

**INSTITUTE FOR PLASMA RESEARCH**  
**FCIPT**

**Plot No. A-10-B, G.I.D.C. Electronics Estate, Sector-25,  
Gandhinagar – 382 044, Gujarat State  
Phone no. 079-23269000/23269002, Fax 23269001**

**TENDER NOTICE NO.FCIPT/TN/PUR/003/2009-2010 DATED 05/01/2010**

Sealed tenders are invited from reputed manufacturers for supply of 1 No. of 25 kW IGBT based Arc Plasma Power Source. Tender documents are available on IPR website [www.ipr.res.in/purchasetenders.html](http://www.ipr.res.in/purchasetenders.html). Interested and eligible parties may at their option, download the tender documents from the website and submit their offer along with a **tender fee of Rs. 200/- (Non refundable)** in the form of Demand Draft from any nationalized / scheduled bank drawn in favour of **Institute for Plasma Research** and payable at **Ahmedabad** as per the details given in the tender documents. In case party desires to collect the tender documents by post, they may contact the Purchase section along with prescribed tender fee. Tender documents will be issued up to **22-01-2010**.

Tenders in a sealed envelope superscribing the envelope with the above tender no., date, due date and brief description of tendered item along with Tender Fee of Rs.200/- and EMD for Rs. 5,000/- by way of Demand Draft from any nationalised / scheduled bank drawn in favour of **Institute for Plasma Research** and payable at **Ahmedabad** should be submitted to the Purchase Cell at the above address by 1.00 p.m. on **10/02/2010**, which will be opened on the same day at 2.30 p.m. in the presence of attending tenderers. Director IPR reserves the right to cancel the tender in part or in toto without assigning any reason.

**Supply of 25 kW IGBT based Arc Plasma Power Source : 01 No.****NOTE:**

1. Full details and specifications of the items and general instructions to be followed regarding submission of tenders are indicated in the tender documents.
2. **Proof for fulfillment of eligibility criteria mentioned hereunder should be submitted along with the tender. If the tender is submitted without valid documents, we shall not consider your offer. Quotations received without proof of eligibility criteria will be rejected.**
3. Tender documents can also be obtained by submitting a written request to the Purchase Cell, FCIPT together with prescribed tender fee, provided that the eligibility criteria is fulfilled. Last date for issue of Tender documents is **22.01.2010**.
4. While requesting for Tender Documents, such request shall indicate the **“REQUEST FOR TENDER DOCUMENTS AGAINST TENDER NOTICE NO. FCIPT/TN/PUR/003/2009-2010 DATED 05/01/2010”**.
5. The tender fee of Rs. 200/- (non refundable) should be made in the form of DEMAND DRAFT from any nationalized bank drawn in favour of *Institute for Plasma Research* and payable at *Ahmedabad*. Vendor's name and tender number shall be indicated on the reverse side of the Demand Draft.
6. DD should not be prior dated to the date of advertisement.
7. Those who use the download tender documents from IPR Website may submit the prescribed Tender Fee keeping in a separate envelope along with the tender.
8. **Tender received without the prescribed tender fee will be rejected.**
9. No request for the extension of due date will be considered.
10. Late/Delayed offers will not be accepted.
11. **Tenders in a sealed envelope super scribing the envelope with the above tender no., date, due date and brief description of tendered item along with EMD for Rs. 5,000/- by way of Demand Draft drawn in favour of *Institute for Plasma Research* payable at *Ahmedabad* should be submitted to the *Purchase Officer* at the above address by 1.00 p.m. on 10/02/2010. Tenders received upto 1.00 p.m. on 10/02/2010 will be opened on the same day at 2.30 p.m. in the presence of attending tenderers.**
12. In the event of any date indicated above is a declared Holiday, the next working day shall become operative for the respective purpose mentioned herein.
13. FCIPT/IPR will not be responsible for any delay/loss of documents in transit.
14. Tenders received without the details asked for including proof of eligibility for participating in the tender may not be considered.
15. Tenderers should furnish/enclose full technical details/literature, delivery period and confirm the terms and conditions attached with the tender.
16. **Those who do not meet with the eligibility criteria need not submit Tender.**

- 17. Those who are quoting on behalf of their foreign Principals should submit a Proforma Invoice of Foreign Principals in foreign currency.**
18. The Director, IPR reserves the right to accept or reject any offer in full or part thereof without assigning any reason thereof.
- 19. Quotation received without EMD will not be considered .**
20. The representative who is going to attend the tender opening should carry an authorization letter from the organization for participation in the tender opening.

**ELIGIBILITY CRITERIA:** (i) The Vendor should have past experience of manufacturing, supplying IGBT based power sources for ARC Plasma torch Systems (Attach Copy of Purchase Orders) (ii) Party to provide full load Plasma Arc demonstration of the equipment prior to the dispatch of the equipment.

**NOTE:** - Issue of tender documents does not mean that a vendor is qualified to submit tenders. FCIPT/IPR's decision to consider as to whether a vendor has met with the eligibility criteria is final.

### **INSTRUCTIONS TO BIDDERS AND TERMS AND CONDITIONS**

1. The quotation and any order resulting from this tender/enquiry shall be governed by our Conditions of contract and supplier quoting this enquiry shall be deemed to have read and understood the same in toto.
2. Where counter terms and conditions have been offered by the supplier, the same shall not be deemed to have been accepted by us, unless our specific written acceptance thereof is obtained.
- 3. Tender Fee: Tenders received without the prescribed Tender Fee will be rejected.**
4. **Clarifications:**  
Any technical and commercial questions, information, clarifications, etc. that may be required pertaining to this Tender/enquiry may be obtained from the Purchaser before submitting the tender.
- 4.1 Bids shall be complete in all respects and shall include properly filled in prices, other specifications, schedules, relevant drawings and catalogues as necessary along with the bid covering letter, all in duplicate.
5. **Quotation:** Your quotation superscribing our tender/enquiry No., date, due date and short description of item should be submitted to the Purchase Officer, FCIPT/IPR in a sealed envelope on or before the due date. Late and delayed quotations will not be considered. FCIPT/IPR will not be responsible for postal delays or any other delays in receipt of quotation. Envelopes received without Enquiry number, date, due date and short description of item may be rejected. The quoted prices should be firm for a period of 120 days from due date for placing order. FCIPT/IPR is not bound to accept lowest rate/s. FCIPT/IPR reserves the right to place order on one or more parties irrespective of whether he is lowest or not. The scope of supply includes insurance by the Contractor/Supplier.

6. **Specifications:** Material should be offered strictly conforming to our specifications/drawings. Deviation, if any, should be clearly indicated by the supplier in their quotation. The supplier should also indicate the Make/Type number of the materials offered and catalogues, technical literature and samples, wherever necessary should accompany the quotation.
7. **Terms of prices:** Quotation should be submitted on door delivery basis without extra charge wherever possible. For quotations on Ex-Works, Ex-godown basis the approximate packing and forwarding charges should be indicated by the supplier. In the case of local suppliers, the material is to be delivered at our stores free of charge. Unit rate/s should be valid throughout the validity of purchase order/contract period 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/contract.
  - 7.1 Prices are required to be quoted according to the units indicated in the tender form. 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.
  - 7.2 Wherever options are specified in the tender documents, FCIPT/IPR reserves the right to accept any option/s irrespective of whether all the vendors have quoted for all the options or not. The decision of FCIPT/IPR in this regard will be final.
8. 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.
9. FCIPT/IPR 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.
10. **Sales Tax etc.:** We have no "C" or "D" form. The percentage of Sales Tax/VAT, surcharge, VAT, if applicable, and other levies legally leviable and intended to be claimed should be clearly indicated in the tender. Where this is not done, no claim on these accounts would be admissible later.
  - 10.1 **VAT Registration:** You may submit a copy of VAT Registration Certificate along with your quotation.
  - 10.2 **Service Tax :** Wherever Service Tax is applicable, it should be mentioned clearly. You may indicate percentage of service tax in your quotation.
  - 10.3 **Excise Duty:** Extra as applicable. Proof of payment of excise duty to be furnished.
  - 10.4 **Octroi :** Octroi is not applicable in our case.
- 11 **Delivery Date:** The supplier must indicate the firm delivery date by which the materials will be dispatched / delivered by them from the date of our order.

12. **Inspection:** Materials on its arrival at FCIPT/IPR will be inspected by Stores In-charge, and his decision in the matter will be final.
13. **Earnest Money Deposit (EMD):** Tenderer should furnish Earnest Money Deposit (EMD) for Rs. 5,000/- by way of Demand Draft drawn in favour of *Institute for Plasma Research* payable at Ahmedabad. Quotation received without EMD will be rejected at the discretion of IPR.
- 13.1 EMD of unsuccessful Bidder will be returned after finalizing the Contract / Placing Purchase Order.
14. **Payment:** Within 30 days from the date of acceptance. Wherever, advance payment is involved, it will be paid only against Bank Guarantee from Nationalised / Scheduled Bank.
15. No correspondence will be entertained within 30 days from the date of receipt of material and bills, whichever is later.
16. Quotation should be valid at least for 120 days from the date of opening of the tender.
17. **Guarantee:** The Stores/material/goods/equipment offered by the bidder should be guaranteed for a minimum period of twelve months, against defective materials, design, workmanship, operation or manufacture. For defects noticed during the Guarantee period, replacement/ rectification should be arranged free of cost within a reasonable period of such notification. In cases, where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.
18. **Security Deposit:** The successful Bidder will have to furnish to the Purchaser an interest free security deposit for 10% (Ten percent) of the order value in the form of Bank Guarantee of an equivalent amount from a nationalised/scheduled Bank within 15 days from the date of LOI/Purchase order and the said Guarantee should be valid till the goods are accepted by FCIPT/IPR. The Security deposit shall be forfeited in case the selected Bidder does not start the work within the time limit specified or fail to complete the work within the stipulated delivery period or fail to comply with any of the terms and conditions in the purchase order/contract.
19. **Liquidated Damages:** In addition to forfeiting Security Deposit, Liquidated Damages for the delay shall be 1/2% (half percent) of the total order value for the delay of each week in the scheduled time of supply or the scheduled date of final completion for the work as the case may be, subject to a maximum of 5% (five percent) of total order value. Liquidated Damages will be recovered from the payment due to the supplier.
20. **Performance Bank Guarantee:** The Contractor/Supplier will have to furnish to the Purchaser (FCIPT/IPR) an interest free performance bank guarantee for 10% (Ten percent) of the order value/ contract value by Demand Draft or by way of providing a Bank Guarantee from a Nationalised/Scheduled Bank valid for a period of 12 months/guarantee period mentioned in the order from the date of installation/acceptance for satisfactory performance of the work carried out by the Contractor.

21. The Contractor/Supplier shall at all times indemnify the purchaser against all claims which may be made in respect of the stores/material/goods/equipment 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 contract.
22. **BAR/PERT Charts:**  
To be provided as per the requirement of Purchaser.
23. **Sub-Contract:** All sub-contractors are required to be appraised and approved by the Purchaser before placement of orders by the Vendor.
24. **Jurisdiction:** The contract/Purchase order shall be governed by the Laws of India for the time being in force. The Courts of Ahmedabad only shall have jurisdiction to deal with and decide any legal or dispute arising out of this contract.
25. **Settlement of disputes:** Any disputes or difference arising out of or in connection with the Contract/Purchase order shall be to the extent possible settled amicably between the parties.  
  
If amicable settlement cannot be reached then all disputed issues shall be settled by arbitration.
26. **Arbitration:** In the event of any dispute or difference arising under this Contract, the matter shall be referred to the Arbitrators one each nominated by the Purchaser and Contractor from their respective organizations. In case the said Arbitrators are not able to settle the dispute by themselves, the matter shall be referred to the Arbitrator mutually nominated by the Purchaser and the Contractor and whose decision will be final and binding on both the parties. The venue of arbitration will be IPR. Subject to as aforesaid the Arbitration Act, 1940 and the rules thereunder and any statutory modification thereof for the time being in force shall be deemed to apply to the Arbitration proceedings under this Contract.
27. **Installation/commissioning/site works:** Wherever these activities are part of scope of work/specifications, Vendor should carryout out the same without any extra cost to FCIPT/IPR.
28. **Free Issue Material (FIM) (if specified in the tender documents):** Successful tenderer will have to furnish in the form a Bank Guarantee or in any other form as called for by the Purchaser towards adequate security for the materials/property provided/issued by the Purchaser as Free Issue Material (FIM) for the due execution of the contract. Successful bidder shall arrange insurance for FIM at his expenses.
29. Late/delayed tenders will not be accepted. Incomplete tenders may be rejected at the discretion of FCIPT/IPR.
30. **FCIPT/IPR is not bound to accept the lowest tender. FCIPT/IPR reserves the right to select any vendor at its sole discretion.**

31. **Result of the tenders:** Unsuccessful tenderers will not be informed of the result of their tenders.
32. The Director, IPR reserves the right to accept or reject any quotation/tenders fully or partly without assigning any reason.
33. FCIPT/IPR reserves the right to place order on a single party or to split the order at its sole discretion.

We agree to above terms & conditions.

Place :

Date :

Signature of Bidder  
with seal

**Note:** A copy of our terms & conditions duly signed should accompany your quotation.

### **TECHNICAL SPECIFICATIONS OF 25 kW IGBT based Arc Plasma Power Source**

1	INPUT VOLTAGE	415 volts 3 phase 50 Hz (4 wire- RYBN system)
2	INPUT CURRENT	45 Amps per Phase
3	OUT PUT CURRENT RANGE	Variable from 25A to 250Amps DC
4	OPEN CIRCUIT VOLTAGE. (OCV)	250 Volts DC
5	MAXIMUM LOAD VOLTAGE	100 VOLTS DC
6	CLASS OF INSULATION	H Class
7	COOLING	For IGBT by Closed loop water cooling. Other components to be cooled either by water or forced air
8	RIPPLE FACTOR	< 0.5%
9	EFFICIENCY	> 80 %
10	POWER FACTOR	> 0.95
11	CONTROL	Constant current
12	FILTERATION	By Output Choke Circuit
13	PROTECTION CIRCUIT	Trip circuit to be provided in case of water failure, over voltage and under voltage. In case of short circuit, output current should drop down to the minimum.
14	FRONT -PANEL	Digital volt-meter and ammeter; Control ON switch, Start/Stop/and emergency push button; Current variation pot. An out-put terminal with adequate cross section to be provided. Incoming Main MCCB to be placed at the rear of the Panel.

#### **Fault Module Indications**

- 1) LOW VOLTAGE
- 2) HIGH VOLTAGE
- 3) TEMPERATURE
- 4) SYSTEM ON
- 5) SYSTEM TRIP
- 6) 3 PHASE INDICATORS

**PRICE BID FORMAT**

*(Bidders are requested to offer their price bid in the following format)*

<b>Sr. No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit Cost (Rs.)</b>	<b>Total price (Rs.)</b>
1.	Supply of 25 kW IGBT based Arc Plasma Power Source (As per the detailed specifications attached)	01 No.		

	<b><u>Indicate percentage except Freight</u></b>		
	Percentage	Included	Excluded
<b>Packing &amp; Forwarding</b>			
<b>Excise Duty</b>			
<b>Sales tax / VAT</b>			
<b>Insurance</b>			
<b>Freight</b>	Rs.		

Place:

Signature of Bidder with official seal

Date: