Indian Institute of Science (IISc)
Bangalore – 560012
(www.iisc.ac.in)

NOTICE INVITING TENDER

under the two-cover bid system

for

Supply of Solar PV Panels for IISc, Challakere Kudapura campus

Tender No: IISc/CHAL/PV/2021

Date: 21st October 2021

Contact Details for this tender:

The Convener

HAL-IISc Skill Development Center Office

Indian Institute of Science

Bangalore – 560012

Tel : 080- 2293 2800

Email: office.sdc@iisc.ac.in

Indian Institute of Science, Bangalore

Tender Inviting Authority: The Registrar, Indian Institute of Science, Bangalore - 560012

Title of the Tender: Supply of solar PV panels for IISc, Challakere

Tender Ref. No.: IISc/CHAL/PV/2021, Date: 21st October 2021

IISc is interested in purchasing solar PV panels for its Challakere kudapura campus. The required technical details including terms and conditions are provided below. Please send us technical and commercial quotes in separate sealed envelopes addressed to The Convener, office of HAL-IISc Skill Development Center, Indian Institute of Science, Bangalore-560012, by **4 PM of 12th Nov 2021.**

A. Item Details and its technical specifications:

The item must consist of the following details (Complete technical details and quantity):

1. Supply of solar PV panels for 250kWp as per enclosed specifications
2. Supply of solar PV panels for 1MWp as per enclosed specifications

The financial bids must be given in separately sealed covers for item(1) and item(2) above respectively. Depending on the availability of grants, one of the financial bids will be considered for opening.

B. Eligibility Criteria and Terms & Conditions:

1. The bidder must be either Indian OEM (Original Equipment Manufacturer) or its authorized Indian distributor /dealer/manufacturer of the make mentioned in the tender document and for which they are quoting. Valid certificates must be attached.
2. The bidder must have valid GSTIN. Valid certificate must be attached.
3. The bidder shall have minimum turnover of **Rs. 60 Lakhs/per annum** in any three years during the last 5 financial years (2016-17 to 2020-21). The CA certificate to be attached.

4. Vendor must quote for all line-items.
5. The quantities mentioned in the BOQ are approximate. The Quantity in the final order may vary to the extent of 5% maximum.
6. **Turnaround time for any repairs during warranty period:** Dedicated support number with a promised turn around for inspection of 24 hours or lesser (NOT business hours) and service time of not more than one business day. The bidder shall have proper Service Centre / tie up at Bangalore for quick service back up.
7. Minimum warranty should be Two years.
8. The lowest bidder after financial evaluation of the tender should register in Indian Institute of Science through Vendor Information Portal (https://hellovendor.iisc.ac.in/). Any payment will be released only after successful registration with this portal.
9. IISc will have absolute right to modify / cancel this tender and accept / reject any bid.
10. Late submission of bids is not permitted.
11. Bids must be in two-cover bid system (Technical Bid and Price Bid). Both bids to be separately sealed bids should be kept in a bigger sealed envelope mentioning our Tender reference no. and name of the item. Technical Bid must contain both the Techno-Commercial Compliance Sheets, related documents, technical literatures, and any other documents (except Price Bid). All pages must be properly sealed (stamped) and signed by the bidder with name & date.
12. Successful bidder will be decided on the basis of overall (grand total of all items taken together) Lowest (L-1) of Price Bid of technically qualified bids.
13. A copy of the tender document (duly sealed and signed by the bidder on pages) must be attached with the technical bid declaring the bidder accepts all terms & conditions of the tender. Conditional bid will be rejected. Price of an item must not be mentioned in the technical bid, failing which the technical bid will be rejected.
14. The quoted cost must include packing, freight, loading, unloading, and on FOR-IISc Challakere basis. Installation, Fixing and other associated works will be done by the IISc.
15. The manufacturer/Dealer/Distributer should have minimum 3 similar installation in the state of Karnataka.

16. Important Dates: -

Date of publication of tender	22nd October 2021
Last Date of pre-bid query to be sent by email only to: office.sdc@iisc.ac.in	2nd Nov 2021 at 5.00 PM
Pre-bid meeting (Online) (MS Teams online meeting link will be sent to the prospective bidders, whose query will be received by the last date & time as above by email)	4th November 2021 at 11:30 AM
Last date & time of submission of bids	12th November 2021 at 2:00 PM
Opening of Technical Bids	12th November 2021 at 3:30 PM
Opening of Price Bids (Price Bids will be opened of only those bidders, whose technical bids will be declared qualified by the Technical Committee of IISc for the procurement. Decision of the Committee will be final and binding.)	16th November 2021 at 3.30 PM

Note: IISc will have absolute right to change the date / time.

C. Commercial & Payment Terms:

1. The successful bidder is required to submit Performance Security / Performance Bank Guarantee (PBG) within two weeks of the issue of Purchase order (PO), which will be valid for two months beyond the contractual obligations including warranty period. PBG should be for 3% of the total PO value. Standard rules of GFR will be followed for forfeiting / return of PBG.
2. Any advance payment will be released against the submission of Bank Guarantee (BG). The final payment will be released only after completing satisfactory supply of all items to the satisfaction of IISc team. Any payment will be released only after submission of PBG followed by its verification of genuineness.
3. Place of delivery of bids is: The Convener, office of HAL-IISc Skill Development Center, Indian Institute of Campus, Bangalore-560012.

D. Contact Details for this tender:

The Convener
Office of HAL-IISc Skill Development Center
Indian Institute of Science
Bangalore – 560012
Tel : 080- 2293 2800
Email: office.sdc@iisc.ac.in

Technical Bid

Techno-Commercial Compliance Sheet - 1

Sl. No.	Eligibility Criteria	Fulfil this criterion (Yes / No)	Details and Proof Attached on page no.
1.	The bidder must be either Indian OEM (Original Equipment Manufacturer) or its authorized Indian distributor /dealer of the make mentioned in the tender document and for which they are quoting. Valid certificates must be attached.		
2.	The bidder must have valid GSTIN. Valid certificates must be attached.		
3.	The bidder shall have minimum turnover of **Rs. 60 Lakhs/per annum** in any three years during the last 5 financial years (2016-17 to 2020-21). The CA certificate to be attached.		
4.	Minimum Warranty of Two Years		

*****

Technical Bid (BOQ)

Techno-Commercial Compliance Sheet – 2

Details of Make / Model /quoted (Only can be quoted by one vendor): -

Sl. no.	Item	Unit	Qty.	Make / Model) (only one model should be clearly mentioned here)
1.	Supply of solar PV panels as per enclosed specs.	Nos.		

*****

INDIAN INSTITUTE OF SCIENCE, BANGALORE

PRICE BID

(to be submitted by the bidder in separate sealed cover superscribed as Price Bid)

Name, GSTIN & Address of the Bidder: ……..

Name of work: Supply of Solar PV panels for IISc Challakere kudapura campus.								
Sl no.	**Item of work**	**Unit**	**Qty.** **"A"**	**Basic rate per unit (in INR)** **"B"**	**GST Rate in 5 %** **"C"**	**Total rate Per Unit with GST (in INR)** **"D"**	**Total amount (INR)** **A * D**	Make / Model (only one model should be clearly mentioned here)
1	Supply of solar PV panels as per enclosed specs	Nos.						
Grand Total Amount in Figures in INR (Rs.)								
Grand Total Amount in words in INR (Rs.)								

Note: 1. The quoted cost must include packing, freight, loading, unloading, and on FOR-IISc Bangalore basis.

2. All pages must be properly sealed (stamped) and signed by the bidder with name & date.

*****

SOLAR PV MODULE SPECIFICATION

•Individual Solar PV Module should be of capacity greater than 390 Wp conforming to IEC:61215-1:2021, IEC :61730-1 :2016, manufactured in India in a plant certified under ISO 9001 : 2008 & ISO 14001and also type tested by any one of the three accredited test laboratories under Ministry of New & Renewable Energy, Govt. of India. The Solar PV Module should be made of ***mono-perc crystalline silicon solar cell*** connected in series/parallel.

•SPV modules of similar output with +/-2% tolerance in single string shall be employed to avoid array mismatch losses.

•SPV module shall contain mono-crystalline high power silicon solar cells. The solar cell shall have surface anti-reflective coating to help to absorb more light in all weather conditions.

•Fill factor of the module shall not be less than 75%.

•The module efficiency should be greater than 19%.

•Each module shall have low iron tempered glass front for strength and superior light transmission. It shall also have tough multi-layered polymer back sheet for environmental protection against moisture & provide high voltage electrical insulation. The PV module shall be provided with lead wire with water proof connector for output terminal.

•SPV module shall be highly reliable, lightweight and shall have a service life of more than 25 years. There shall be a warranty for SPV modules for 10 years against limited power loss of not more than 10% of nominal output and for 20 years against limited power loss of not more than 20% of nominal output, from the date of supply.

•The PV modules shall be equipped with bypass diode to minimize power drop caused by shade.

•The PV modules shall be resistant to abrasion, hail impact, rain, water and environmental pollution. The PV modules shall be provided with anti reflection coating and back surface field (BSF) structure to increase conversion efficiency.

•The solar modules shall have suitable encapsulation and sealing arrangements to protect the silicon cells from the environment. The encapsulation arrangement shall ensure complete moisture proofing (IP 65) for the entire life of solar modules. The terminal block shall be of Nylon 6 material.

•Module junction box (weather resistant) and UV, IR protected shall be designed for long life outdoor operation in harsh environment.

*****