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M/S -----

Date 02.09.2013

Sealed Quotation is invited for the following items

Item Name	Qty.	Rooms	Key Features	Technical Specification
SUBWOOFER	2	Music room	<ul style="list-style-type: none"> • 12-inch High-Excursion LF Transducer • Trapezoidal Shape that allows for flexible placement • Secure Reinforced Cabinet Construction with Mounting Hardware included • Extremely High Power Handling • High Sensitivity • Dual Voice Coil Design that accommodates both Stereo Channels • Crossed-Over Pass-Thru Connections for up to 4 Satellite Speakers w12" Subwoofer 	<p>Freq. Response1 (-10 dB): 40 Hz - 180 Hz Power Handling: 175 W Cont. Program Per Coil Sensitivity1 (SPL 1W/1m): 106 dB Impedance: 8 Ohms Max Calculated SPL: 125 dB LF Transducer: 12" (300 mm) High-Excursion Dual Voice-Coil Terminals: Spring-Loaded Enclosure Material: MDF, Steel Fastener Reinforced Included Accessories: Mounting Bracket and Hardware Dim (H x W x D): 16.25" x 23.0" x 12.0" (412 mm x 584 mm x 305 mm) Net Weight: 40.0 lbs. (18.1 kg) Shipping Weight: 48.0 lbs. (20.0 kg)</p>
Speaker	2	Music Room	<ul style="list-style-type: none"> • Integrated Heavy-Duty Strong-Arm Mounting Bracket Included • Indoor/Outdoor Design - Meets IEC 529, IP44 & MIL810 Environmental Specs • ASCTM Automatic Saturation Compensation • 8" Weatherized Cone High-Output LF Transducer • DH2005 1" Exit True Compression Driver • 90° x 50° or 100° x 100° Coverage Patterns • Rotatable Horn Design • 200W Continuous, 800W Peak Power Handling • High Sensitivity, 123 dB Maximum SPL 	<p>Freq. Response1 (-3 dB): 60 Hz - 20 kHz Freq. Range1 (-10 dB): 48 Hz - 20 kHz Rec. Hipass Frequency: 40 Hz Axial Sensitivity1 (90°): 94 dB(1W/1m) (100°):92 dB(1W/1m) Max Calculated SPL (90°):123dB (100°):121dB Horizontal Coverage: 90° or 100° Vertical Coverage: 50° or 100° Enclosure Rotation: +/-35° Enclosure Sweep: +/-45° Rated System Power: 200W Cont., 400W Prog., 800W Peak LF Transducer: EV8L, 8 in (203mm) Driver HF Transducer: DH2005, 1 in. (25.4mm) Exit Compression Driver Crossover Frequency: 1.7 kHz Nominal Impedance: 8 Ohms Minimum Impedance: 6 Ohms "T" Version Wattage Taps: 70V - 6, 12.5, 25, 50, 100, 8 Ohm bypass 100V - 12.5, 25, 50, 100, 8 Ohm bypass Connectors: 4-Pin Phoenix Connector Enclosure Material: High Impact Polymer Suspension: Integrated QuickSAMTM Heavy-Duty Strong-Arm Mounting Bracket Grille: Polyester Powder Coated, 18GA Galvanized Steel Dim (H x W x D): 451mm x 282mm x 263mm (17.75" x 11.12" x 10.35") Net Weight: 8.4 kg (18.5 lbs) without Transformer 10.4 kg (23.0 lbs) with Transformer</p>
Vocal Mics	4	Music Room		<p>Freq. Response, Close: 35 Hz - 22,000 Hz Freq. Response, Far: 70 Hz - 22,000 Hz Polar Pattern: Super cardioid Sensitivity, Open Circuit Voltage @ 1 kHz: 3.1 mV/pascal Dynamic Range: 144 dB Polarity: Pin 2 positive, referenced to pin 3 with positive pressure on diaphragm Impedance: 350 ohms balanced (low-z) Microphone Connector: 3-pin, XLR-type</p>

			<p>Finish: Non-reflecting black Materials: Memraflex grille screen Warm Grip™ handle Accessories Included: Stand Adapter (Black) Soft Zippered "Gig" Bag Net Weight: 9.2 oz (260 g) Shipping Weight: 18.9 oz (535 g)</p>
Overhead Mics	4	Music Room	<p>Element Type: Self-Biased Condenser Frequency Response: 50 Hz - 16,000 Hz Polar Pattern: Cardioid Sensitivity, Open Circuit Voltage, 1 kHz: 6.0 mV/Pa (-45 dBV) Polarity: Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 Rated Impedance: 200 ohms Max SPL (1% THD @1 kHz): 132 dB SPL Self-Noise: 25 dB SPL, A-weighted Dynamic Range: 107 dB Signal-to-Noise Ratio: 69 dB (@94 dB SPL) Power Requirements: Phantom Supply Requirement: 11 to 52 VDC, 4 mA Microphone Connector: 3-pin, XLR-type Finish: Textured black satin body with Memraflex™ grille Dimensions: Length = 6.40" (162.5 mm) Width = 1.14" (29.0 mm) Shank = 0.83" (21.1 mm) Accessories Included: Stand adapter with Euro-thread insert, Soft zippered gig bag Net Weight: 6.3 oz (176 g) Shipping Weight: 17.1 oz (485 g) 11 to 52 VDC, 4 mA Microphone Connector: 3-pin, XLR-type Finish: Textured black satin body with Memraflex™ grille Dimensions: Length = 6.40" (162.5 mm) Width = 1.14" (29.0 mm) Shank = 0.83" (21.1 mm) Accessories Included: Stand adapter with Euro-thread insert, Soft zippered gig bag Net Weight: 6.3 oz (176 g) Shipping Weight: 17.1 oz (485 g)</p>
Amplifier	2	Music Room	<p>Load Impedance 2 Ω 4 Ω 8 Ω 2 Ω 4 Ω 8 Ω 2 Ω 4 Ω 8 Ω 2 Ω 4 Ω 8 Ω Maximum Midband Output Power THD = 1%, 1 kHz, Dual Channel 650 W 450 W 270 W / 1250 W 900 W 550 W Rated Output Power THD < 0.1%, 20 Hz...20 kHz - 400 W 200 W +/- 800 W 400 W Maximum Single Channel Output Power Dynamic-Headroom, IHF-A 1150 W 660 W 350 W/ 2450 W 1400 W 700 W Maximum Single Channel Output Power Continuous, 1 kHz 850 W 540 W 310 W 1700 W 1100 W 630 W Maximum Bridged Output Power THD = 1%, 1 kHz - 1300 W 900 W - / - 2800 W 1800 W - Maximum RMS Voltage Swing THD = 1%, 1 kHz 55.3 V 65.1 V 78.8 V 90.6 V Power Bandwidth THD = 1%, ref. 1 kHz, half power @ 4 Ω < 10 Hz...30 kHz Voltage Gain, ref. 1 kHz 32.0 dB Input Sensitivity rated power @ 8 Ω, 1 kHz +2.2 dBu (1.0 Vrms) +3.1 dBu (1.11 Vrms) +5.1 dBu (1.39 Vrms) +6.6 dBu (1.66 Vrms)</p>

			<p>THD at rated output power MBW = 80 kHz, 1 kHz < 0.03% IMD-SMPTE, 60 Hz, 7 kHz < 0.1% DIM30, 3.15 kHz, 15 kHz < 0.05% Maximum Input Level +21 dBu (8.69 Vrms) Crosstalk ref. 1 kHz, at rated output power < -80 dB Frequency Response, ref. 1 kHz 10 Hz...40 kHz (±1 dB) Input Impedance, active balanced 20 kΩ Damping Factor, 1 kHz > 300 Slew Rate 25 V/μs 26 V/μs 27 V/μs 30 V/μs Signal to Noise Ratio Amplifier A-weighted > 106 dB > 107 dB > 109 dB > 110 dB Output Noise, A-weighted < -71 dBu Output Stage Topology Class AB Class H Power Requirements 240 V, 230 V, 120 V or 100 V; 50 Hz...60 Hz Power Consumption: 1/8 maximum output power @ 4 Ω 550 W 700 W 700 W 850 W Mains Fuse 240 V / 230 V: T10AH; Protection Audio limiters, High temperature, DC, HF, Back-EMF, Peak current limiters, Inrush current limiters, Turnon delay Cooling Front-to-rear, 3-stage-fans Ambient Temperatur Limits +5 °C...+40 °C (40 °F...105 °F) Safety Class I Dimensions (W x H x D), mm 483 x 88.1 x 421.5 Weight 12.6 kg (27.8 lbs) / 16.3 kg (35.9 lbs) Signal Processing LPN, switchable Optional Rear-rackmount D113223 (RMK-15)</p>
Professional Cardiod mics	2	Music Room	<ul style="list-style-type: none"> • Dynamic mic with studio detail and clarity • Cardioid pattern with excellent off-axis rejection • Unique double swivel-mounted design for ideal positioning • ideal for voice and instruments — live or studio • streamline design
Audio Mixer	1	Music Room	<p>Insert point (mono channels)</p> <ul style="list-style-type: none"> • 3-band EQ with swept Mid band on mono inputs • 3-band EQ on stereo inputs • PFL switch • Mix and group routing • Signal Present LED • Peak LED • Second Stereo FXI return input • 60mm fader • Headphone and Control Room outputs with level control • Rack or furniture-mountable • Rack-mount ears supplied with 12-channel model • Integral universal power supply • 8+2, 12+2 and 20+2 channel input frame-sizes • Built-in 24 bit Lexicon® digital effects processor • 32 FX settings • Tap Tempo and FX setting store function • 1 FX send on each channel • 2 configurable Aux busses • 2 Stereo Inputs • 2 Group busses • Stereo Mix Output • 2-track record output • 2-track replay input with level control • Globally switched +48V Phantom Power, Mic Preamps, 100Hz HPF

Notes:

1. **All quotation must reach undersign persons by 05.09.2013, before 5:00 PM in sealed envelopes.**
2. Quotation must be valid till 30 days.
3. Delivery period will be 4 weeks, including appropriate and complete installation at the desired site at IIT Kanpur, New SAC.
4. Extension of delivery period is not allowed.
5. Warranty should be properly mentioned in your quotation, minimum of **three years**.
6. See the attached technical detail of the product. The specified products should be quoted.
7. Participating firms should submit proof of documentation on authorized vendor for the product and eligible to provide the warranty. These documents will be cross verified.
8. Any firms with poor track record of installation services and lapses on warranty claims within IIT Kanpur will be rejected out rightly.
9. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.
10. Payment term
 - a) For foreign currency through LC.
 - b) For Rupees payment 90%on delivery & 10% after satisfactory using /working

Kindly send the quotation (in duplicate) in sealed envelope latest by 05.09.2013 to the following address.
Room No. 102, New SAC Staff Office

Students' Gymkhana

IIT Kanpur-208016