

**Project Title:**

**Upgradation of conventional river ropeway existing in rural/hilly terrain over main rivers. SEED/TIME/006/2014**

<b>Name of Principal Investigator</b>	Er. Ganga Ram, STD
<b>Co-Principal Investigator</b>	Mr. Pradeep Kumar, STD
<b>Thrust Area</b>	Rural engineering and technology support services
<b>Project Area</b>	<b>Districts:</b> <b>Mandi</b> (Block-Sadar&Balh- Malori village)
<b>Total cost of Project</b>	Rs. 32,58,000/-
<b>Date of Start</b>	01 October 2016
<b>Date of Completion</b>	30 September 2020
<b>Achievements</b>	<p><b>To upgrade technologically conventional method of river ropeway with two different designs, making it easy to operate and less risky.</b></p> <p>√ 3 different RCC designs of piers been studied, and economical one has been constructed.</p> <p>√ A working model has been fabricated from IIT Mandi, installed on RCC piers.</p> <p>√ Field trial of prototype-I has been completed successfully after its installation on piers.</p> <p>√ CAD design of lightweight model of prototype-II re-designed.</p> <p><b>To develop and demonstrate viable river ropeway models and methodologies for S&amp;T based rural development with special emphasis on less connectivity for deprived sections of the society.</b></p> <p>√ 1 working model has been developed and tested. Prototype-I has already been developed and tested successfully.</p> <p>√ CAD model for lightweight prototype-II been re-designed.</p> <p><b>To build and promote institutionalized linkages with S&amp;T institution</b></p>

	<b>developmental agencies to replicate proven models.</b> ✓ Institutionalized linkage has been established with IIT Mandi.
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### **Project Goal**

To improve the conventional river ropeway crossing by innovation of technology to reduce people's drudgery, and to make the system safe and easy to be handled by women, children, and the elderly.

<b>Approved Objectives</b>	<b>Objectively verifiable indicators</b>
<b>To upgrade technologically conventional method of river ropeway with two different designs, making it easy to operate and less risky.</b>	Details of the upgraded designs
	Comparison of the new designs with the existing ones
	Details of the operational mechanism
	Risk evaluation mechanism
<b>To develop and demonstrate viable river ropeway models and methodologies for S&amp;T based rural development with special emphasis on less connectivity for deprived sections of the society.</b>	Development plan of the model
	List of sites/areas of technology demonstration
	List of targeted beneficiaries
<b>To build and promote institutionalized linkages with S&amp;T institution developmental agencies to replicate proven models.</b>	Institutional linkages (S&T institutions) established
	Details of model replicability
<b>To build and promote institutionalized linkages with financial institutions for replication/promotion of new models.</b>	Institutional linkages (financial institutions) established
<b>To develop and disseminate technical details and field manuals etc. documentation on above.</b>	No. of technical/field manuals produced and distributed
	No. of brochures published and distributed
	List of documentations
<b>To give training to various interested NGOs and individuals at our field stations thus enabling them to replicate the river ropeway technology.</b>	Details of trainings imparted
	Technology delivery
	List of individuals trained
	Details of the replicability of the model

Outreach and Adoption	Indicators
	Technology adoption
	Increase in family income
	Drudgery reduction
	List of ecological benefits