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Structural Engineering Group

Agro Industrial Alkali Activated Composite for Prefabricated Building Elements & 3D Volumetric Construction

- Period:** 35 Months (April 2022 - March 2025)
- Project Investigator:** Ajay Chourasia
- Type of Project:** Government Funded
- Sponsored by:** Ministry of Housing and Urban Affairs, Government of India, New Delhi-110011
- Cost:** Rs. 952.17 Lakh
- Objectives:**
- Characterization of materials of industrial and agro waste alkali activated concrete for 3D printing and 3D volumetric structural element
 - Evaluation of rheological, physico-mechanical and durability parameters
 - Development of 3D concrete printed buildings and modular volumetric units
 - Evaluation of seismic performance on full scale 3DCP/3DMV buildings under displacement controlled lateral cyclic loads
 - Development of mix design and structural design guidelines for 3DCP and 3DMV buildings