

High-strength steels (HSSs) are advanced structural steels with nominal yield strengths of 460 MPa or greater and possessing satisfactory ductility for either conventional plastic design or performance-based design, toughness and weldability for practical use in civil engineering. Appropriate use of HSS in structural engineering will offer numerous benefits in terms of mechanical performance, economy and sustainability. The Indian Steel ecosystem is in the stage of shifting to more effective use of HSS in construction. However, the uptake has been surprisingly slow due to lack of knowledge and design guidelines particular to HSS. This webinar introduces the HSS and its properties, opportunities for HSS in construction, challenges and the economy associated with the design using HSS. The goal of the webinar is to create awareness among students, academicians, researchers, steel industries, construction & structural engineers, etc., towards the opportunities and challenges for use of high-strength steel in construction.

Speaker

Dr. P. Prabha
Principal Scientist
CSIR-Structural Engineering Research
Centre (CSIR-SERC), Chennai
www.serc.res.in

Email: prabha@serc.res.in



Topics to be covered...

- Introduction to HSS
- Opportunities for HSS in construction
- Challenges with design using HSS in construction

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email-shrdd@serc.res.in Phone: 044-2254 4765/62