



**Venkatesh Balasubramanian, Ph.D.**  
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Department of Engineering Design  
Indian Institute of Technology Madras  
Chennai – 600 036, India.

Ref.No. MGT1213017IITMTTNA/2015/002

Date:24/2/2015  
Due Date:10/3/2015

Dear Sir/Madam,

1. Quotations are invited in duplicate for various items shown below/overleaf/enclosed list.
2. The quotations are to be in two parts- one **Technical Offer** and one **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 the bigger envelope duly sealed and super scribed with reference number and due date and must be addresses 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 on or before the due date stipulated above.
4. Quotation should be valid for 60 days from the due date and period of delivery be indicated.
5. Local firms quote for the free delivery to this institute. If quoted for Ex-Godown delivery charges be 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 leviable 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 leviable should take into consideration that we are entitled to have concessional sales tax applicable to Non-Governmental Education 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 carriage paid and insured.
9. Goods shall not be supplied without an official supply order.
10. Every short 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 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:- 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.

Sincerely,

Venkatesh Balasubramanian, Ph.D.  
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IIT Madras  
Chennai – 600 036

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Item required: EMG system for acquisition and processing

Specifications:

Hardware requirements:

1. Completely wireless 16 channels for continuous and simultaneous recording
2. System should be upgradable to higher number of channels in future seamlessly
3. Wireless transmission for atleast or more than 40 metres
4. System should be capable of full input and output trigger
5. Atleast 5 hours of operation in full transmission mode on all 16 channel of data collection
6. Multi-function design embedding triaxial accelerometry
7. 16-bit resolution with a sampling rate of 2000 Hz
8. Selectable g-range accelerometers
9. Should be able to integrate with auxiliary sensors (Load cell adapter, footswitch, goniometer)

Software requirements:

1. Real-time visualisation and quality check of acquired signal
2. Should be Integrating with all motion capture systems
3. High speed online data processing and offline processing
4. Import ASCII, Video files and Pressure measurement files
5. Export ASCII Files, Binary files, Matlab etc.
6. Timing, Co-activation and Symmetry analysis

Usability:

1. Easy replacement of individual electrodes if damaged.
2. Certified and approved for use as medical device by CE

Additional Requirements:

1. Vendors should provide continuous technical support and maintenance of equipment.
2. Vendors should take the responsibility for completely integrating ,installing and testing the hardware , downloading and installing software, toolkit as part of the system acceptance after delivery of the system at IIT Madras.
3. Vendors have to provide warranty for a minimum of one year. Approximate cost of annual system support / maintenance contract once the warranty period is over has to be for period covering 5 years from the date of purchase. Payment for the AMC will be made only at the end of warranty period on the 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 experience with the supplied machine. Experience of the end users will also be used as a criterion for the selection of the bids that meet technical requirement.
5. Vendors must provide detailed documentation for the equipment.
6. Vendors may be called to visit and give presentation/documentation on the equipment after opening the technical bid. They need to provide the approximate date for this presentation in the bid. The time 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 this equipment.
8. All the expenses for installation, training and post sales technical support will be borne by the vendor.

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