



भारतीय प्रौद्योगिकी संस्थान मद्रास चेन्नै / 600 036
INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI 600 036
Office of the Dean Academic Courses
रभाष/Phone No: [044] 2257 8030 ई-मेल/ E-mail: vjk@iitm.ac.in



प्रो. वी. जगदीश कुमार
Prof. V. Jagadeesh Kumar
Dean Academic Courses

दिनांक/Dated: 23/10/2019

INVITING QUOTATIONS for

Ref.No.	IITM	ACADEMIC	19-20	ACTIVE TWO WAY SPEAKER	005	SPL
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DUE DATE : 18/11/2019.

INVITING QUOTATIONS for ACTIVE TWO WAY SPEAKER

Dear Sirs,

1. Quotations are invited in duplicate for the **ACTIVE TWO WAY SPEAKER** in Two Bid System (specification attached).
2. The Quotations are to be in two bid system as: Technical bid and Commercial bid. Two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in a separate envelop must enclosed in the one bigger envelop duly sealed and superscribed with reference number and due date and, should be addressed to the undersigned so as to reach him on or before the due date stipulated above. A blank price quote (identical to the Commercial bid with numbers removed) should be enclosed with the Technical Part.
3. The Quotations should be valid for Ninety days (90 days) from the due date and the period of delivery required should also be clearly indicated.
4. 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.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms: Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms Outside Madras : Quotations should be for CIF/F.O.R. Madras. If CIF/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.
8. 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.



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9. IN case of import, the insurance & Freight charges should not exceed 6% of FOB value. You are requested to quote FOB price as well as CIF, CHENNAI mentioning Freight & Insurance charges separately. No Ex-works pricing is considered.
10. No Advance Payment will be made for Indigenous purchase. 100% Payment against Delivery on satisfactory installation for local purchase can be agreed to. For Imports normally payment will be made by Letter of Credit only (Terms 90 % Payment will be released against dispatch of shipping documents and 10 % will be released after satisfactory installation). Sometimes The Rule 159 GFR may be allowed (i.e.)30 % Advance Payment against B.G. (Bank Guarantee) and 70 % Payment after supply (All the B.G. Charges will be borne by the supplier only). Demurrage charges (if any) will be borne by the supplier & it will be deducted from the balance 10%. Initial opening of Letter of Credit charges will be borne by us. If any amendment is requested for, the charges for the amendment will be borne by the supplier only. Hence, care should be taken in all respects before opening of Letter of Credit.
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.

Yours faithfully,

Prof. V. Jagadeesh Kumar
Dean Academic Courses

System Crosstalk	
Input to Output	-90 dB (Ref = +4 dBu, 20 Hz – 20kHz)
Adjacent Channels	-87 dB (Ref = +4 dBu, 20 Hz – 20kHz)
Digital Audio and Control	
ADC Dynamic Range	115 dB (A-wtd, 48 kHz)
DAC Dynamic Range	115 dB (A wtd, 48 kHz)
USB Recording Port	USB 2.0, Type B
Bluetooth™ Input	4.1, stereo
AES/EBU Output	XLR Male
Network Control Port	RJ 45
AVB Audio Network Port	Locking XLR Ethernet
Internal Processing	32bit, floating point
DSP	Quad core FLEX DSP
A/D/A Bit Depth	24
Reference Level for 0 dBFS	+18 dBu
Total System Latency	1.9 ms
Jitter	<20ps RMS (20Hz – 20kHz)
Jitter Attenuation	60 dB (1 ns in, 1ps out)
Power	
Input Voltage Range	90 to 230 VAC (±10%)
Make	PreSonus, Yamaha, Behringer

Item Description: Active Two-Way Speaker

Quantity: 2 Numbers

Item Specifications:

Acoustical specifications	
Frequency Response	45 Hz - 20000 Hz
Max SPL @ 1m	130 dB
Horizontal coverage angle	90°
Vertical coverage angle	60°
Transducers	
Compression Driver:	1 x 1.0", 1.75" v.c
Woofer	15", 2.5" v.c
Input/Output section	
Input signal	bal/unbal
Input connectors	Combo XLR/Jack
Output connectors	XLR Input
sensitivity	-2 dBu/+4 dBu
Processor section	
Crossover Frequencies	1650 Hz
Protections	Thermal, RMS
Controls	Volume, EQ Shape, Mic/Line
Power section	
Total Power	1200 W Peak, 600 W RMS
High frequencies	400 W Peak, 200 W RMS
Low frequencies	800 W Peak, 400 W RMS
Connections	VDE
Make	RCF, BOSE, JBL, QSC

cc 2nd