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ITER-India, Institute for Plasma Research

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ENQUIRY - LOCAL

OFFICE COPY

ENQUIRY NO

: I-IEN21033

Date

: 02/11/2021

Due Date

: 23/11/2021 by 5:00 PM (IST)

We invite your rate/s for the following item/s. The Instructions to bidders and Terms & Conditions are attached herewith.

Important Note :

1. Enquiry No., Date & Due Date should appear on the envelope otherwise your offer will be rejected.
2. Address quotation only to the Purchase officer.
3. ITER-India, IPR is entitled to avail concessional rate of GST @ 5% (2.5% CGST and 2.5% SGST) as per Central Goods and Services Tax (CGST) Notification No. 45/2017-Central Tax (Rate) dated 14th November, 2017, State Goods and Services Tax (SGST) Notification No. 45/2017 – State Tax (Rate) dated 15th November, 2017 and IGST @5% as per Notification No. 47/2017-Integrated Tax (Rate) dated 14th November, 2017 for supply of Goods. Therefore, please consider GST in your quotation accordingly.

Sr No.	Material Description	Quantity	Unit
1	DC POWER SUPPLY	1	NOS
2	DC POWER SUPPLY	1	NOS

Note :

- (1) Submit your quotation AT THE ABOVE ADDRESS.
- (2) Any clarification on this enquiry may be sought from the Purchase Officer, ITER-India
- (3) Quote with complete technical details.
- (4) Quotation should invariably be submitted in the attached format (Quotation Format) ONLY else ITER-India may not consider your offer.
- (5) Bidders are requested to fill the column of vendor Compliance in Technical specifications Annexure-I (duly signed and stamped) and return back along with the offer. Complete Annexure-I shall be signed & stamped on each page by bidder & to be return back along with the offer. This will be considered as acceptance of bidder on Annexure-I.
- (6) Payment shall be made within 30 days from the date of final acceptance of ordered items of purchaser's site and on receipt of error free invoice and other necessary documents at our end.
- (7) Payment shall be made within 30 days from the date of final acceptance of ordered items of purchaser's site and on receipt of error free invoice and other necessary documents at our end.
- (8) Bidder under the category of Micro & Small Enterprise (MSE) for the quoted item/services shall attach MSE certificate. Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service.
- (9) Only Class-I and Class-II Local Suppliers/Service Providers eligible to bid for this enquiry. Refer Government notification no. P-4501/2/2017-PP (BEII) issued by Ministry of Commerce & Industry in this regard provisions as per

notification as amended from time to time shall apply for this tender.

- (10) Class-I and Class-II Local Suppliers/Service providers will submit duly signed self declaration on their letter head as per Annexure-II along with the offer failing which bid may not be considered for further evaluation.
- (11) ITER-India reserves the right to split the order item-wise.

Encl:- as above

Rakhi Dharamdasani
Sr. Officer (Purchase & Stores)
ITER-India (IPR)

TERMS AND CONDITIONS

1. The quotation and any order resulting from this enquiry shall be governed by our Conditions of Order and supplier quoting against this enquiry shall be deemed to have read and understood the same into
2. Where counter terms and conditions have been offered by the Tenderer, the same shall not be deemed to have been accepted by ITER-India unless our specific written acceptance thereof is obtained.
3. Quotation: Your quotation superscripting our enquiry No., date, due date and brief description of item should be submitted to the Purchase Officer, ITER-India in sealed envelope on or before the due date. Late/Delayed/incomplete quotations will not be considered. Envelopes received without Enquiry number, date, due date and brief description of item may be rejected. The quoted prices should be firm for a period of 90 days from due date for placing order. ITER-India is not bound to accept lowest rate/s. Bidder shall submit the price bid/offer on Bidder's letter head with official seal and sign on each page.
4. The bid documents shall be prepared in English language only
5. All pages of the bid documents shall be numbered. Each page of the bid document shall be stamped and initialized.
6. In the event of any date indicated above is a declared Holiday, the next working day with the same time limit shall become operative for the respective purpose mentioned herein
7. In case of deviation in payment terms including demand of advance other than specified in payment schedule and accepted by ITER-India, prevailing Prime Lending Rate (PLR) of SBI will be loaded for price comparison purpose
8. ITER-India and their authorized representatives may visit the Contractor/Sub-contractors if required as part of technical evaluation process
9. ITER-India reserves the right to place order on one or more parties.
10. Specifications: Material should be offered strictly conforming to our specifications/drawings, if any. Deviation, if any, should be clearly indicated by the supplier in their quotation. The Tenderer should also indicate the Make/Type number of the materials offered and catalogues, technical literature and samples, wherever necessary should accompany the quotation. Clarification/s on specifications/drawings should be obtained from Purchase Officer before submitting quotation.
11. Terms of Prices : Quotation should be submitted on door delivery basis, duly packed & insured without extra charge wherever possible.. In the case of Indian suppliers, the material is to be delivered at our stores free of charge duly packed & insured.
12. Unit rate/s should be valid throughout the validity of Purchase Order for addition/deletion purposes. Break-up of price should be furnished. The quoted price should not be subject to price escalation for whatsoever reasons. The quoted price shall be firm, fixed and non-revisable during the validity/ extended validity of Purchase Order.
13. Prices are required to be quoted according to the units indicated in the tender form/Enquiry. When Quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
14. Tender should be free from Correction and Erasures. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Unsigned quotations will summarily be rejected.
15. ITER-India shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted. ITER-India also reserves the right to split the order at its sole discretion.
16. Octroi is not applicable at present.
17. Delivery Date/Period: Delivery period is essence of the Order. Supplier must indicate the firm delivery date by which the materials will be dispatched /delivered by them from the date of our order.
18. Delivery period shall be clearly indicated against each item separately.
19. Inspection: Materials on its arrival at ITER-India will be inspected by our Engineer/Stores In-Charge, and his decision in the matter will be final. However, where the items are required to be inspected at the Suppliers Premises, Supplier has to give advance notice to the Purchaser regarding readiness of the material to enable Purchase/Stores section to depute his representative for inspection.
20. Payment: Payment will be arranged for accepted materials only within 30 days from the date of acceptance of materials at ITER-India and receipt of error free bills in our accounts section, complete in all respects.
21. No correspondence will be entertained within 30 days from the date of receipt of material and bills, whichever is later.
22. Warranty: The Stores/Items offered should be guaranteed for a minimum period of 2 years from the date of acceptance, against defective materials, design, workmanship, operation or manufacture. For defects noticed and communicated during the Guarantee period, replacement/rectification should be arranged free of cost within a reasonable period of such notification. In case where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.
23. The Contractor/Supplier shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent, Registration of design or Trade Mark and shall take all risk of accidents or damage, which may cause failure of supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfillment of the Order.
24. Successful tenderer will have to furnish in the form a Bank Guarantee or in Indemnity Bond form as called for by the Purchaser towards adequate security for the materials/property provided/issued by the Purchaser as Free Issue Material for the due execution of the Order. Insurance for the Free Issue Material shall be arranged by the Supplier/Contractor at his risk and cost.
25. Non-compliance to tender specifications and/or tender scope and/or tender terms and conditions are liable for rejection. Decision of ITER-India in respect of non-compliance shall be final and binding on the bidders.
26. Canvassing in any form with regard to this tender will lead to rejection of the bid.
27. The Project Director, ITER-India reserves the right to accept or reject any quotations fully or partly or to cancel the enquiry without assigning any reasons.
28. This enquiry is not a commitment and the Purchaser reserves the right to reject or cancel any or all offers.
29. Jurisdiction: The Order shall be governed by the Laws of India for the time being in force. The Courts of Ahmedabad/Gandhinagar only shall have jurisdiction to deal with and decide any legal or dispute arising out of this Order.
30. Unsuccessful bidders will not be intimated about the results of the enquiry/tender.
31. Purchase will not be responsible for payment of any interest to the Supplier, in case of delay in releasing payment.
32. The price evaluation shall be carried out on Landed price.

FORMAT FOR SUBMISSION OF QUOTATION

Enquiry No. : I-IEN21033
 Name Of Party : OFFICE COPY
 Quotation No. & Date :
 Due on : 23/11/2021 by 5:00 PM (IST)

Sr No.	Material Description	Qty	Unit	Rate	Total
1	DC POWER SUPPLY	1	NOS		
2	DC POWER SUPPLY	1	NOS		
				Grand Total	

COMMERCIAL TERMS & CONDITIONS *

Sr.No	Description	Bidder's Compliance
1	Free Door delivery	
2	Packing & Forwarding (To Specify, if any)	
3	Safe Delivery Charges (Please mention if not included in rate mention above)	
4	Delivery Period (To Specify)	
5	Payment: ITER-India payment terms will apply (Refer Sr. No. 6 of Note)	Comply Yes/No (In case of No Please provide details)
6	Warranty (Two years from the date of final acceptance)	Comply Yes/No (In case of No Please provide details)
7	Validity Period (Refer Sr.No. 3 Of Terms and Condition)	Comply Yes/No (In case of No Please provide details)
8	GST (Not to be included in quoted rates)	
9	GST (Refer Sr.No. 3 of Important Note)	Comply Yes/No (In case of No Please provide details)
10	GST Registration No. (To specify)	
11	Udhyog Aadhar No. & Category (Micro/Small Enterprise, Also specify firm is owned by SC/ST/Woman/General)	
12	HSN Code	
13	Acceptance for Splitting of order at Purchaser's discretion (Refer Sr. No. 10 of Note)	Comply Yes/No (In case of No Please provide details)
14	Discount(if any)	
15	Remarks	

* Fill in the applicable details

Place:

Authorised Signatory:


Date:

Company Seal

Technical specifications for 20V, 1000A DC Power Supply For HPA-3 Filament


Sr. No.	Major Specifications		Vendor Compliance
1. AC Input specifications			
1.1	Nominal AC Input Voltage	400Vac, (3 phase + Ground) Supply	
1.2	Input Operating range	342V to 440V	
1.3	Nominal AC Input Frequency & range	50Hz (49Hz-51Hz)	
1.4	Power Factor	≥ 0.85 at Rated Power	
1.5	AC input Isolation	1500Vac input to ground	
2. DC Output specifications			
2.1	Output voltage* & current*	0 – 20V,0-1000A , Floating Output	
2.2	Output Power	≥ 20 KW , continuous duty	
	*Note	Either single unit or maximum 2-identical units can be connected in parallel configuration only with active sharing to achieve the said power rating (20kW) provided; size of the combine P.S must not exceed the given dimensions (ref. 4.1). Parallel combination should be in such a way that for remote communication (Analog Input, Analog Output, Digital Input & Digital Output) only single unit (say Master) will be considered.	
2.3	Voltage Ripple (rms)	≤ 0.5 % of rated value	
2.4	Line Regulation	≤ ± 0.1 % maximum change in output voltage For ± 10 % change in line voltage	
2.5	Load Regulation	≤ ± 0.1 % maximum change in output voltage For no load to full load change	
2.6	Efficiency	80% minimum at rated load	
2.7	Stability (Long term for 8 hrs. operation)	Constant Voltage Mode 0.1% of rated Vout	
2.8	DC output isolation	500V DC	
2.9	Voltage setting resolution	50mV or less	
3. Protections			
3.1	Fault Protection to turn off the power	1. Overvoltage (OV) protection 2. Overcurrent (OC)/Short circuit protection	

Note: Sign & stamp of bidder required on each page of duly filled Annexure-I

	Annexure-1 Technical Specification for 20V, 1000A DC Power Supply For HPA-3 Filament	Enq. No.: I-IEN21033
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Sr. No.	Major Specifications		Vendor Compliance
	supply	3. Over temperature protection	
3.2	Protection setting	OV,OC set (10-110%of rated value)	
4. Size & Weight			
4.1	Maximum Size	Dimensions: Width : 483mm , (19" inch rack compatible) Height : 267mm (6U) Depth : 610 mm (24")	
4.2	Maximum weight	90 Kg	
5. Power input & output connections			
5.1	Input Connection	Lug compatible 3 phase & PE terminals (Rear side)	
5.2	Output Connection	Lug compatible +VE and –VE terminals (Rear side)	
6. Cooling			
6.1	Cooling	Forced Air cooled	
7. Control specifications			
The power supply shall be controlled by Local (Manual) mode Remote (external voltage programming) mode			
7.1	Manual mode operation	Power Shall be operated from front panel	
7.1.1	START/STOP Function	Turn on and Turn off PS unit	
7.1.2	Metering display	Digital Display for output voltage, output current (OV set, OC set display)	
7.1.3	Voltage Setting & Protection setting	Output voltage setting, OV, OC setting through suitable encoder or multi-turn POT	
7.1.4	Power supply status display	For e.g. Fault indicator, trip indicator, output ON/OFF, standby & Output Power Mode	
7.1.5	Power switch or suitable facility	To energise control circuit without engaging power circuit.	
7.2	Remote mode operation	Power supply shall be operated with external voltage programming input	
	External programming through isolated analog and digital input / output		
	Programming and monitoring level	Analog	
		Output Voltage: 0 - 10 [VDC]	
		Output Voltage & Current Monitoring : 0 -10 [VDC]	
		Status Monitoring using Digital Signals	

Note: Sign & stamp of bidder required on each page of duly filled Annexure-I

	Annexure-1 Technical Specification for 20V, 1000A DC Power Supply For HPA-3 Filament	Enq. No.: I-IEN21033
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Sr. No.	Major Specifications		Vendor Compliance
		Input : 5 [VDC] or TTL compatible	
		Output : 5 [VDC] or TTL compatible	
	Essential Signal list for remote mode operation provided with a suitable connector		
7.2.1	Vin REF	0 -10 [VDC] proportional to 0 -100 [%] of PS output voltage.	
7.2.3	ON/OFF Status	Digital Output 5 [VDC] or TTL Indicate power supply output is enabled or ON.	
7.2.4	Fault Trip	Digital Output 5 [VDC] or TTL Indicate Interlock fault activated	
7.2.5	Start PS	Digital Input 5 [VDC] or TTL To enable the power supply output	
7.2.6	Reset faults	Digital Input 5 [VDC] or TTL To rest faults	
7.2.7	Stop PS	Digital Input 5 [VDC] or TTL To Disable the power supply output	
7.2.9	V-Monitor	0 -10 [VDC] proportional to 0 -100 [%] of PS output voltage.	
7.2.10	I-Monitor	0 -10 [VDC] proportional to 0 -100 [%] of PS output current.	
8. Standards and Regulatory compliance & Warranty			
8.1	EMC compliance	Complied with European EMC Directive for test and measurement products.Certificate of Compliance for EMC Standards should be submitted along with the offer.	
8.1.1	IEC /EN 61000 -4-2: ESD Test		
8.1.2	IEC /EN 61000 -4-3: Radiated Immunity Test		
8.1.3	IEC /EN 61000 -4-4: Fast transient Immunity Test		
8.1.4	IEC /EN 61000 -4-6: Conducted Immunity Test		
8.1.5	IEC /EN 61000 -4-8: Magnetic field Immunity Test		
8.1.6	IEC /EN 61000 -4-11: Voltage dip Test		
8.1.7	EN55022A or EN55011A: Conducted & Radiated emission test		
8.2	CE Mark	Yes	
8.3	ROHS	Yes	
8.4	Warranty	2 years minimum	

Note: Sign & stamp of bidder required on each page of duly filled Annexure-I

	Annexure-1 Technical Specification for 20V, 1000A DC Power Supply For HPA-3 Filament	Enq. No.: I-IEN21033
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Bidder Signature		
Name of the signatory & Title	Name	Title
Bidder's Official seal		
Place & Date	Place	DD-MM-YYYY


Note: Sign & stamp of bidder required on each page of duly filled Annexure-I



Technical specifications for 10V, 375A DC Power Supply
For HPA-2 Filament

Sr. No.	Major Specifications		Vendor Compliance
1. AC Input specifications			
1.1	Nominal AC Input Voltage	400Vac, (3 phase + Ground) Supply	
1.2	Input Operating range	342V to 440V AC	
1.3	Nominal AC Input Frequency & range	50Hz (49Hz-51Hz)	
1.4	Power Factor	≥ 0.85 at Rated Power	
1.5	AC input Isolation	1500Vac input to ground	
2. DC Output specifications			
2.1	Output voltage, Output current	0 – 10V,0-375A, Floating Output	
2.2	Output Power	≥ 3750 W, continuous duty	
2.3	Voltage Ripple (rms)	≤ 0.5 % of rated value	
2.4	Line Regulation	≤ ± 0.1 % maximum change in output voltage For ± 10 % change in line voltage	
2.5	Load Regulation	≤ ± 0.1 % maximum change in output voltage For no load to full load change	
2.6	Efficiency	80% minimum at rated load	
2.7	Stability (Long term for 8 hrs operation)	Constant Voltage Mode 0.1% of rated Vout	
2.8	DC output isolation	500V DC minimum	
2.9	Voltage setting resolution	50mV or less	
3. Protections			
3.1	Fault Protection to turn off the power supply	1. Overvoltage (OV) protection 2. Overcurrent (OC)/Short circuit protection 3. Over temperature protection	
4. Size & Weight			
4.1	Maximum Size	Dimensions:	

Note: Sign & stamp of bidder required on each page of duly filled Annexure-I

	Annexure-1 Technical Specification for 10V, 375A DC Power Supply For HPA-2 Filament	Enq. No.: I-IEN21033
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Sr. No.	Major Specifications		Vendor Compliance
		Width :19” inch rack compatible 483mm Height : 2U (88.9 mm) Depth : 609.6 mm (24”)	
4.2	Maximum weight	25 kG	
5. Power input & output connections			
5.1	Input Connection	Lug compatible 3 phase & PE terminals	
5.2	Output Connection	Lug compatible +VE and -VE terminals	
6. Cooling			
6.1	Cooling	Forced Air cooled	
7. Control specifications			
The power supply shall be controlled by Local (Manual) mode Remote (external voltage programming) mode			
7.1	Manual mode operation	Power Shall be operated from front panel	
7.1.1	START/STOP Function	Turn on and Turn off PS unit	
7.1.2	Metering display	Digital Display for output voltage, output current (OV set, OC set display)	
7.1.3	Voltage Setting & Protection setting	Output voltage setting, OV, OC limit setting through suitable encoder or multi-turn POT	
7.1.4	Power supply status display	For e.g. Fault indicator, trip indicator, output ON/OFF, standby & Output Power Mode	
7.1.5	Power switch or suitable facility	To energise control circuit without engaging power circuit.	
7.2	Remote mode operation	Power supply shall be operated with external voltage programming input	
	External programming through isolated analog and digital input / output		
	Programming and monitoring level	Analog	
		Output Voltage: 0 - 10 [VDC]	
		Output Voltage & Current Monitoring : 0 -10 [VDC]	
		Status Monitoring using Digital Signals	
		Input : 5 [VDC] or TTL compatible	
	Output : 5 [VDC] or TTL compatible		
Essential Signal list for remote mode operation			

Note: Sign & stamp of bidder required on each page of duly filled Annexure-I




**Annexure-1 Technical Specification for 10V, 375A DC Power
Supply For HPA-2 Filament**

Enq. No.: I-IEN21033

Sr. No.	Major Specifications		Vendor Compliance
	provided with a suitable connector		
7.2.1	Vin REF	0 -10 [VDC] proportional to 0 -100 [%] of PS output voltage.	
7.2.3	ON/OFF Status	Digital Output 5 [VDC] or TTL Indicate power supply output is enabled or ON.	
7.2.4	Fault Trip	Digital Output 5 [VDC] or TTL Indicate Interlock fault activated	
7.2.5	Start PS	Digital Input 5 [VDC] or TTL To enable the power supply output	
7.2.6	Reset faults	Digital Input 5 [VDC] or TTL To rest faults	
7.2.7	Stop PS	Digital Input 5 [VDC] or TTL To Disable the power supply output	
7.2.9	V-Monitor	0 -10 [VDC] proportional to 0 -100 [%] of PS output voltage.	
7.2.10	I-Monitor	0 -10 [VDC] proportional to 0 -100 [%] of PS output current.	
8. Standards and Regulatory compliance & Warranty			
8.1	EMC compliance	Complied with European EMC Directive for test and measurement products. Certificate of Compliance for EMC Standards should be submitted along with the offer.	
8.1.1	IEC /EN 61000 -4-2: ESD Test		
8.1.2	IEC /EN 61000 -4-3: Radiated Immunity Test		
8.1.3	IEC /EN 61000 -4-4: Fast transient Immunity Test		
8.1.4	IEC /EN 61000 -4-6: Conducted Immunity Test		
8.1.5	IEC /EN 61000 -4-8: Magnetic field Immunity Test		
8.1.6	IEC /EN 61000 -4-11: Voltage dip Test		
8.1.7	EN55022A or EN55011A: Conducted & Radiated emission test		
8.2	CE Mark	Yes	
8.3	ROHS	Yes	
8.4	Warranty	2 years minimum	

Note: Sign & stamp of bidder required on each page of duly filled Annexure-I

	<p align="center">Annexure-1 Technical Specification for 10V, 375A DC Power Supply For HPA-2 Filament</p>	<p>Enq. No.: I-IEN21033</p>
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Bidder Signature		
Name of the signatory & Title	Name	Title
Bidder's Official seal		
Place & Date	Place	DD-MM-YYYY

Note: Sign & stamp of bidder required on each page of duly filled Annexure-I

Annexure-II

(to be printed in letter head)

Self-Certification under preference to Make in India order
Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 as amended from time to time and as applicable on the date of submission of tender/enquiry, we hereby certify that we M/s _____ are Class I local supplier/ Class II local supplier and quoted item/service against ITER-India Enquiry/Tender No. Dated has/have local content i.e., ____%. Details of location at which local value addition will be made as follows:

We also understand, false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

Signature with date:

Name:

Designation:

Official Seal