



**CENTRE OF PROPULSION TECHNOLOGY (CoPT)  
INDIAN INSTITUTE OF TECHNOLOGY MADRAS  
CHENNAI – 600036, INDIA**

Ref. No. ASE/1718/143/COPT/SRCH/025

Date: ~~22~~ 08.2019

Item name: **Supply of Pulse Arc Welder/Thermocouple Bead Welder**

Due Date: ~~16~~ 09.2019

1. Quotations are invited in **single bid system** for the item described overleaf (in Annexure I). The offer /bid should contain detail of the compliance to the technical specifications and the commercial. The Financial part should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The words "Tender for Supply of Pulse Arc Welder/ Thermocouple Bead Welder" should be written on the left side of the Outer bigger cover and sealed.
2. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
3. The total cost of the equipment in terms of CIP Chennai should be clearly mentioned .
4. Terms of warranty and guarantee should be explicitly mentioned.
5. Packing and delivery charges, customs and clearance duty should be clearly stated.
6. Goods shall not be supplied without an official supply order.
7. Local firms : Quotations should be for free delivery to this institute. If quotations are for ex-godown, delivery charges should be indicated separately.
8. Firms outside Chennai: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If ex-godown, packing, forwarding and freight charges must be indicated.
9. If the required good is to be imported, delivery with CIP upto Chennai airport must be made. All relevant documents for customs clearance and other import formalities have to be provided well in advance.
10. IIT Madras is eligible for concessional rate of GST 5%(for purchase of equipments, parts and consumables used in research). Concessional GST certificate will be issued after issue of purchase order.
11. The rate of sales / general taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for sales / general taxes will be admitted at any stage and on any ground whatsoever.
12. Payment :Payment is after delivery of goods. Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later. Advance payment will be considered only in special cases.
13. IIT Madras is eligible for concessional rate of customs duty. Necessary certificate will be issued on demand.
14. IIT Madras has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason.
15. The sealed quotation may be sent to

**The Purchase Manager,  
CoPT OFFICE, NCCRD Building  
Beside Aerospace Engineering Dept., IIT Madras,  
Chennai – 600036, Ph. (O) +91-44-22579863**





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**ANNEXURE-1**

**Technical specifications for pulse arc welder/Thermocouple Bead Welder**

**QUANTITY REQUIRED – 1 No.**

1. APPLIED ENERGY: RANGING FROM 5 TO 50 JOULES
2. BEAD DIAMETER TO WELDED IN SPOT : 0.75 MM TO 2 MM
3. WELDING TIME : ~0.5 TO 1 SECONDS
4. PEAK CURRENT : 500 TO 1500 AMPS
5. RETRACTABLE ELECTRODE
6. OBSERVING MICROSCOPE : 3X TO 10X
7. DISPLAY : ANY MODE
8. USB UPGRADABLE SOFTWARE FOR INTERFACING WITH PC
9. UV AND IR PROTECTED
10. CONTROL: MANUAL OR EXTERNAL TRIGGER THROUGH TTL SIGNAL /(RS 232 INTERFACE)?
11. OPERATING TEMPERATURE: UPTO 50 DEGREES AMBIENT TEMPERATURE.
12. POWER REQUIREMENTS: 100-240 V AC 50HZ
13. WARRANTY TERMS MUST BE ONSITE AT IIT,MADRAS FOR AT LEAST 1 YEAR.
14. EXTENDED WARRANTY OPTIONAL MUST BE AVAILABLE.

**ACCESSORIES:**

1. DATA COMMUNICATION CABLE(ETHERNET/USB) AND OTHER NECESSARY CABLES TO BE PROVIDED.


**OPTIONAL:**

1. PLEASE QUOTE FOR 1 YEAR AND 2 YEAR EXTENDED WARRANTY

Contact person for technical clarifications:

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