

INVITATION TO BID	LSU	BID DUE DATE AND TIME		
BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL & MECHANICAL COLLEGE		06/28/2016	11:00 AM	CT

SOLICITATION 000014138 VENDOR # VENDOR NAME AND ADDRESS <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	RETURN BID TO LSU LOUISIANA STATE UNIV. PROCUREMENT OFFICE 213 THOMAS BOYD HALL Baton Rouge LA 70803 BUYER Chassity J Queen BUYER PHONE (225)578-8651 BUYER EMAIL cqueen@lsu.edu ISSUE DATE 06/14/2016
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TITLE: ELECTRONIC MEDIA EQUIPMENT

To Be Completed By Bidder

1. _____ "No Bid" (sign and return this page only).
 2. _____ My Company does not wish to receive future solicitations for this commodity code.
 3. Specify your Delivery: To be made within _____ days after receipt of order.
 4. Specify your Payment Terms: _____.
- Prompt payment cash discounts for less than 30 days and less than 1% will be accepted, but will not be considered in determining awards. On indefinite quantity term contracts, cash discounts will be accepted and taken, but will not be considered in determining awards.

General Instructions to Bidders

1. Sealed bids for furnishing the items and/or services specified are hereby solicited, and will be received by the issuing LSU Campus/Department at the "Return Bid To" address stated above, until the specified due date and time.
2. Bids must be signed by a person authorized to bind the vendor. In accordance with LAC 34: XIII.517, the person signing the bid must be: (1) any corporate officer listed on the most current annual report on file with the secretary of state, or the signature on the bid is that of any member of a partnership or partnership in commendam listed in the most current partnership records on file with the secretary of state; or (2) an authorized representative of the corporation, partnership, or other legal entity and the bid is accompanied by a corporate resolution, certification as to the corporate principal, or other documents indicating authority which are acceptable to the public entity; or (3) the entity has filed in the appropriate records of the secretary of state in which the public entity is located, an affidavit, resolution, or other acknowledged or authentic document indicating the names of all parties authorized to submit bids for public contracts.
3. Read the entire solicitation, including all terms, conditions and specifications.
4. All bid information and prices must be typed or written in ink. Any corrections, erasures or other forms of alteration to unit price are to be initialed by the bidder.
5. Bid prices shall include all delivery charges paid by the vendor, F.O.B. LSU Destination, unless otherwise provided in the solicitation. Any invoiced delivery charges not quoted and itemized on the LSU purchase order are subject to rejection and non-payment.
6. Payment is to be made within 30 days after receipt of properly executed invoice, or delivery and acceptance, whichever is later.
7. By signing this solicitation, the bidder certifies compliance with all general instructions to bidders, terms, conditions and specifications; and further certifies that this bid is made without collusion or fraud.

BIDDER (Name of Firm)	MAILING ADDRESS
AUTHORIZED SIGNATURE	CITY, STATE ZIP
PRINTED NAME	PHONE #
TITLE	FAX #
E-MAIL	FEDERAL TAX ID #

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These standard terms and conditions shall apply to all LSU solicitations, unless otherwise specifically amended and provided for in the special terms and conditions, specifications, or other solicitation documents. In the event of conflict between the General Instructions to Bidders or Standard Terms & Conditions and the Special Terms & Conditions, the Special Terms & Conditions shall govern.

Bids submitted are subject to provisions of the laws of the State of Louisiana, including but not limited to: the University Pilot Procurement Code (LAC 34:XIII. Chapters 3-25) and the terms, conditions, and specifications stated in this solicitation.

1. Bid Delivery and Receipt

To be considered, sealed bids must be received and time-stamped at the "Return Bid To" address no later than the due date and time specified herein. Sealed bids cannot be accepted by telegraph, fax, or e-mail. Price alterations and addenda to bids may be submitted by telegraph or fax, and will be considered provided bidder's sealed bid, price alterations and addenda have been received in the purchasing office prior to bid opening time. Late bids cannot be accepted per L.A.C. 34.I.517, and shall be returned unopened.

2. Bid Forms

Bids are to be submitted on and in accordance with the LSU solicitation forms provided, and must be signed by an authorized agent of the vendor. Bids submitted on other forms or in other price formats may be considered informal and may be rejected in part or in its entirety. Bids submitted in pencil and/or bids containing no original signature indicating the bidder's intent to be bound will not be accepted.

3. Interpretation of Solicitation/Bidder Inquiries

If bidder is in doubt as to the meaning of any part or requirement of this solicitation, bidder may submit a written request for interpretation to the Buyer-of-Record at the address and/or fax number shown above. Written inquiries must be received in the Procurement Office no later than five (5) calendar days prior to the opening of bids, and shall be clearly cross-referenced to the relevant solicitation/specification in question.

No decisions or actions shall be executed by any bidder as a result of oral discussions with any LSU employee or consultant. Any interpretation of the documents will be made by formal addendum only, issued by the Procurement Office, and mailed or delivered to all bidders known to have received the solicitation. LSU shall not be responsible for any other interpretations or assumptions made by bidder.

4. Bid Opening

Bidders may attend the public bid opening of sealed bids and proposals. No information or opinions concerning the ultimate contract award will be given at bid opening or during the evaluation process. Written bid tabulations will not be furnished. Bids may be examined within 72 hours after bid opening. Information pertaining to completed files may be secured by visiting the Procurement Office during normal working hours.

5. Special Accommodations

Any "qualified individual with a disability" as defined by the Americans with Disabilities Act, who has submitted a bid and desires to attend the public bid opening, must notify the Procurement Office in writing not later than seven days prior to the bid opening date of their need for special accommodations. If the request cannot be reasonably provided, the individual will be informed prior to the bid opening.

6. Standards of Quality

Any product or service bid shall conform to all applicable federal, state and local laws and regulations, and the specifications contained in the solicitation. Any manufacturer's name, trade name, brand name, or catalog number used in the specification is for the purpose of describing the standard of quality, performance, and characteristics desired; and is not intended to limit or restrict competition. Bidder must specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact product specified in the solicitation.

7. New Products/Warranty/Patents

All products bid for purchase must be new, never previously used, of the manufacturer's current model and/or packaging, and of best quality as measured by acceptable trade standards. No remanufactured, demonstrator, used or irregular products will be considered for purchase unless otherwise specified.

The manufacturer's standard published warranty and provisions shall apply, unless more stringent warranties are otherwise required by LSU and specified in the solicitation. In such cases, the bidder and/or manufacturer shall honor the specified warranty requirements, and bid prices shall include any premium costs of such coverage.

Bidder guarantees that the products proposed and furnished will not infringe upon any valid patent or trademark; and shall, at its own expense, defend any and all actions or suits charging such infringement, and shall save LSU harmless.

8. Descriptive Information

Bidders proposing an equivalent brand or model are to submit with the bid descriptive information (such as literature, technical data, illustrations, etc) sufficient for LSU to evaluate quality, suitability, and compliance with the specifications. Failure to

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submit descriptive information may cause bid to be rejected. Any changes made by bidder to a manufacturer's published specifications shall be verifiable by the manufacturer. If items bid do not fully comply with specifications, bidder must state in what respect items deviate. Bidder's failure to note exceptions in its bid will not relieve the bidder from supplying the actual products requested.

9. Bids/Prices/F.O.B. Point

- The bid price for each item is to be quoted on a "net" basis and F.O.B. LSU Destination, i.e. title passing upon receipt and inclusive of all delivery charges, any item discounts, etc.
- Bids other than F.O.B. LSU Destination may be rejected.
- Bids indicating estimated freight charges may be rejected.
- Bids requiring deposits, payment in advance, or C.O.D. terms may be rejected.
- Bidders who do not quote "net" item prices and who separately quote an overall "lump sum" freight cost or discount for all items shall be considered as submitting an "all-or-none" bid for evaluation and award purposes; and risk rejection if award is made on an item basis.
- Prices shall be firm for acceptance for a minimum of 30 days, unless otherwise specified. Bids conditioned with shorter acceptance periods may be rejected.
- Prices are to be quoted in the unit/packaging specified (e.g. each, 12/box, etc), or may be rejected.
- In the event of extension errors, the unit price bid shall prevail.

10. Taxes

Vendor is responsible for including all applicable taxes in the bid price. LSU is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly assessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc.

11. Terms and Conditions

This solicitation contains all terms and conditions with respect to the purchase of the goods and/or services specified herein. Submittal of any contrary terms and conditions may cause your bid to be rejected. By signing and submitting a bid, vendor agrees that contrary terms and conditions which may be included in its bid are nullified; and agrees that this contract shall be construed in accordance with this solicitation and governed by the laws of the State of Louisiana.

12. Vendor Forms/LSU Signature Authority

The terms and conditions of the LSU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any vendor contract, form, etc.

The University's chief procurement officer, or authorized designee, is delegated sole authority to execute/sign any vendor contracts, forms, etc, on behalf of LSU. Departments are expressly prohibited from signing any vendor forms.

Any such vendor contracts/forms bearing unauthorized signatures shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom. Vendors who present any such forms to department users for signature without regard to this strict LSU policy may face contract cancellation, suspension, and/or debarment.

13. Awards

Award will be made to the lowest responsible and responsive bidder. LSU reserves the right: (1) to award items separately, grouped, or on an all-or-none basis, as deemed in its best interest; (2) to reject any or all bids and/or items; and (3) to waive any informalities.

All solicitation specifications, terms and conditions shall be made part of any subsequent award as if fully reproduced and included therein, unless specifically amended in the formal contract.

14. Acceptance of Bid

Only the issuance of an official LSU purchase order/contract, a Notification of Award letter, or a Notification of Intent to Award letter shall constitute the University's acceptance of a bid. LSU shall not be responsible in any way to a vendor for goods delivered or services rendered without an official purchase order/contract.

15. Applicable Law

All contracts shall be construed in accordance with and governed by the laws of the State of Louisiana.

16. Awarded Products/Unauthorized Substitutions

Only those awarded brands and numbers stated in the LSU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Procurement Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at vendor's expense, and non-payment.

17. Testing/Rejected Goods

Vendor warrants that the products furnished will be in full conformity with the specification, drawing or sample, and agrees that this warranty shall survive delivery, acceptance, and use. Any defect in any product may cause its rejection. LSU reserves the right to test products for conformance to specifications both prior to and after any award. Vendor shall bear the cost of testing

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if product is found to be non-compliant. All rejected goods will be held at vendor's risk and expense, and subject to vendor's prompt disposition. Unless otherwise arranged, rejected goods will be returned to the vendor freight collect.

18. Delivery

Vendor is responsible for making timely delivery in accordance with its quoted delivery terms. Vendor shall promptly notify the LSU Department and/or Procurement Office of any unforeseen delays beyond its control. In such cases, LSU reserves the right to cancel the order and to make alternative arrangements to meet its needs.

19. Default of Vendor

Failure to deliver within the time specified in the bid/award will constitute a default and may be cause for contract cancellation. Where the University has determined the vendor to be in default, LSU reserves the right to purchase any or all goods or services covered by the contract on the open market and to surcharge the vendor with costs in excess of the contract price. Until such assessed surcharges have been paid, no subsequent bids from the defaulting vendor will be considered for award.

20. Vendor Invoices

Invoices shall reference the LSU purchase/release order number, vendor's packing list/delivery ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order, show the amount of any prompt payment discount, and submitted on the vendor's own invoice form. Invoices submitted by the vendor's supplier are not acceptable.

21. Delinquent Payment Penalties

Delinquent payment penalties are mandated and governed by Louisiana R.S. 39:1695. Vendor penalties to the contrary shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.

22. Assignment of Contract/Contract Proceeds

Vendor shall not assign, sublet or transfer its contractual responsibilities, or payment proceeds thereof, to another party without the prior written consent and approval of the Procurement Office. Unauthorized assignments of contract or assignments of contract proceeds shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom.

23. Contract Cancellation

LSU has the right to cancel any contract for cause, in accordance with purchasing rules and regulations, including but not limited to: (1) failure to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentation by the vendor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the University; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; (6) any other breach of contract.

LSU has the right to cancel any contract for convenience at any time by giving thirty (30) days written notice to the vendor. In such cases, the vendor shall be entitled to payment for compliant deliverables in progress.

24. Prohibited Contractual Arrangements

Per Louisiana R.S. 42:1113.A, no public servant, or member of such a public servant's immediate family, or legal entity in which he has a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions, and provisions.

25. Equal Employment Opportunity Compliance

By submitting and signing this bid, vendor agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972; federal Executive Order 11246; federal Rehabilitation Act of 1973, as amended; the Vietnam Era Veteran's Readjustment Assistance Act of 1974; Title IX of the Education Amendments of 1972; the Age Act of 1975; the Americans with Disabilities Act of 1990. Vendor agrees not to discriminate in its employment practices, and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, age, national origin, veteran status, political affiliation, handicap, disability, or other non-merit factor. Any act of discrimination committed by vendor, or failure to comply with these statutory obligations when applicable, shall be grounds for termination of any contract entered into as a result of this solicitation.

26. Mutual Indemnification

Each party hereto agrees to indemnify, defend, and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities, and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence.

27. Certification of No Suspension or Debarment

By signing and submitting this bid, bidder certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.epls.gov.

PRICE SHEET

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
0001	<p>UNLESS SPECIFIED ELSEWHERE, SHIP ALL ITEMS TO: LSU ATHLETICS Electronic Media North Stadium Drive Tiger Stadium Equip. Room Baton Rouge, LA 70803</p> <p>ALL-OR-NONE AWARD: It is the intent of the University to award all items on an all-or-none basis to the overall lowest responsive and responsible bidder.</p> <p>Commodity Code: 880-11 Digital Intercom System, or equivalent per attached specifications. Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____</p>	1.00	EA	\$ _____	\$ _____
0002	<p>Commodity Code: 208-00 Configuration Software, or equivalent per attached specifications. Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____</p>	1.00	EA	\$ _____	\$ _____

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
0003	Commodity Code: 880-11 Interface Card, or equivalent per attached specifications. Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1.00	EA	\$ _____	\$ _____
0004	Commodity Code: 880-11 2 CH Telephone Hybrid Module, or equivalent per attached specifications. Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1.00	EA	\$ _____	\$ _____
0005	Commodity Code: 880-11 IP Card, or equivalent per attached specifications. Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1.00	EA	\$ _____	\$ _____
0006	Commodity Code: 880-11 Standalones fiber intercom extender for 2-wire, or equivalent per attached specifications.	6.00	EA	\$ _____	\$ _____

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ITEM No.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
0007	Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____ Commodity Code: 880-11 AC Adapter for Base Station, or equivalent per attached specifications. Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	6.00	EA	\$ _____	\$ _____
0008	Commodity Code: 880-11 Warranty, Minimum 2-year warranty on all items. Headsets and microphones do not need to be included in the warranty.	2.00	YR	\$ _____	\$ _____
0009	Commodity Code: 880-11 Design/Installation/Commissioning Services, per attached specifications.	1.00	EA	\$ _____	\$ _____

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- 01 A preference, if applicable, may be allowed for products produced, manufactured, assembled, grown or harvested in Louisiana. Do you claim this preference? Yes ____ No ____ . Note: Preferences shall not apply to service contracts. Is your Louisiana business workforce composed of a minimum of fifty percent Louisiana residents? Yes ____ No ____ . Specify Item Number and location within Louisiana where the product is/was produced, manufactured, assembled, grown or harvested:
_____ Note: This preference is not applicable for services.
- 02 LSU is a member of the National Association of Educational Procurement (NAEP) and the E & I Cooperative Purchasing Service.
- 03 Bid prices are to be quoted FOB LSU/DESTINATION and inclusive of any and all applicable shipping and handling charges.

Bid for CLEARCOM INTERCOM & Upgrade.

LSU is seeking bids to furnish, install, commission and train on an Intercom replacement and UPGRADE for a CLEARCOM DIGITAL system.

General Requirements:

- All wires and cables shall have labels that follow the existing wire label model, size color, font and placement for standardization purposes. This is to give technicians ability to trace wires easily which all have the same scheme.
- A full set of "as built" engineering flow drawings no later than 30 days after installation is completed.
- The successful vender must be authorized Clearcom Partner and Systems Integrator for the U.S.A. and State of Louisiana, re: warranty assistance reasons and Manufacturer requirements they require for their U.S. Reseller partners.
- Successful Vender must have installed at least 3 like and three successful Installations. LSU may request those to be sent upon request.
- Specified items fully integrate with exiting systems in place at Control rm. A/B PMAC, Alex Box, Tiger Stadium and Softball.

1. Digital Intercom System

- Model Clear-Com ECLIPSE-HX-MEDIAN-32P; or equivalent
- Quantity 1
- Features
 - 6RU Card Frame with passive back-plane, 7 interface and 8 interface module slots.
 - Up to 448 internal ports
 - Dual-redundant CPU-HX fitted
 - Dual-redundant power supplies fitted
 - Expandable to become a multi-frame system with redundant non-blocking fiber
 - Intelligent trucking between systems over telecom lines (T1, E1), Analog lines, Ethernet/IP or MADI
 - Seamless integration with FreeSpeak/CellCom Integra and Concert (forms a Hybrid Network)
 - Compatible with V-Series and I-Series panels
- Matrix Capabilities
 - Maximum Expansion Cards: 7
 - Ports per MVX Port Card: 16
 - Maximum MVX Port Cards: 7
 - Maximum CPU Cards: 2 (included)

- Maximum Fiber Expansion Cards: 2
 - Maximum E-Que or IVC-32 Expansion Cards: 4 (in total)
 - Maximum Power Supply Units: 2 (included)
 - Maximum RJ-45 Ports per Matrix:: 112
 - Maximum Timeslots: 512
- Mechanical
 - Height: 10.6 inches (267 mm or 6 RU)
 - Width: 19 inches (482 mm)
 - Depth: 16 inches (410 mm)
 - Front Card Depth: 300 mm
 - Weight: 20 to 35 kg
- Environmental
 - Operating Temperature: 0° C to +40° C
 - Storage Temperature: -55° C to +70° C
 - Humidity, Maximum: 90% non-condensing
- Matrix Performance
 - Sample Rate: 48 kHz
 - Resolution: 24 bit
 - Frequency Response: @ 48 kHz sampling: 30 Hz – 22 kHz ± 3 dBu
 - Crosstalk (adjacent channel): <-70 dBu
 - Nominal Level: 0 dBu
 - Matrix headroom: +18 dBu
 - Distortion: <0.05 %, @ 0 dBu, 300 Hz to 10 kHz; <0.1 %, @ 0 dBu, 100 Hz to 20 kHz
 - Off Noise: <-70 dBu (20 Hz - 22kHz)
 - On Noise: <-65 dBu (20 Hz - 22 kHz)
 - Key Response, Intra-System: <40 ms for audio route
 - Linked Systems: <60 ms for audio between matrice
- Minimum PC Requirements
 - Processor: 1 GHz
 - Memory: 1 GB RAM
 - Hard Disk: 1 GB minimum 32 bit, 2 GB minimum 64 bit
 - Input Devices: CD-ROM Drive
 - Display Resolution: SVGA
 - User Entry: Keyboard, Mouse
 - Ports: 2 serial ports and/or network IEEE 802.3
- Ethernet Cable
 - Network: IEEE 802.3 Ethernet Card
 - Operating Systems: Microsoft Windows Server 2003 SP2 (32 bit and 64 bit).
Microsoft Windows Server 2003 R2 (32 bit and 64 bit)
Microsoft Windows Server 2008 SP2 (32 bit and 64 bit)

Microsoft Windows Server 2008 R2 (64 bit)

*NOTE: Only 64 bit is supported as Windows Server R2
is not available for 32 bit.

Microsoft Windows XP SP3 (32 bit and 64 bit)

Microsoft Windows Vista SP2 (32 bit and 64 bit)

Microsoft Windows 7 (32 bit and 64 bit)

2. Configuration Software

- Model Clear-Com EXH 8.0; or Equivalent
- Quantity 1
- Specifications
 - Programming software DVD v7.6 with manuals
 - License includes use of EHX client software on multiple PC's on a single Eclipse HX networked matrix system

3. Interface Card

- Model Clear-Com MVX-A16-HX; or Equivalent
- Quantity 1
- Specification
 - Height: 6 RU
 - Depth: 300 mm
 - Audio Interface: 16, bi-directional
 - Input Format: Balanced
 - Output Format: Balanced
 - Ground Isolation: None; expected at User Panel/Station
- Analog Port Card Outputs
 - Level: 0 dBu nominal
 - Impedance: 100 Ohms balanced
 - Frequency Response: 30 Hz–22 kHz \pm 3 dB
 - Distortion: <0.05 %, @ 0 dBu, 300 Hz to 10 kHz; <0.1 %, @ 0 dBu, 100 Hz to 20 kHz
- Analog Port Card Inputs
 - Level: 0 dBv nominal
 - Impedance: 600 Ohms balanced
 - Frequency Response: 30 Hz–22 kHz \pm 3 dB
 - Distortion: <0.05 %, @ 0 dBu, 300 Hz to 10 kHz; <0.1 %, @ 0 dBu, 100 Hz to 20 kHz

4. 2 CH Telephone Hybrid Module

- Model Clear-Com TEL-14; or equivalent
- Quantity 1
- Specifications
 - Frequency Response: 300 Hz - 3.4 kHz

- Send Gain Control Range: +/-12 dB
 - Receive Gain Control Range: +/-12 dB
 - Ring Detect Sensitivity: Operates with most international telephone ring signal standards.
 - Auto-Mode Levels: -12 dBv on intercom line for -9 dBm on telephone line; -27 dBm on telephone line for -12 dBv on intercom line.
- TELEPHONE DISCONNECT
 - Dial Tone: 350 Hz + 440 Hz, continuous
 - Busy Tone: 480 Hz + 620 Hz, 0.5 sec on / 0.5 sec off
 - Reorder Tone: 480 Hz + 620 Hz, 0.25 sec on / 0.25 sec off
 - Loop Current Interruption: >5 ms
 - DC Isolation: >10M Ohms between each telephone line and the IMF interface frame.
- POWER REQUIREMENTS
 - Supplied by the PSU-101 power supply
 - Voltage Required: Between +/-8 and +/-12 Volts
 - DC unregulated
 - Current Required: +370 mA /-130 mA
- CONNECTORS (VIA IMF FRAME)
 - To Matrix Frame: (2) RJ-45
 - DB-9M Connector:
 - (2) telephone line connections
 - (2) for relay contacts
 - Relay Contacts: Type "A1", "Dry", normally open when TEL-14 is on-hook
- SIZE & WEIGHT
 - Size: 5.0625"H x 1.375"W x 9.16"D (129 x 35 x 233 mm)
 - Weight: 0.78 lbs (0.32 Kg)

5. IP Card

- Model Clear-Com IVC-32; or equivalent
- Quantity 1
- Features
 - Fits perfectly into Clear-Com's Eclipse Digital Matrix Systems (Eclipse-Omega and Eclipse-Median)
 - 6 Rack-Unit (RU)
 - Seamlessly enables IP-based V-Series control panels or Concert soft-panel users to connect directly to the Eclipse Matrices
 - Up to four IVC-32 cards can be slotted in a single Eclipse frame
 - Up to 128 ports of IP connections providing full duplex voice audio bandwidth
 - Uses 128Kbs network data bandwidth per panel connection.
- Specifications
 - 6RU matrix card

- Maximum cards per frame: 4
- 1 Ethernet port supporting 32 port per IVC-32 card
- IVC-32 can support up to 32 audio streams from any combination of IP enable V-series panels and Concert clients connected via one or multiple Concert servers
- LAN : 100BASE-T Full Duplex (Auto-negotiation not supported)
- G.722 CODEC 16kHz sample rate (@64kbps)
- Audio Passband 100Hz - 7kHz
- Cat 5 connectivity
- Network compatibility: LAN/WAN/Internet
- IP addressing: DHCP
- Latency: LAN connected V-Series Panels (with Eavesdropping logic off) 40-120ms
- Minimum Network bandwidth required per duplex connection: 128kb/s
- Ports required : 1
- Protocols used. (TCP/IP, UDP)
- Quality of Service: TOS bits are set

6. Standalone fiber intercom extender for 2-wire

- Model Grass Valley FXC-S201-S13; or equivalent
- Quantity 6
- Features
 - Transports two intercom channels via one or two strand of single-mode fiber up to 30 km (18.6 mi.)
 - Infrastructure fiber
 - TAC Cable
 - Compatible with most partyline and digital matrix intercom systems
 - 2-wire partyline
 - RTS 2-wire
 - Matrix
 - RTS 2-wire Adam/Cronus/Zeus
 - Advanced automatic digital nulling
 - Internal power supply can provide power for up to 10 Clear-Com or RTS 2-wire belt packs
 - Advanced hybrid interfaces two 2-wire intercom lines to two 4-wire lines
 - Uses a single or dual common ST connector on the standalone version, and a single or dual LC connection on the Densité frame version
 - Immune to RF interference and ground loops
 - Front panel status monitoring
 - Available in Mini-Mussel enclosure for harsh environments and as Densité card for permanent frame installations
 - Acts as a standalone (non-fiber) dual-channel digital hybrid interface

- 2 Intercom Channels

I. 2 Wire (TW/PL)

- Interface:
 - Clear-Com PL: XLR3M x 2
 - RTS TW: XLR3M x 1
 - Max level: 2 Vp-p, at 1 kHz (equiv. to 18 dBu in 4 W)*
 - Dyn. range: >85 dB, ref. 2 Vp-p at 1 kHz **
 - Freq. response: 1/-3 dB, 70 Hz to 22 kHz, ref. 2 Vp-p*
 - THD+N: <1 % at 2 Vp-p*
 - I/O impedance (100 Hz to 20 kHz):
 - Termination engaged (internal power): $220\Omega \pm 10\%$
 - Termination dis-engaged (external power): $\geq 10\text{ k}\Omega$
 - Nulling: Automatic DSP
 - 4-WIRE (4W) PORTS

II. 4 Wire Ports

- Interface:
 - Clear-Com MatrixPlus/Eclipse: RJ45 x 2
 - RTS Adam/Cronus/Zeus: RJ11 x 2
 - Maximum level (I/O, unity gain): +18 dBu
 - Dynamic range: >85 dB, ref. 18 dBu
 - Frequency response: 1/-3 dB, 35 Hz - 22 kHz, ref. 0 dBu
 - THD+N: <0.05 % at 17 dBu at 1 kHz
 - Input impedance: $10\text{ k}\Omega$ balanced
 - Output impedance: 30Ω balanced
- Data:
 - Clear-Com: RS-422
 - RTS: RS-485
 - Crosstalk: >85 dB
 - ELECTRO-OPTICAL
- Operating wavelength, standard:
 - 1310 nm for dual fiber
 - 1310/1550 nm for WDM single fiber
 - Nominal optical loss budget values:
 - TX laser output power (typical): -5 dBm
 - RX sensitivity (typical): -28 dBm
 - Optical budget: 23 dBm optical loss
 - Fiber compatibility: Single-mode
- Optical connector:
 - Standalone version: ST

- Densité frame version: LC
- III. MECHANICAL/ENVIRONMENTAL
 - Dimensions (W x H x D):
 - Mini-Mussel without feet: 101.6 x 50.8 x 254 mm (4 x 2 x 10 in.)
 - Densité card without rear module: 216.23 x 122.68 mm (8.513 x 4.83 in.)
 - Weight:
 - Mini-Mussel: 1.27 kg (2.8 lbs.)
 - Densité card: 0.18 kg (0.4 lbs.)
 - Power consumption:
 - 2W with local power: 3W at 10-18 VDC
 - Powered from 2W system: 6W at 10-18 VDC
 - 4W system: 3W at 10-18 VDC
 - Temperature range: 25 to 55° C (77 to 131° F)
 - i. Humidity range: 0 to 95% RH, non-condensing

7. AC Adapter for Base Station

- Model Telecast Fiber Systems ADAP-AC-04
- Quantity 6
- Features
 - Economical, low profile packaging
 - 4 to 16 channels per 1RU
 - Wide range of digital formats
 - 19.4 Mbps to 3 Gbps transport
 - Compatible with digital TV standards SMPTE 292M, 259M and 424M
 - Handles DVB/ASI signals
 - Immune to pathological data errors
 - Equalizes coax up to 3 Gbps
 - Wide optical budget
 - Low system jitter
 - Low power consumption
 - High reliability, durable design
 - CWDM multiplexing options
 - Compatible with other Telecast Series HD/SD-SDI transport systems

8. Warranty

- Minimum 2-year warranty on all items
- Headsets and microphones do not need to be included in the warranty

9. Design/Installation/Commissioning Services

- Any fees associated with getting the system installed and running
- Fees can be labor, time, materials, etc.
- FOB Shipping Point (LSU)

**BOARD OF SUPERVISORS
LOUISIANA STATE UNIVERSITY AND
AGRICULTURAL & MECHANICAL COLLEGE
Purchasing Office, 213 Thomas Boyd Hall
Baton Rouge, LA 70803-3001**

INSURANCE REQUIREMENTS

WORKMEN'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE: The Contractor shall, before commencing any work to be conducted under this contract, procure Workmen's Compensation and Employer's Liability insurance with a limit of liability as required by the Labor Code of the State of Louisiana with an insurance company authorized to write such policies of insurance in the State of Louisiana. It shall be the further responsibility of the Contractor to require that all subcontractors have in full force and effect, a policy of Workmen's Compensation and Employer's Liability insurance before proceeding with any of the work required under this contract. The Employer's Liability limit shall be \$1,000,000 when work is over water and involves maritime exposure.

COMMERCIAL GENERAL LIABILITY INSURANCE: Commercial General Liability Insurance with a combined single limit of \$1,000,000 per occurrence for bodily injury and property damage. This insurance shall include the following coverage:

1. Premises - Operations;
2. Broad Form Contractual Liability;
3. Products and Completed Operations;
4. Use of Contractors and Subcontractors;
5. Personal Injury;
6. Broad Form Property Damage;
7. Explosion, Collapse and Under ground (XCU) Coverage.

BUSINESS AUTOMOBILE LIABILITY INSURANCE: Business Automobile Liability Insurance with a combined single limit of \$1,000,000 per occurrence for bodily injury and property damage, unless otherwise indicated. This insurance shall include for bodily injury and property damage the following coverages:

1. Owned automobiles;
2. Hired automobiles;
3. Non-owned automobiles.

If the vendor/contractor does not own an automobile and an automobile is utilized in the execution of the contract, then only hired and non-owned coverage is acceptable. If an automobile is not utilized for the execution of the contract, then automobile coverage is not required.

Board of Supervisors of Louisiana State University and Agricultural & Mechanical College shall be named as additional insured on all liability policies. A Thirty (30) day prior notice of cancellation must be given to the University for all required coverages. Insurance must be from a company with an A.M. Best's rating of no less than A-:VI who is authorized to do business in the State of Louisiana. The A.M. Best's rating requirement may be waived for Worker's Compensation only.

The successful contractor is to provide the owner with a certificate of insurance prior to commencement of work.