, firms ("The Vendor") for setting up of a 50 KW Solar Power Supply System at Yangon.

2. The representatives of interested vendors may submit their proposals / rate quotations.

3. Tender documents can be downloaded from the Embassy's website: <https://embassyofindiayangon.gov.in/> CPP Portal: www.eprocure.gov.in. Details can also be collected from Attache (Administration), Tel +95-1-251206 or admn.yangon@mea.gov.in.

Date of publishing NIT	:	09.01.2025
Last date of submission of Tender	:	30.01.2025 (1500 Hrs)
Opening of Technical Bid	:	31.01.2025 (1100 Hrs)
Opening of Financial Bid	:	03.02.2025 (1500 Hrs)

4. Technical and Financial Bid must be submitted separately in a sealed envelope clearly superscribed "TECHNICAL BID FOR 50 KW SOLAR POWER SUPPLY SYSTEM" and "FINANCIAL BID FOR 50 KW SOLAR POWER SUPPLY SYSTEM" along with all relevant documents to the "Head of Chancery, Embassy of India, 545-547, Merchant Street, Yangon, Myanmar". Financial Bid submitted in a separate sealed envelope would be opened in respect of only those Bidders, whose Technical Bids have been found meeting the required specifications at the Technical Bid evaluation stage. A bid sent through Fax or e-mail will not be accepted.

5. For any queries/ clarifications, e-mail may be sent to: hoc.yangon@mea.gov.in / admn.yangon@mea.gov.in.

6. Earnest Money Deposit (EMD):

(i) Each Technical Bid shall be accompanied by an Earnest Money Deposit (EMD) of USD 1350 (US Dollar One Thousand Three Hundred and Fifty only) in the form of a Bank Guarantee (BG) drawn on any Bank in favour of Embassy of India, Yangon or in cash deposited to Embassy.

(ii) The Bank Guarantee should be valid for a minimum period of 180 days.

(iii) The BG should be payable at Yangon only.

(iv) EMD must be attached with Technical Bid only, without which the bid shall stand rejected.

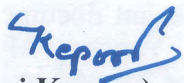
- (v) Earnest money will be forfeited:
 - (aa) If the bidder withdraws his bid during the period of bid validity.
 - (ab) In case of the successful bidder, if the bidder fails to sign the contract.
- (vi) Refund of Earnest Money Deposit (EMD):
 - (aa) Refund of EMD to the unsuccessful bidders shall be made after signing of the contract with successful bidder.
 - (ab) EMD of successful bidder shall be refunded after award of the contract and deposit of Performance Security @ 5% of the total contract value. Successful bidder will deposit Performance Security within 5 working days of award of contract. The Performance Security should be valid upto 60 days beyond the contract period. After successful completion of all contractual obligations, the Performance Security (without any interest) shall be refunded within 30 days.

7. The successful bidder shall be obliged to deposit an amount equivalent to 5% of the value of the contract to be awarded as performance guarantee. The performance guarantee shall remain valid for a period of 60 days beyond the completion of all contractual obligations of the bidder. The bid security shall be refunded to the successful bidder on the receipt of the performance guarantee.

8. The Embassy of India, Yangon reserves the right to reject any or all the bids without assigning any reason. The decision of the Embassy shall be final and binding.

9. The bidder or his authorised representative, who wish to be present, may attend the bid opening on the date and time specified.

10. The work shall be offered to the lowest bidding party.


(Raj Kapoor)
Head of Chancery
Embassy of India, Yangon

Letter for Submission of tender

Dated _____, 2025

To

Head of Chancery,
Embassy of India,
545-547, Merchant Street,
Yangon, Myanmar

Ref: 50 KW Solar Power Supply System

Dear Sir,

Having examined the tender document relating to setting up of a 50 KW Solar Power Supply System at Yangon, we hereby submit our offer for the supply of the proposed items in accordance with terms and conditions and confirm our acceptance to execute the order within the time period specified in the tender document, at the rates quoted by us in the accompanying Technical & Financial Bid.

We further confirm that: -

- (a) We have successfully executed orders of similar nature and we have sufficient experience and financial strength in handling orders of this value.
- (b) We have sufficient qualified manpower and necessary materials and after sales support to execute the order efficiently in the specified time schedule.
- (c) The quoted rates shall be valid not less than 180 days from the date of opening of quotation.
- (d) We further confirm that all chapters of the tender documents have been read, understood and signed and there is no deviation/discrepancy.
- (e) We agree to accept the extension order up to 100% quantity within three months of the issue of the order.

Signature of the Bidder
With stamp and date

**EMBASSY OF INDIA
YANGON**

No.0204/NA

January, 2025

GENERAL

1.1 The 50 KW Solar Power Supply System shall be set up at desired location in Yangon. The vendor shall study the specifications and satisfy himself thoroughly and shall take full responsibility of the smooth, reliable and safe working. Transportation charges and other incidentals in respect of technician(s), if any, for final installation may be included in the bid. Technical and Financial Bids must be submitted separately in a sealed envelope clearly superscribed "**TECHNICAL BID FOR 50 KW SOLAR POWER SUPPLY SYSTEM**" and "**FINANCIAL BID FOR 50 KW SOLAR POWER SUPPLY SYSTEM**" along with all relevant documents to the "Head of Chancery, Embassy of India, 545-547, Merchant Street, Yangon, Myanmar". Financial Bid submitted in a separate sealed envelope would be opened in respect of only those Bidders, whose Technical Bids have been found meeting the required specifications at the Technical Bid evaluation stage. A bid sent through Fax or e-mail will not be acceptable in the quotation.

1.2 All items of instrument shall be completed in all respects and any instrument not covered in the specification but essential for proper installation, operation and maintenance of the instrument shall be included by the vendor in his offer and the reasons for such inclusion shall be clearly stated.

SCOPE OF WORK

2.1 The scope of work includes supply, installation and commissioning of 50 KW Solar Power Supply System in accordance with the design & specifications given in "**ANNEXURE I TECHNICAL BID; A. TECHNICAL SPECIFICATIONS OF THE 50 KW SOLAR POWER SUPPLY SYSTEM**".

2.2 Supply of Solar Panels/ PV modules, Solar Inverter, LiFePo4 Batteries, PV mounting structures, PV cables, AC cables, DC cables, PV earthing system, Lightning Protection System, AC distribution Panel, DC Panel and accessories.

2.3 Packaging, forwarding, transport, insurance, loading, unloading, precaution against damage during transit etc.

2.4 Installation, testing and Commissioning of complete system

2.5 Warranty for five years or OEM Warranty, whichever is longer.

2.6 Training of personnel for usage and maintenance of equipment.

2.7 Operation and maintenance manuals.

SAFETY

3.1 All equipment items shall be complete with approved safety devices, wherever a potential hazard to personnel exists, and with provision for safe access to personnel to and around the instrument for operational and maintenance functions.

3.2 **Time for Completion**. The vendor shall complete supply and installation of the 50 KW Solar Power Supply System within three months of placing the Purchase Order or the timeline specified by the Embassy.

TEST AND INSPECTION

- 4.1 Inspection of the equipment will be done at the site.
- 4.2 The vendor shall demonstrate all the features of the equipment mentioned in the technical specification.
- 4.3 The vendor is solely responsible for installation and making the complete system operational at user's site.

OPERATION CONDITIONS

- 5.1 All equipment shall be designed for smooth, efficient and trouble-free operation in tropical humid climate of (-)10° C to (+)65° C ambient and a humidity of 90% to 150%.
- 5.2 In cases where the offer deviates from the specification, the vendor shall indicate clearly in his offer the specification proposed by him along with details thereof and the reasons for the deviation. Each exception to the specification or other parts of the tender document shall be listed separately by the vendor. If exceptions are not clearly listed they will not be considered by the Purchaser later.

DOCUMENTS

- 6.1 The vendor shall supply the hard and soft copy of Operation and Maintenance manual in duplicate. All necessary literature giving complete technical details shall be provided.

INSTALLATION, TESTING & COMMISSIONING

- 7.1 It is to be noted again that supply of all accessories (not included in the specification but essential for proper installation, operation and maintenance of the 50 KW Solar Power Supply System) shall be included and executed by the vendor.
- 7.2 The supply will not be deemed complete until testing and commissioning is carried out by the vendor at the site successfully.

PERFORMANCE AND GUARANTEE (P. G.)

- 8.1 All necessary tests shall be carried out at the site by the vendor to demonstrate whether performance of the instrument conforms to the relevant standards and specifications and meets the functional requirement indicated in the specification.

WARRANTY

- 9.1 The warranty period for the equipment will commence from the date of commissioning of system at user's site and not from the date of delivery or installation.
- 9.2 The vendor shall provide warranty for the complete power supply system for a minimum period of five years from the date of commissioning or for the duration of OEM warranty period whichever is longer.
- 9.3 The time period for product warranty will be the same as the service warranty.
- 9.4 The vendor shall be responsible for routine and breakdown maintenance of the equipment during warranty period.

SERVICE AGREEMENT

10.1 The selected vendor shall have to sign a Non-Disclosure Agreement (NDA) on the service to be provided.

PAYMENT TERMS

11.1 The payment will be released in full only after receipt, satisfactory installation and testing of the equipment in question and in good condition at the site.

CAPABILITY AND EXPERIENCE

12.1 The vendor shall have executed similar kind of work within last three years. The vendor shall submit along the offer the reference list of the similar work. Offers received without the reference list may be rejected.

TRAINING

13.1 Vendor shall provide necessary on-site training on working and upkeep of Solar Power Supply System.

QUOTATION

14.1 Interested vendors should submit Technical Bid and Financial Bid separately in a sealed envelope clearly superscribed “**TECHNICAL BID FOR 50 KW SOLAR POWER SUPPLY SYSTEM**” and “**FINANCIAL BID FOR 50 KW SOLAR POWER SUPPLY SYSTEM**” along with all relevant documents within the specified date and time. A bid sent through Fax or e-mail will not be accepted.

14.2 Vendor can submit quotation in US Dollars. The total rate quoted shall be inclusive of Tax.

CLARIFICATIONS

15.1 For any clarification, the vendor may contact the Embassy by e-mail (hoc.yangon@mea.gov.in / admn.yangon@mea.gov.in) and Tel: 95-1-391219 and Fax: 95-1-254086.

LAST DATE OF RECEIPT OF TENDER

16.1 Tender will not be accepted if they are received after the due date and time as specified in the quotations letter i.e. **on 30 January, 2025**.

OPENING DATE OF TENDER

17.0 The technical bid will be opened on **31 January, 2025** and financial bid on **03 February, 2025** at Embassy of India. The Technical Bids (**Annexure I**) will first be evaluated and only vendors who qualified in the Technical Bids will only be considered for further evaluation of Financial Bids (**Annexure II**).

EMBASSY OF INDIA, YANGON RESERVE THE RIGHT

18.1 The right of acceptance of tender(s) will rest with Competent Authority. Also, the Embassy is not bound to accept the lowest tender and reserves the right to reject or partially accept any or all the tender(s) received without assigning any reasons thereof.

TECHNICAL BID

Annexure I

A. TECHNICAL SPECIFICATIONS 50 KW SOLAR POWER SUPPLY SYSTEM

Ser	Characteristic	Description
Photovoltaic (PV) Modules (Qty – 120)		
1.	General	Mono Crystalline modules with tempered front glass of appropriate thickness, anti-reflecting coating, high transmission and low iron.
2.	Protection Class	<ul style="list-style-type: none"> • Class II • Fire Type -Class C
3.	Standard Test Conditions (STC) Specifications	<ul style="list-style-type: none"> • Maximum Power ≥ 600 Watts • Maximum Voltage ≥ 46.15 Volt • Maximum Power Current ≥ 13 Amp • Open Circuit Voltage ≥ 50 Volt • Short Circuit Current ≥ 13.50 Amp • Efficiency $\geq 20\%$
4.	Nominal Operating Cell Temperature Specifications	<ul style="list-style-type: none"> • Maximum Power ≥ 450 Watts • Maximum Voltage ≥ 45 Volt • Maximum Power Current ≥ 10 Amp • Open Circuit Voltage ≥ 50 Volt • Short Circuit Current ≥ 11 Amp
Solar Inverter (Qty – 01)		
5.	Input (DC)	<ul style="list-style-type: none"> • Max PV Input Power ≥ 80 KW • Max Input Voltage ≥ 1000 Volt • Max Input Current ≥ 40 Amps • Max Short Circuit Current ≥ 60 A
6.	Output (AC)	<ul style="list-style-type: none"> • Rated Power ≥ 50 KW • Rated Voltage ≥ 400 Volt • Rated Current ≥ 50 Amps • Power Factor = 0.8 (leading/lagging)
7.	Protection	<ul style="list-style-type: none"> • Overcurrent protection • Short-circuit protection • DC reverse polarity protection • Surge protection
8.	Display and Communication	LCD/LED Display as status indicator and control device. Ethernet, Wi-Fi and LAN enabled.
Batteries (Qty – 01 Set)		
9.	Type	High Voltage Lithium Ion Batteries
10.	Nominal Voltage	≥ 500 V DC
11.	Nominal Capacity	≥ 50 KWh
12.	Usable Capacity	$\geq 90\%$ Depth of Discharge
13.	Maximum Charging Current	≥ 50 Amp
14.	Protection Rating	IP20 or equivalent
15.	Cooling Type	Natural
16.	Life	≥ 6000 Cycles or 15 Years
17.	Display and Communication	LCD/LED Display as status indicator and control device. Ethernet, Wi-Fi and LAN enabled.
Accessories (01 Set)		
18.	PV Mounting	Frame Material - Aluminum
19.	PV cables	6mm ² cross-section of customized length

20.	AC cables	25mm ² cross-section of customized length
21.	DC cables	25mm ² cross-section of customized length
22.	PV Earthing System	Appropriate Rating
23.	Cable Accessories	MC4/ Cable Lugs or as required for installation
24.	AC Distribution Panel	IP 68 Rated
25.	DC Panel	IP 68 Rated
Services		
26.	Installation	As per design
27.	Testing and Commissioning	As per design parameters
28.	Training	For two set of personnel on upkeep, maintenance and operation of the system
29.	Warranty	Five Years for complete system or OEM warranty whichever is longer

B. MATRIX FOR TECHNICAL SPECIFICATIONS

Ser.	Product Description	Whether the Company would be able to provide the given Specifications and Quantity (Yes/ No)	If not, the nearest Specifications that the Company can provide	Remarks
(1)	(2)	(3)	(4)	(5)
Photovoltaic (PV) Modules (Qty – 120)				
1.	General	Mono Crystalline modules with tempered front glass of appropriate thickness, anti-reflecting coating, high transmission and low iron.		
2.	Protection Class	<ul style="list-style-type: none"> • Class II • Fire Type -Class C 		
3.	Standard Test Conditions (STC) Specifications	<ul style="list-style-type: none"> • Maximum Power ≥ 600 Watts • Maximum Voltage ≥ 46.15 Volt • Maximum Power Current ≥ 13 Amp • Open Circuit Voltage ≥ 50 Volt • Short Circuit Current ≥ 13.50 Amp • Efficiency $\geq 20\%$ 		
4.	Nominal Operating Cell Temperature Specifications	<ul style="list-style-type: none"> • Maximum Power ≥ 450 Watts • Maximum Voltage ≥ 45 Volt • Maximum Power Current ≥ 10 Amp • Open Circuit Voltage ≥ 50 Volt • Short Circuit Current ≥ 11 Amp 		
Solar Inverter (Qty – 01)				
5.	Input (DC)	<ul style="list-style-type: none"> • Max PV Input Power ≥ 80 KW • Max Input Voltage ≥ 1000 Volt • Max Input Current ≥ 40 Amps • Max Short Circuit Current ≥ 60 A 		
6.	Output (AC)	<ul style="list-style-type: none"> • Rated Power ≥ 50 KW • Rated Voltage ≥ 400 Volt • Rated Current ≥ 50 Amps • Power Factor = 0.8 (leading/lagging) 		
7.	Protection	<ul style="list-style-type: none"> • Overcurrent protection • Short-circuit protection • DC reverse polarity protection • Surge protection 		
8.	Display and Communication	<ul style="list-style-type: none"> • LCD/LED Display as status indicator and control device. • Ethernet, Wi-Fi and LAN enabled. 		
Batteries (Qty – 01 Set)				
9.	Type	High Voltage Lithium Ion Batteries		
10.	Nominal Voltage	≥ 500 V DC		

11.	Nominal Capacity	≥50 KWh			
12.	Usable Capacity	≥90% Depth of Discharge			
13.	Maximum Charging Current	≥50 Amp			
14.	Protection Rating	IP20 or equivalent			
15.	Cooling Type	Natural			
16.	Life	>6000 Cycles or 15 Years			
17.	Display and Communication	LCD/LED Display as status indicator and control device. Ethernet, Wi-Fi and LAN enabled.			

Accessories (01 Set)

18.	PV Mounting	Frame Material - Aluminum			
19.	PV cables	6mm ² cross-section of customized length			
20.	AC cables	25mm ² cross-section of customized length			
21.	DC cables	25mm ² cross-section of customized length			
22.	PV Earthing System	Appropriate Rating			
23.	Cable Accessories	MC4/ Cable Lugs or as required for installation			
24.	AC Distribution Panel	IP 68 Rated			
25.	DC Panel	IP 68 Rated			

Services

26.	Installation	As per design			
27.	Testing and Commissioning	As per design parameters			
28.	Training	For two set of personnel on upkeep, maintenance and operation of the system			
29.	Warranty	Five Years for complete system or OEM warranty whichever is longer			

“UNDERTAKING”

It is hereby certified that M/s..... (Name of the Company) is capable of providing and undertakes to provide above “Specifications and Quantity” at the time of supply and installation of 50 KW Solar Power Supply System.

**(Seal & Signature of the authorised Company
Representative)
Name & Address:**

C. GENERAL INFORMATION

1	Name and Address of the Bidder	
2	Contacts	
3	Telephones	
4	Mobile no.	
5	Fax	
6	E-mail	
7	Category of the Bidder (Whether company, partnership firm or Proprietary concern)	
8	Name of Chief Executive Officer and Telephone no.	
9	Year of Establishment	
10	Name and address of the Banker	
11	List of major Clients and the size of orders executed	

Note: Separate sheets may be attached wherever necessary.

**(Seal & Signature of the authorised
Company Representative)
Name & Address**

FINANCIAL BID
Annexure II

A. MATRIX FOR FINANCIAL BID

<u>Ser</u>	<u>Product Description</u>	<u>Unit</u>	<u>Qty</u>	<u>Rate per Unit</u> <u>(USD)</u>	<u>Total (Rate x Qty)</u> <u>(USD)</u>	<u>Remarks</u> <u>(if any)</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	PV Modules	Nos	120			
2.	Solar Inverter	Set	01			
3.	Battery Set	Set	01			
4.	Accessories	Set	01			
5.	Services	Set	01			
6.	Any other item/ service					
Total (in figure)						
Total (in Words)						

Note:

1. The Financial Bid shall not include any conditions attached to it and any such conditional financial proposal shall be rejected summarily.
2. The total quoted price should include all travel cost, shipping charges and other administrative cost, if any, that may be incurred by the vendor as part of this project.
3. The total cost for each item should be clearly mentioned. Price quoted only on rate per unit basis will not be accepted.
4. Separate sheets may be attached wherever necessary.

**(Seal & Signature of the authorised Company
Representative)**
Name & Address: