

Faculty Profile

Personal Details

Name	Dr. Rahul Tarachand Ramteke	
Designation	Professor (CAS)	
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Academic Qualifications

Degree	Specialization	University	Year of Passing
B. Tech.	Agril. Engg.	PKV, Akola	July-1988
M.E. (Ag)	Renewable Energy Sources	Rajasthan Agril. Univ., Bikaner	June-1991
PhD (Agril. Engg.)	Renewable Energy Sources	Dr. PDKV, Akola	July 2018

Professional Experience

Stream	Years	Stream	Years
Teaching	31	Research	31
Extension	31	Administration	30

Area of Research/Interest

Renewable Energy Sources (Solar Energy/Bio Energy)

Research Guidance

Degree	No. of Student & Guided
M.Sc./M.Tech	05
Ph.D.	03

Research Accomplishments (Recent Ten Most Important Publications)

Sr.No	Title	Journal	ISSN/ISBN	NAAS Rating
01	Design and Development of Bullock drawn mobile solar operated water lifting system	International Journal of Current Microbiology & Applied Sciences Vol.12(12),	ISSN: 2319-7706,	5.38
02	Development and adoption of small farm mechanization for hilly area	International Journal of Statistics and Applied Mathematics SP-8(6) : 983-988	ISSN: 2456-1452.	5.12
03	Design development of tractor operated raised bed planter cum sprayer with covering device	International Journal of Statistics and Applied Mathematics SP-	ISSN: 2456-1452	5.12

		8(6) : 1337-1339		
04	Fabrication and experimental investigation of PCM capsules integrated in Solar cabinet Dryer	Annals of Forest Research,66(2): 496-508,	ISSN: 18448135, 20652445.	7.80
05	Mathematical Modeling of thin layer drying kinetics of shatavari (asparagus racemosus) in solar cabinet dryer integrated with phase change material	Annals of Forest Research,66(2):509-523,	ISSN: 18448135, 20652445	7.80
06	Design and development of tractor drawn inter-cultivator cum sprayer for Soybean and Cotton	International Journal of Current Microbiology & Applied Sciences Vol.10(02)	ISSN: 2319-7706	5.38
07	Application of solar Energy for operating animal drawn agro-processing unit: Papad making machine	The Pharma Innovation Journal 12(1) 835-839	ISSN(E) 2277-7695 ISSN (P) 2349-8242	5.23
08	Drying Kinetics of Aloe Vera (Aloe vera barbadensis miller) in Solar Cabinet Dryer	Frontiers in Crop Improvement, Volume 9 (Special Issue-VI) 2797-2804	ISSN : 2393-8234	4.67
09	Performance Evaluation of VNMKV Developed Power Weeder.	International Journal of Current Microbiology and Applied Sciences, Vol.9(07)	ISSN: 2319-7706	5.38
10	Development in solar powered agricultural sprayers : A Review	International Journal of Current Microbiology & Applied Sciences Vol.9(12)	ISSN: 2198-2210	5.38

Credentials:

Particulars	Numbers	Particulars	Numbers
Research Articles	41	Popular Articles	32
Books / Booklets	02	Book Chapters	02
Research/Technology Recommendations	16	Varieties Developed	00
Patents	00	Abstracts Published	37
Technical Publication	22		

Significant Achievements(Top Five)

Sr. No.	Patent/IP/Technologies/ Varieties/Machineries Developed / Methodologies/ Recommendations	Year
1.	Solar tunnel dryer for drying of Red Chilly	2011
2.	It is recommended to use 40 percent stonrdust as a fine aggregate for production of concrete (Grade M-15 & M-20) on farm. Feasibility of stone dust as a substitute for sand in construction	2013
3.	VNMKV developed solar photovoltaic power sprayer for spraying on crops.	2014
4.	VNMKV bullock drawn solar operated sprayer for spraying of weedicide/pesticide	2017
5.	VNMKV developed bullock drawn MPTC for planter cum solar operated sprayer for planting, seed covering fertilizer application, interculture operation and	2018

	spraying of insecticide or pesticide					
6.	PDKV solar cabinet dryer with phase changes material for drying of medicinal plants and vegetables.	2019				
7.	VNMKV developed solar operated bird/animal scarer cum light insect trap for plant protection by deterring the birds/ animals and for trapping the insect in different crops.	2020				
8.	Design and Development of Tractor drawn Inter- Cultivator Cum furrow opener and Sprayer with slim tyres	2021				
9.	Development of Mobile Solar Energy Cart	2021				
10.	Development of Single Bullock drawn Ridger	2021				
11.	Development of Bullock drawn Bed Maker	2021				
12.	Design and Development of Cutting Mechanism of Flail Mower	2021				
13.	Package of Bullock operated and Tractor Drawn Machinery for Soyabean	2022				
14.	Styrene-Butadiene rubber interventions (Chassis and Engine Foundation) with soft foam hand grips for handle for reduction in hand arm vibration	2022				
15.	Design of solar photo-voltaic system for agro processing unit and its performance evaluation.	2023				
16.	Development of bullock drawn solar operated small (4 nozzle) sprayer.	2023				
Externally Funded Projects: Implemented/Handled/Assisted						
Sr. No.	Title of the Project	Participation		Grants (Rs. Lakh)	Funding Agency	Duration
		PI	CO-PI			
1.	AICRP on E.R.A.S	Nadre R.G.	Ramteke R.T.	--	ICAR New Delhi	1996-1999
2.	Reducing drudgery of farm women through use of improved agricultural implement for dominant cropping system in Marathwada region.	S.N.Solanki	Ramteke R.T.	Rs. 19.04	ICAR New Delhi	2003-2005
3.	Agril. PV Solar Project at Manvat , Parbhani	Godavari Pawar	Ramteke R.T.	7900 Euro	GIZ, Germany	2023

Awards/Recognitions (Top Five)

1.
2.