


ICAR- AICRP on FIM (Farm Implements and Machinery)

1	Name of the Scheme	AICRP on Farm Implements and Machinery
2	Name of PI	 <p>Dr. SUSHILENDRA</p>
3	Year of Start	19-06-1995
4	Year of Completion	Continuing
5	Location	Department of FMPE, College of Agricultural Engineering, Raichur
6	Contact Details	Principal Investigator AICRP on FIM, Department of Farm Machinery and Power Engineering, College of Agricultural Engineering, University of Agricultural Sciences, RAICHUR – 584101, Karnataka, India Phone No.: 08532-221480 Email: headfim@uasraichur.edu.in
7	Mandate	<ul style="list-style-type: none"> • To identify the mechanization gaps and future needs of improved farm equipment and machinery for different regions, crops and operations. • To conduct research and development, feasibility testing, front line demonstration and promote custom hiring of farm equipment and machinery.
8	Objectives	<ul style="list-style-type: none"> • To conduct feasibility testing of prototypes of proven designs of farm implements and machinery on farmer's fields, selected from different regions for adoption under local conditions. • To conduct frontline demonstration of new designs of farm implements and machinery selected from different regions on farmer's fields to test

		<p>their efficacy for adoption and popularization under local conditions.</p> <ul style="list-style-type: none"> To educate farmers on the significance of use of and maintenance of improved farm machines through various media including trainings and demonstrations. To establish linkages with manufacturers by involving them in popularizing and manufacturing of improved farm implements.
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9	Human Recourses Staff Sanctioned	Staff Sanctioned	No. of Posts	Name of incumbent	Filled position	Vacant Position
		Scientist	1	Dr. Sushilendra	1	-
		Technicians	2	Mr. Ravi Kumar H -	1	1
		Tractor driver cum mechanic	1	-	-	1
		Junior Clerk	1	Mr. Md. Nasir	1	
		Total	5		3	2

10	Technologies Released (Published in PoP)	Technology Developed	Year for inclusion in Package of Practices
		Tractor operated multi crop thresher	2008-09
		Tractor operated combine harvester	2010-11
		Harvesting and threshing mechanism in safflower	2010-11
		Paddy transplanter	2011-12
		Tractor operated laser leveler	2013-14
		Self-propelled power weeder	2013-14
		Self-propelled paddy weeder	2013-14
		Self-propelled reaper cum binder	2013-14
		Tractor operated rotary weeder	2013-14
		Tractor operated air sleeve boom sprayer	2014-15

		Tractor operated raised bed planter	2014-15
		Tractor operated ground nut digger	2014-15
		Tractor drawn ground nut digger cum elevator	2015-16
		Small tractor operated weeder for wide row crops	2016-17
		Small tractor operated weeder cum fertilizer applicator	2018-19
		Tractor operated planter cum herbicide applicator	2019-20
		Tractor drawn cotton planter	2019-20
		Small tractor operated weeder for narrow row crops	2019-20
11	Ongoing Technical Programme	S. No.	Title of the experiment
		Prototype Feasibility Testing	
		1	Tractor drawn planter cum herbicide applicator
		2	Tractor operated mobile shredder for cotton
		3	Package of machinery for small and marginal farmers with self-propelled power unit
		4	Tractor operated paddy chopper and shredder
		Front Line Demonstration	
		1	Tractor operated ginger harvester cum elevator
		2	Tractor operated Straw combine (PAU)
		3	Tractor operated DSR seed drill for sowing of paddy
		4	Small tractor operated weeder



Laser Leveller



Ground nut digger cum elevator



Paddy transplanter



Self propelled planter



Paddy transplanter



Tractor operator rotary weeder



Self propelled weeder



Self propelled reaper binder



Planter cum herbicide applicator



Small tractor operated weeder for narrow row crops



Ginger harvester cum elevator



Self propelled reaper binder



Tractor operated planter cum herbicide applicator



Small tractor operated weeder for wide row crops



Tractor operated cotton planter



Self propelled reaper binder



Tractor operated raised bed planter



Tractor operated air sleeve boom sprayer