

**Request for quote (RFQ) from domestic (India-based) manufacturers,  
Indian OEM or its authorized Indian distributor**

**Summary**

1.	Tender Date	5 <sup>th</sup> May 2021
2.	Item Description	Programmable DC Power Supply with Solar Array Simulator
3.	Tender Type	Two bid system : (a) Technical Bid (Part A) (b) Commercial Bid (Part B)
4.	Place of tender submission	Dr. Sarasij Das Department of Electrical Engineering, Indian Institute of Science Bengaluru - 560012
5.	Last Date & Time for submission of tender	25/05/2021, 5:00 PM

## To whom it may concern

This is a **Request for quote (RFQ) from domestic (India-based) manufacturers, Indian OEM or its authorized Indian distributor only** for procurement of **Programmable DC Power Supply with Solar Array Simulator** at the department of **Electrical Engineering (EE)**, Indian Institute of Science, Bangalore.

All interested vendors shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact listed below.

With respect to this tender, the rules laid out by the Government of India in order No. P45021/2/2017-pp-BE-II issued by the Public Procurement Section, Department or Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, dated 4<sup>th</sup> June 2020 will be followed. As per this order, the government has defined a 'Class-I local supplier' as "a supplier or service provider whose goods, services or work offered for procurement, has local content equal to or more than 50%". A 'Class-II local supplier' is "a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%". **Only Class-I and Class-II local suppliers are eligible to participate** in this open domestic tender. Any "Non-local supplier" i.e. "a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%" is ineligible to participate in this tender.

The deadline for submission of proposals is **25<sup>th</sup> May 2021 by 5:00 PM**. Proposals should arrive at the office of **Dr. Sarasij Das, Department of Electrical Engineering, Indian Institute of Science, Bangalore, Karnataka 560012, India**.

Direct all questions concerning the acquisition to addresses to **Dr. Sarasij Das at [sarasij@iisc.ac.in](mailto:sarasij@iisc.ac.in)**

### General Terms and Conditions

1. The bid should be submitted in the two-cover system, i.e. technical bid and commercial bid separately in sealed covers. The technical bid should contain all commercial terms and conditions, except the price.
2. The technical bid must contain a point-by-point technical compliance document. The technical proposal should contain a compliance table that should describe your compliance in a "yes" or "no" response against each of the items in the table listed in this RFQ. If "no" the second column should state the extent of deviation. The third column should state the reason for the deviation, if any. The fourth column can be used to compare your tool with that of your competitors or provide details as requested in the technical requirement table below.
3. In the commercial bid, the price should be inclusive of all discounts.
4. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
5. The covering letter should clearly state that whether the vendor is a Class-I or Class-II local supplier. Failing this the bid will be automatically rejected.
6. The vendor to state the percentage of the local content and provide self-certification that the item offered meets the minimum local content requirement. They should also give details of the location(s) at which the local value addition is made.

7. The lead time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order. It should be clearly mentioned in the technical and commercial bids.
8. All the quotations must be valid for at least 90 days at the time of submission.
9. List of customers and references: **The Bidder should have supplied similar equipment in Central Universities preferably in centrally Funded Technical Institutes (IITs, IISC, IISER, NIT ) . Please provide the details and contact information.**
10. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect should be provided.
11. Items in addition to that listed in the technical table that you would like to bring to the attention of the committee, such as data sheets, technical plots etc. can be listed at the end of the compliance table.
12. Vendors are encouraged to highlight the advantage of their tools over comparable tools from the competitors.
13. If needed, a meeting for any technical clarifications can be scheduled with the undersigned by sending an email.
14. The Institute reserves the right to accept or reject any bid, or to annul the bidding process and reject all bids, at any time prior to the award of contract without thereby incurring any liability of the affected bidder or bidders.
15. Warranty terms and additional warranty options is a must for all the components. Please specify the service plan like whether the local distributor will address the issue or the parent company.
16. Terms and conditions for the annual maintenance contract beyond the warranty period should be mentioned.
17. After the award of purchase order, the vendor must provide an Order Acknowledgement within 30 days from the receipt of the Purchase Order.
18. Please quote the price of each optional line item, separately. **The quotations should be on FOR-IISc Bangalore basis in INR only.**

**Technical requirements:** Please note that the requirements listed below are only guidelines. It does not disbar bids that do not meet the criteria listed. Vendors are requested to quote for equipment that meet the criteria to the best extent possible and list deviations. Deviations are NOT an automatic reason for disqualification. They will be discussed by the technical committee prior to making an informed decision.

### **Technical Specification**

<b>Sr. No.</b>	<b>Specification</b>
1	Output Ratings: 0 ~ 600 V
2	Output Current: 0 ~ 8.5 A
3	Output Power: 5000 W
4	Line Regulation Voltage: + 0.01% F.S. Current: + 0.05% F.S.
5	Load Regulation Voltage: + 0.05% F.S. Current: + 0.1% F.S.
6	Voltage Measurement Range: 120V / 600V
7	Voltage Accuracy: 0.05% + 0.05%F.S.
8	Current Measurement Range: 3.4A / 8.5A
9	Current Accuracy: 0.1% + 0.1%F.S.
10	Voltage Noise(P-P): 1500mV
11	Voltage Ripple(rms): 650mV
12	Current Ripple(rms): 150mA
13	OVP Adjustment Range: 0 ~ 110% programmable from front panel

14	Remote Interface: Analog / USB / RS232 / RS485 interface and Ethernet
15	Static and Dynamic MPPT Testing Function
16	Ready EN50530, Sandia & CGC /GF004 standard Library Testing Function
17	Auto run for Static & dynamic MPPT Test Function
18	Real World simulations Function
19	Shadowed I-V curve output simulation up to 4096 data points
20	100 I-V curves & Dwell time 1-15,000s
21	CE Marked product.

Dr. Sarasij Das  
Department of Electrical Engineering  
Indian Institute of Science Bangalore,  
Karnataka 560012