



Our Technology Partner

Rural Technology Action Group (RuTAG), IIT Madras



Rural Technology Action Group (RuTAG), IIT Madras is an initiative of the Office of the Principal Scientific Adviser to the Government of India to enable development and dissemination of demand-driven Science & Technology interventions in rural areas by technical institutions. At present, RuTAGs are functioning in six other IITs (Guwahati, Kharagpur, Roorkee, Delhi, Mumbai and Kanpur) to cater to surrounding areas.

Functioning since 2004, RuTAG, IITM facilitates development of rural-centric feasible technical interventions as per identified demand by functioning as a catalyzing mechanism between organizations expressing the need for an intervention and academic/ R&D institutions with the required expertise. A dynamic and dedicated team at RuTAG facilitates technology need identification workshops, R&D projects, technology trials and feedback and workshops/ contests/ internships to engage students and faculty members from engineering, polytechnic and management institutions. Over the past decade, RuTAG, IITM has worked with various stakeholders in order to develop technical solutions for issues raised from rural areas in the sectors of livelihoods, assistive technologies, textiles, health and sanitation and energy.

| Livelihoods | Textiles | Assistive Technology | Health and Sanitation | Energy |
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| <ul style="list-style-type: none"> • Palm tree climber • Alternate additive for Bidriware • Mechanized coir ratt • Household mini oil expeller • Microwaveable pottery | <ul style="list-style-type: none"> • Dual drive charkha • Pedal loom • Pirm winding machine • Electronic jacquard handloom • Hank to cone winding machine | <ul style="list-style-type: none"> • Modular tricycle • Loom for visually challenged • Automatic potter's wheel • Pedestrian bridge over water canals | <ul style="list-style-type: none"> • Manual water filtration trike • Grey water treatment using constructed wetlands • Studies on sanitary napkin technologies | <ul style="list-style-type: none"> • Charcoal kiln • Biogas from food waste and non-edible oil cakes • Street lighting using solar LED lights |

List of completed projects

RuTAG, IITM also works with government agencies, corporates, incubators, alumni and other such sources to support dissemination of its developed technologies through modes of sponsored projects, corporate social responsibility, long-term projects and start-ups.

