



## CSIR-CMERI's Innovative Electric Tiller

[Source: PIB](#)

In a move to empower small and marginal farmers, the [Council of Scientific and Industrial Research \(CSIR\)](#) and the **Department of Scientific and Industrial Research (DSIR)** have unveiled the **CSIR-Central Mechanical Engineering Research Institute's Electric Tiller**.

- The electric tiller is designed to cater to the needs of [small to marginal farmers](#) (land holdings of less than 2 hectares), who **constitute over 80% of India's farming community**.
- The tiller boasts enhanced **torque and field efficiency**, making it a highly capable and efficient agricultural tool.
  - It prioritises user comfort and environmental sustainability, with features like reduced hand-arm vibration, quiet operation, and zero exhaust emissions.
  - The electric tiller can potentially reduce **operational costs by up to 85%**, offering significant financial benefits to farmers.
- The tiller's user-friendly design supports battery pack swapping and multiple charging options, including alternating current (AC) and Solar direct current (DC) charging, ensuring versatility and convenience.
- [CSIR](#) was established in September 1942, **headquartered in New Delhi** and funded by the **Ministry of Science and Technology**.

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