



DEPARTMENT OF APPLIED MECHANICS,
BIOMEDICAL ENGINEERING GROUP
I.I.T. MADRAS CHENNAI-600036

Dr. Arun K. Thittai
Associate Professor

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Ref. No.: APM/HODX/AKT/16-17/001

DATE:17/11/2016

DUE DATE: 09/12/2016


Quotations for RF Power Amplifier for High Intensity Focused Ultrasound Applications

1. Quotations are invited in duplicate for the various items shown in Enclosed list (Annexure - I).
2. Quotations are invited as TWO-BID system, i.e., technical bid and financial bid.
3. The Quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
4. The Quotations should be valid for sixty days from the due date and the period of delivery required, warranty terms etc. should also be clearly indicated. A minimum of one year warranty required.
5. Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
6. Compliancy certificate is to be provided indicating conformity to the technical specifications.
7. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
8. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses.
9. Packing and delivery charges must be clearly indicated.
10. 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. The taxes leviable 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. Sales Tax Certificate will be issued at the time of final settlement of the bill.

11. Goods should be supplied carriage paid and insured.
12. Goods shall not be supplied without an official supply order.
13. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.
14. In case of LC, 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 software.
15. 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
16. 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 reject it in full without assigning any reason.
17. Kindly send the quote to the undersigned co-ordinator.


Dr. ARUN K. THITTAI
Associate Professor
Dept. Of Applied Mechanics
Indian Institute of Technology Madras
Chennai - 600 036.

(Co-ordinator)


प्राध्यापक एवं विभागाध्यक्ष
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ANNEXURE - I

TECHNICAL SPECIFICATIONS:

S.No	Specifications	Description
1	Class of Operation	Class A
2	Frequency Range	10 KHz to 12 MHz
3	Rated Power Output	100 Watts (P1dB) min
4	Saturated Power Output	10 KHz to 12 MHz > 150 W
5	Gain	50 dB (min)
6	Input Power for rated Pout	1 mW
7	Front Panel Meter	Indicate up to 200 Watts into 50 Ω
8	Protection:	Input: Unit should withstand input signal of +13 dBm without damage (1.0 V rms) max. and infinite load VSWR.
9	Cable length	at least 2 meters \pm 0.1m
10	Connector	BNC on both ends
11	The item should have supplied to other Research Labs/Institutions and used for HIFU application purposes. Provide contact details for reference.	


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