Development of Prototype Buckling Restraint Braces (BRB) for Seismic Response Control of Multistoried Buildings

Funding Agency: Arunachal Pradesh PWD Project Investigator: Prof. S.K. Deb, Department of Civil Engineering



- **Theme:** High performance and cost-effective seismic design/ retrofitting of structures
- Objective: Development of prototype inspectable Hybrid BRB for seismic response control of multistoried buildings
- **Deliverables: A special type of structural fuse to ensure:**
 - Efficient seismic response control of structures
 - Stable hysteretic behaviour to achieve enhanced damping
- Highlights: Inspectable and detachable HyBRB allows visual monitoring of the damage;
 - Restrained buckling about both weak and strong axes to achieve enhanced energy dissipation;

Noteworthy aspects: HyBRB ensures: •

High damping in low to high axial strain levels;

• Significant reduction of residual structural deformations









