

TOP scores

for

a sound

approach

INSTALLATION — AN OUTLINE

When the Kamla Nehru College authorities decided to renovate their auditorium, they did what most people would normally do – they called for tenders from various vendors for supplying them with a good sound system. Bose India was also invited to make a bid for the project.

Kamla Nehru College is an all girls' graduation college, affiliated to the Delhi University in India's capital city. The management was renovating its large auditorium that has a seating capacity of 700 people. The college wanted to use the facility for its own cultural activities, as well as inter college programmes. They also envisioned a premium venue that could be hired out to private parties for conducting their programmes.

The customary tender given by the architects contained a bill of quantities for which vendors were asked to quote. Nothing unusual about that. However, Bose™ has its own methodology for devising sound solutions, much to the delight of the college management.

The unique sound system philosophy employed by Bose is based on a simple fact of acoustics. A sound system does not, and cannot perform independently of its surroundings. The sound waves, produced by the system, interact and interplay with all the building geometry and materials; this, in turn, affects the quality of the sound that we hear.

In a bid to provide the very best sound system for any venue, Bose has endeavoured to take the guesswork out of sound systems installation. Uncompromised sound system design must take into account specific details of the operating environment. This is accomplished through the use of the Bose proprietary technology, including the Bose Auditor™ Audio Demonstration System and the Bose Modeler™ software. These tools allow designers and customers to listen to the sound reproduction of a proposed system in a given space, before its physical installation. This means, there will be no surprises when the sound system installation is complete.

Bose India Sales Engineer, Vikrant Sabharwal, was able to demonstrate this philosophy of total system design as part of the bid. Bose India's personalized approach to the job and the Auditor™ demonstration fully convinced the principal, Dr. Surinder J. Sharma, that only Bose could provide them with the best solution.

The sound system in the Kamla Nehru College auditorium would be used for speeches, for playing recorded music and for reinforcing live performances.



Kamla Nehru College Auditorium

To meet these requirements Bose proposed a comprehensive solution comprising two Bose 802™ professional loudspeakers for high quality reinforcement of speech and music. Active system equalisation was provided by a Bose 802C system controller, along with deep rich bass from a Bose 502B Acoustimass™ bass module. A high performance amplifier and a stereo graphic equaliser was integrated with the Bose speaker systems to ensure the right tonal balance throughout the auditorium.

A part of the complete system requirement, Bose provided the college with a selection of microphones, including cordless, handheld and podium mikes with stands. A multi CD changer and tape deck was set up to play recorded music. Bose also provided a 26-channel mixer with as many as 16 microphone input capabilities, to allow easy integration of the microphones and different audio sources.

Three Bose FreeSpace™ Model 25 loudspeakers were fitted to function as front fills in the auditorium, while a fourth acts as a monitor speaker in the control room. The Bose FreeSpace™ System controller would help to actively equalize the speakers, along with a power amplifier and a volume control unit.

Bose also offered the authorities a performance guarantee, promising a full refund if the Bose solution did not meet their stated design parameters.

After listening to the complete sound system, Dr. Surinder J. Sharma knew that Bose had delivered on their guarantee. Bose's capability to demonstrate, in advance, how a future system would sound was a key step in producing the best sound solution for Kamla Nehru College's new auditorium.

BOSE™

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