



www.iter-india.org

ITER-India, Institute for Plasma Research

Block A, Sangath SKYZ, Bhat- Motera Road, Koteshwar, Ahmedabad 380005 Gujarat, India. Ph.No.

: +91-79-23269656/9575 FAX : +91-79-23269591 / 9501

Email : purchase@iter-india.org

ENQUIRY - LOCAL

OFFICE COPY ENQUIRY NO : I-IEN20047
Date : 08/10/2020
Due Date : 27/10/2020 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. Therefore, please consider GST in your quotation accordingly.

Sr No.	Material Description	Quantity	Unit
1	Dry Type Isolation Transformer (Refer Attachment for Detailed Specifications)	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's compliance & notes, complied Yes/No & Remarks 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) Bidder under the category of Micro & Small Enterprise (MSE) for the quoted item shall attach MSE certificate. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible under the policy. Traders are excluded from the purview of this Policy.
- (8) QUOTATIONS TO BE SUBMITTED IN INDIAN CURRENCY ONLY. QUOTATIONS RECEIVED OTHER THAN INDIAN CURRENCY WILL BE REJECTED. NO CUSTOMS DUTY EXEMPTION CERTIFICATE WILL BE ISSUED.
- (9) Either OEM or their valid authorised dealer/distributor can submit the bid. Both cannot submit the bid for same item in single tender.

End:- as above


Rakhi Dharamdasani
OFFICER-I (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 in to
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 superscribing 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/off 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 twelve months 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-IEN20047
Name Of Party : OFFICE COPY
Quotation No. & Date :
Due on : 27/10/2020 by 5:00 PM (IST)

Sr.No.	Material Description	Qty	Unit	Rate	Total
1	Dry Type Isolation Transformer (Refer Attachment for Detailed Specifications)	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 (Refer Sr. No. 22 of Terms and Conditions)	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 (Refer Sr.No.3 of Important Note)	Comply Yes/No (In case of No Please provide details)
9	GST (Not to be included in quoted rates)	
10	GST Registration No. (To specify)	
11	HSN Code	
12	Udhyog Aadhar No. & Category (Micro/Small Enterprise)	
13	Discount (If any)	
14	Remarks	

* Fill in the applicable details

Place:

Authorised Signatory:

Date:

Company Seal



Technical Specifications Document for Dry Type Isolation Transformer

1.0 Scope of Supply

Manufacturing, Testing (both at factory and site), packaging, transportation and delivery (at purchaser's site) of isolation transformers with the specifications as listed in section 2.0.

2.0 Technical Specifications

S.No	ITER-India Specifications		Vendor Compliance & Notes
1.	Type	Dry Type (Epoxy Encapsulated)	
2.	Rated Power	1600VA	
3.	Primary voltage	200Volts	
4.	Operating Frequency	50Hz \pm 5%	
5.	Secondary voltage	40V	
6.	Secondary Current	40A	
7.	K-Factor	K-13 or specify	
8.	Material for Winding	Copper	
9.	Percentage Impedance	<10%	
10.	Winding Insulation Class	Class H (>180°C)	
11.	Isolation level (b/n Primary & Secondary)	75 kV DC	
12.	Operating Temperature	<60°C	
13.	Transformer dimensions/ Enclosure	Specify in 1m x 1m x 1m W x H x D (a compact unit is preferred)	
14.	Efficiency	~80%	
15.	Shielding between the Core and secondary winding as depicted in the picture.	As depicted in suggested drawing	
16.	Terminations (as per reference image)	Should be on Enclosure HV- Primary winding (200V) should be housed in terminal box. LV- Secondary winding would operating on -55kVDC line, (should be corona free)	

Table 1 Technical Specifications of Isolation Transformers

**Note: Transformer has to be driven by 1- ϕ , full wave-voltage controller (Input signal is a chopped AC Wave to transformer) and secondary winding has to feed the load which is floating at -55kVDC line.*

Suggested Drawing

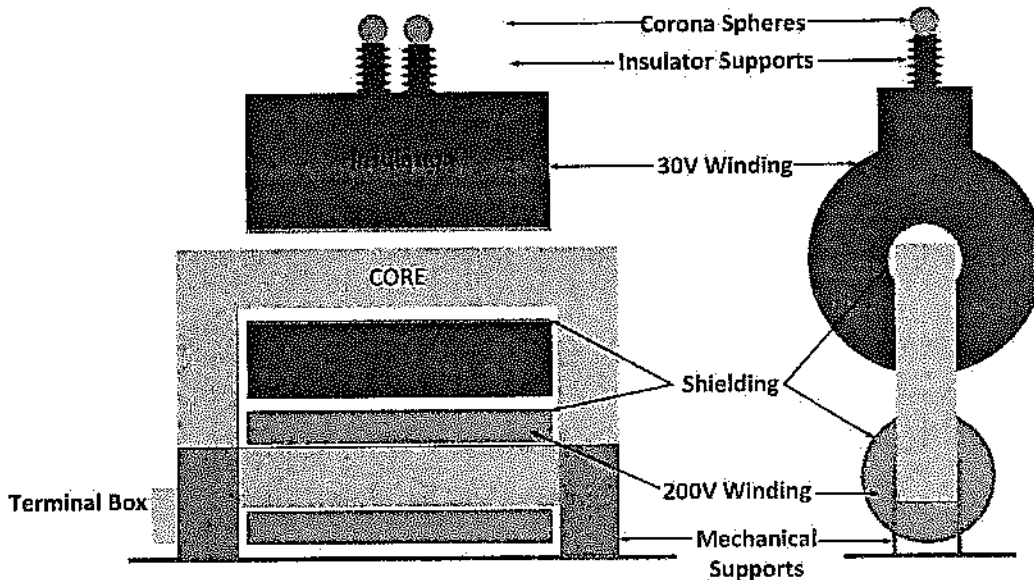


Figure 1 Suggested drawing

3.0 Warranty

The Supplier should provide at least 1-year standard warranty, i.e., repair/replace free of cost in case of a failure during the warranty period.

4.0 Delivery Period

The Supplier should specify the committed delivery period.

5.0 Packing and Shipment

The material should be appropriately packed with one set of documentation (test reports of unit and materials used thereof) & dispatched to ITER-India Lab, IPR with the following address:

**ECRH Laboratory,
ITER-India Lab Building,
Institute for Plasma Research,
Near Indira Bridge, P.O. Bhat Gandhinagar -382 428, India**

Prior information of the material dispatch shall be given to ITER-India Purchase Officer.

6.0 Acceptance Tests

6.1 Visual Inspection

6.2 Transformer winding resistance measurement

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

- 6.3 Measurement of insulation resistance.
- 6.4 High Voltage Withstand Test
- 6.5 OC & SC Test
- 6.6 Temperature rise test of transformer.

7.0 Annexure-1: Application Description

Gyrotron is a vacuum electronics device used for generating high power high frequency RF power. In order to assist the thermionic emission of electrons in tube, its filament must be energized to high temperatures. As this filament located close to the cathode and is referred to the cathode potential which is at the accelerating voltages of $\sim 55\text{kV}$ DC. As this is unusually high voltage the filament power supply, which is generally referred to ground, must be isolated with filament which is floating at high voltages. In order to meet this isolation and electrical power requirement tube a stepped-down, Isolation transformer is required with specifications prescribed latter.

A schematic of the Gyrotron and its assembly is shown below for reference:

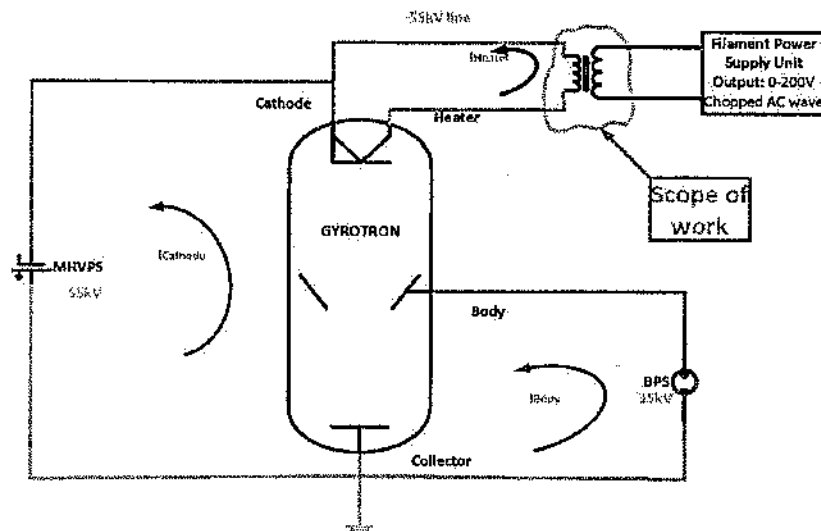


Figure 2 Schematic Circuit arrangement of the GYROTRON Tube

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

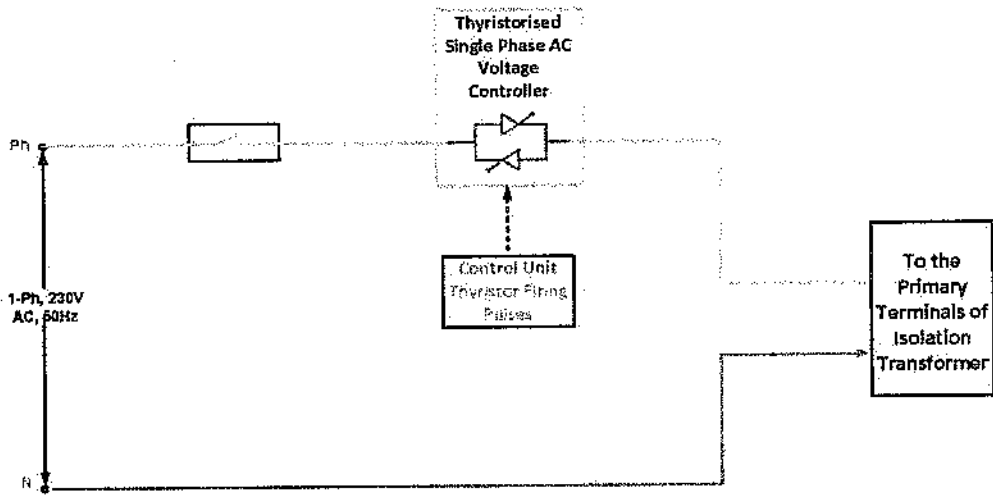


Figure 3 Schematic circuit of the Filament Power Supply Unit.

Bidder Signature		
Name of the signatory & Title		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