

**Scope of work**

| <b>Name of Work:</b> Comprehensive repairing and overhauling of the audio system located in the C.V. Raman and S.N. Bose hall of IACS. |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|--------|
| Sl no.                                                                                                                                 | Item description                                                                                                                                                                                                                                                                                                                                                                                                                   | Quantity | Unit  | Rate | Amount |
| 1                                                                                                                                      | Supply, installation, testing and commissioning of wireless Lavalier Mic set. The microphone should have Clip-on condenser and compact body pack transmitter for hands-free operation with diversity receiver. Automatic frequency management and synchronization. fully tunable over wide range of UHF frequency. Omni directional pick-up pattern. Frequency response 50 to 16,000 Hz (-3dB). Sensitivity <3 µV at 52 dB(A) rms. | 2        | nos.  |      |        |
|                                                                                                                                        | Make: Audio-technica/Sennheiser/AKG                                                                                                                                                                                                                                                                                                                                                                                                |          |       |      |        |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
| 2 (a)                                                                                                                                  | Supply, installation, testing and commissioning of gooseneck microphone with cardioid directivity microphone capsule, pre-polarized condenser, having length 450mm and frequency response 50Hz-20KHz                                                                                                                                                                                                                               | 1        | no.   |      |        |
|                                                                                                                                        | Make: Audio-technica/Sennheiser/AKG                                                                                                                                                                                                                                                                                                                                                                                                |          |       |      |        |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
| 2(b)                                                                                                                                   | Supply, installation, testing and commissioning of gooseneck microphone stand with switch Mic in : XLR-3F/Mic out: XLR-3M with phantom powering P24-P48. High level output voltage >2.4V. Low level output voltage: 0.4V                                                                                                                                                                                                           | 1        | No.   |      |        |
|                                                                                                                                        | Make: Audio-technica/Sennheiser/AKG                                                                                                                                                                                                                                                                                                                                                                                                |          |       |      |        |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
| 3                                                                                                                                      | Laying of 2 core 2.5 Sq.mm pre-terminated speaker cable with twisted lock connectors at both ends                                                                                                                                                                                                                                                                                                                                  | 100      | Meter |      |        |
|                                                                                                                                        | Make: Krystal/polycab/Belden                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |      |        |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
| 4                                                                                                                                      | Supply, installation, testing and commissioning of TRS-TRS terminated audio patch cables of 10 meter length. 3-pin, 2-core, annealed tinned copper, 110Ω, AES-EBU complaint, 24AWG-LAPP sheilded.                                                                                                                                                                                                                                  | 6        | Nos.  |      |        |
|                                                                                                                                        | Make: Krystal/Neutrik/Belden                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |      |        |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
| 5                                                                                                                                      | Supply, installation, testing and commissioning of XLR(M)- XLR(F) terminated audio patch cables of 3 meter length. 3-pin, 2-core, annealed tinned copper 110Ω, AES-EBU complaint, 24AWG-LAPP sheilded.                                                                                                                                                                                                                             | 3        | Nos.  |      |        |
|                                                                                                                                        | Make: Krystal/Neutrik/Belden                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |      |        |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
| 6                                                                                                                                      | Supply, installation, testing and commissioning of XLR(M)- XLR(F) terminated audio patch cables of 1 meter length. 3-pin, 2-core, ATC 110Ω, AES-EBU complaint, 24AWG-LAPP.                                                                                                                                                                                                                                                         | 4        | Nos.  |      |        |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |        |
| 7                                                                                                                                      | Overhauling of wireless hand held microphone Shure make SM-58 model with transmitter and receiver replacement kit                                                                                                                                                                                                                                                                                                                  | 2        | Nos.  |      |        |
|                                                                                                                                        | Make: DPA/AGK/Shure                                                                                                                                                                                                                                                                                                                                                                                                                |          |       |      |        |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|--|--|
| 8                                                                                                                                                                               | Overhauling of wireless hand held microphone Shure make PG-58 model with transmitter and receiver replacement kit                                                                                                                                                                           | 1   | Nos.         |  |  |
|                                                                                                                                                                                 | Make: DPA/AKG/Shure                                                                                                                                                                                                                                                                         |     |              |  |  |
| 9                                                                                                                                                                               | Supply, installation, testing and commissioning of multipurpose Direct Injection box with 2 independent unbalanced TRS line input into 2 balanced XLR outputs. Input level: +12/+32V/+52 Dbu. Phantom power: 18V-48V DC, Distortion <0.014% (1KHz , 0 dBu in). connection impedance > 600Ω. | 6   | Nos.         |  |  |
|                                                                                                                                                                                 | Make: Radial/BSS/Behringer                                                                                                                                                                                                                                                                  |     |              |  |  |
| 10                                                                                                                                                                              | Reconing of 6 inch dia Sonodyne make ceiling speakers with pre-assembled recone kit                                                                                                                                                                                                         | 12  | Nos.         |  |  |
|                                                                                                                                                                                 | Make: Iwai/Jupiter/Ocean                                                                                                                                                                                                                                                                    |     |              |  |  |
| 11                                                                                                                                                                              | Supply, installation, testing and commissioning of HDMI pre terminated cable of 15 meter length with male to male 19 pin high speed HDMI cable supports, 2.0V, 4K, 60Hz to 120MHz, 2160p,1080p.                                                                                             | 1   | Nos.         |  |  |
|                                                                                                                                                                                 | Make: Bluerigger/MX/RS                                                                                                                                                                                                                                                                      |     |              |  |  |
| 12                                                                                                                                                                              | Laying of 2 core 1.5 Sq.mm pre-terminated speaker cable.                                                                                                                                                                                                                                    | 150 | Meter        |  |  |
|                                                                                                                                                                                 | Make: Krystal/polycab/Belden                                                                                                                                                                                                                                                                |     |              |  |  |
| 13                                                                                                                                                                              | Overhaul of projector screen with synchronous motor replacement kit                                                                                                                                                                                                                         | 1   | No.          |  |  |
|                                                                                                                                                                                 | Make: Liberty/inlight/Big-View                                                                                                                                                                                                                                                              |     |              |  |  |
|                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                             |     | <b>Total</b> |  |  |
| <b>Rupees.....only</b>                                                                                                                                                          |                                                                                                                                                                                                                                                                                             |     |              |  |  |
| <b>NOTE:The quoted rate shall be inclusive of all taxes &amp; duties, levies, cess etc i/c GST also. Nothing extra will be paid to the Contractor except the accepted rate.</b> |                                                                                                                                                                                                                                                                                             |     |              |  |  |
|                                                                                                                                                                                 | GST No:                                                                                                                                                                                                                                                                                     |     |              |  |  |
|                                                                                                                                                                                 | SAC code:                                                                                                                                                                                                                                                                                   |     |              |  |  |
|                                                                                                                                                                                 | <a href="#">CGST@.....9....% considered in the above BOQ</a>                                                                                                                                                                                                                                |     |              |  |  |
|                                                                                                                                                                                 | <a href="#">SGST@.....9....%Considered in the above BOQ</a>                                                                                                                                                                                                                                 |     |              |  |  |
|                                                                                                                                                                                 | <b>NOTE-1:</b> All supplied hardwares must be compqatible with our existing system.                                                                                                                                                                                                         |     |              |  |  |
|                                                                                                                                                                                 | <b>NOTE-2:</b> Bidders are requested to visit our site before quoting their rates                                                                                                                                                                                                           |     |              |  |  |