

Special Service and Features



CSIR-SERC Transfers Technology to a member of Laghu Udyog Bharati (LUB)

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The “100 days, 100 technologies” program by CSIR (Council of Scientific & Industrial Research) aims to transfer advanced, indigenous technologies to MSMEs to enhance their competitiveness.

As part of this initiative, CSIR-SERC (Structural Engineering Research Centre) a premier national laboratory under CSIR, has successfully transferred pioneering technology “High Velocity Multi-Hit Resistant Movable Protective Booth/Shack for Security Personnel” to M/s Sehgal Doors, a member of Laghu Udyog Bharati (LUB). Sehgal Doors, known for their highquality fireproof and security doors will now benefit from this advanced technology.

The technology was transferred to M/s Sehgal Doors, New Delhi at CSIR-SERC, Chennai on 7th February 2025. The technology transfer agreement of the Security Booth was signed by Dr. N. Anandavalli, Director, CSIR-SERC, with Mr. Neeraj Sehgal from M/s. Sehgal Doors, New Delhi. The inventor of the technology Dr. Amar Prakash, Senior Principal Scientist, Dr S.Parivallal, Chief Scientist and Advisor(M), Dr K.Sathish Kumar, Chief Scientist and Head, BKMD, Shri V.Ramesh Kumar, Principal Scientist, Smt Chitra Sankaran, Principal Technical Officer and Smt R.Soniya, Senior Technical Officer were present during this event.

Security Booth/Shack

CSIR-SERC has developed a modular security booth/shack for military and security personnel, constructed using steel fiber-reinforced cementitious composite panels mounted within a steel frame. The booth is designed to provide NIJ level-III protection, capable of withstanding multiple hits from 7.62 AP projectiles in accordance with NIJ standards.

Key Features of the Booth/Shack:

- Multi-impact resistance (NIJ level-3) with enhanced ricochet resistance
- Pre-engineered, precast, and fully indigenous modular design, ensuring easy assembly and disassembly within an hour without the need for heavy machinery

- Simple to repair, reuse, and replace, offering cost-effectiveness and long-term durability
- High mobility and easy repositioning, combined with an attractive aesthetic appearance.

The developed security booth is useful for protecting personnel deployed for guarding various important and critical facilities across the country.

Following are few potential stakeholders for the developed product:

- CISF
- CAPF
- CRPF
- BSF
- Defence agencies, Embassies, Airport authorities so on.



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