



## Department of Aerospace Engineering

Indian Institute of Technology Madras  
Chennai – 600 036, India

**Prof. P. A. Ramakrishna**  
PROJECT COORDINATOR

**REF.NO. ASE/PARM/GTE/2019-20(Re)**

**Dated: 19/06/2019**

**Due date: 03/07/2019**

Dear Sir,

1. Quotations are invited in duplicate for the various items **shown below**/overleaf/enclosed list.
2. The quotations are to be **in two parts** as:  
**Technical Offer and as Commercial offer**  
The two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in separate envelopes must be enclosed in one bigger envelope duly sealed and super scribed with reference number and due date and must be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The quotations duly sealed and super scribed on the envelope with reference no. and due date, should be addressed to the undersigned so as to reach him or before the **due date** stipulated above.
4. Quotations should be valid for 60 days from the due date and period of delivery be indicated.
5. Local firms to quote for free delivery to this Institute. If quoted for Ex-godown delivery charges are indicated separately.
6. Relevant literature pertaining to the items quoted with full specifications.
7. Sales Tax/General Taxes/ED if applicable and such other taxes legally legible and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at any stage. The taxes legible should take into consideration that we are entitled to have concessional Sales Tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession is given. Sales Tax Certificate will be issued at the time of final settlement of the bill.
8. Goods should be supplied in carriage paid and insured.
9. Goods shall not be supplied without an official supply order.
10. Every effort will be made to make payment within 30 days from the date of bill/acceptance of goods whichever is later.
11. The Guarantee period of the item may be indicated clearly.
12. In case of LC. Payment 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation of the equipment.
13. IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
14. **Acceptance and Rejection-** I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or rejects it in full without assigning any reason.
15. **Fax and Email quotations are not acceptable.**

Yours faithfully,

**Project coordinator**

**Items required: Gas turbine engines with after burner as per specifications enclosed**

Phone Nos.: (044) 2257 5000 / 4018 FAX: (044) 2257 4002, E-mail: parama@iitm.ac.in



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### **Specifications of the gas turbine engine (1 Nos.):**

<b>Sl. No.</b>	<b>Item/specification</b>	<b>Range/Type/Description</b>
1.	Maximum Thrust at Sea Level	28-30 kg without after burner (Dry thrust)
2.	Engine outer diameter	less than 150 mm
3.	After Burner Outer diameter	315 -320 mm
4.	After Burner Inner diameter	310 -320 mm
5.	After Burner Length	300 mm
6.	Maximum RPM	90000-100000
7.	Fuel type	Diesel/Kerosene
8.	Overall Weight	less than 5 kgZ
9.	Specific fuel consumption	less than 1 kg/min@ max thrust

**Note: Please see next page for the additional requirements.**

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### **Additional Requirements:**

1. Vendors should provide continuous technical support and maintenance of equipment.
2. If the waiting period for repair during warranty exceeds more than 15 days, then the warranty period shall be extended by the amount of days taken for repair.
3. Vendors have to provide warranty for a minimum of one year. Cost of annual system support/ maintenance contract once the warranty period is over has to be quoted for a period covering 5 years from the date of purchase. Payment for the AMC will be made only at the end of warranty period on yearly basis.
4. Vendors must have sufficient experience in supplying equipment in reputed organizations for research purpose. They must provide references of end users whom we can contact for their opinion.
5. Vendors must provide detailed documentation for the equipment, including calibration certificate, design certificate.
6. Vendors may be called to visit and give presentation/demonstration on the equipment after opening the technical bid. They need to provide the approximate date for this presentation in the bid. The time period for this presentation would be 14 days from the date of opening of the bid.
7. Vendors must provide training to our technical staff for using the equipment.
8. All the expenses for installation, training and post sales technical support will be borne by the vendor.

**Project coordinator**