

MUD BLOCK MACHINE FOR HIGH ALTITUDE REGIONS

Technology in Brief

Mud block machine for high altitude regions addresses the challenges of construction in remote, hilly, and rugged terrains by providing sustainable and cost-effective solution for making building products. The machine employs a mechanized production system that produces 2 blocks per batch and up to 800-1000 blocks per shift with two man power requirement for operation with minimal human effort. The block machine is solely mechanized and operates without electricity. The machine weighs approximately 80-100 kgs and can be further split into sub-assemblies for ease of transport and assembly. Moreover, it requires minimal maintenance and rugged construction parts, making the machine ideal for construction in high-altitude regions e.g., Leh and Ladakh. The developed technology addresses the limitations of low-quality, manually cast mud blocks by offering superior quality, mechanized and higher production rate and large turnover even in challenging environments of high-altitude regions.

Salient Features/Advantages

- Lightweight and portable
- No electricity requirement, low maintenance
- Ease of transport and installation
- Quick assembly and disassembly on site
- Production of high-quality mud blocks



End Product(s)	Developed prototype machine and conducted successful working trials
License/Commercialization	NA
TRL	7
Environmental Impact	Environment friendly and User safety
Setup - Equipment required	General fabrication workshop facility