Structural Engineering Research Centre (SERC)

CSIR - Structural Engineering Research Centre (SERC), established in **1965** under **CSIR**, is India's premier institute for structural engineering research. Based in **Chennai**, it develops safe, durable, and disaster - resilient infrastructure, including earthquake, cyclone, and blast - resistant structures. Equipped with world - class facilities such as the **Wind Engineering Laboratory, Seismic Testing Centre,** and **Tower Testing Station,** SERC advances structural safety, infrastructure development, and disaster resilience through cutting - edge research and testing.

Objectives

SERC conducts application - oriented research in structural design, rehabilitation of ageing infrastructure, advanced construction materials, and disaster - resistant engineering. It also provides consultancy, structural proof - checking, and technical support for major national infrastructure projects.

Significance in Indian Research Space

As India's leading structural engineering research institute, SERC supports government departments, defence organisations, industries, and public agencies in developing safe and reliable infrastructure. Its expertise has contributed to bridges, metro systems, power plants, offshore structures, industrial facilities, and other critical national projects.

Collaborations

SERC collaborates with **Central and State Governments, DRDO,** industries, universities, and international research organisations. These partnerships promote technology development, joint research, training programmes, and knowledge sharing in structural engineering.



Achievements

SERC has made significant contributions to earthquake engineering, blast-resistant structures, wind engineering, and structural health monitoring. It operates one of India's finest tower testing facilities, publishes a structural engineering journal since 1973, and has developed several patented technologies and licensed innovations for industry.

Future Vision

SERC is advancing **smart infrastructure** using AI, sensors, and digital monitoring while promoting sustainable construction materials and disaster-resilient technologies. Through continuous innovation, it is building safer, smarter, and more sustainable infrastructure for India.

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