Mahatma Phule Krishi Vidyapeeth, Rahuri

AICRP on Medicinal, Aromatic Plants & Beetelvine

1.	**Year of Start**	:	2009
2.	**Contact Details**	:	
	Postal Address	:	Officer- Incharge, AICRP on Medicinal, Aromatic, Ahmednagar-413 722
	Phone No.	:	9823364310
	Email	:	**rtgaikwad4064@gmail.com**
3.	**Objectives/Mandates**	:	• To develop appropriate package of paratices for MAP. • To develop organic nutritional level for MAP. • To identify new pest, to study its biology, to correlate its seasonal incidence with meteorological data, to find out its economical threshould level (ETL) and to find out suitable bioagent/ safe chemical molecules for its management of MAP. • To identify new disease and management of disease through bioagents or safe chemical molecules considering its residual effect.
4.	**Infrastructure**	:	
	Land	:	2.00 ha
	Irrigation facilities	:	Borewel
	Laboratories	:	One Laboratory
5.	**Human Resource**	:	
	Technical Staff	:	

SN	Designation	Discipline	Remarks
1	Associate Professor	Plant Pathology	Filled
2	Assistant Professor	Horticulture	Filled
3	Assistant Professor	Agril. Entomology	Filled

Non-Technical Staff :

SN	Designation	No of posts	Remarks
1	Typist-cum-cleck	01	Filled
	Mali	02	Filled
	Driver	01	Filled

6.	**Research Achievements**	:	
	Variety	:	01
	Recommendations	:	32
7.	**Ongoing Research**	:	

HORTICULTURE

PLANT GENETIC RESOURCES

1. Collection, characterization, evaluation and maintenance of Asparagus germplasm.
2. Collection, characterization, evaluation and maintenance of Betel vine germplasm
3. Collection, characterization, evaluation and maintenance of Davana germplasm

CROP IMPROVEMENT

1) MLT-AVT-II- Evaluation of promising lines of Basil for high yield and quality.
2) MLT-AVT-III- Evaluation of promising lines of Basil fo high yield and quality.
3) Evaluation of promising lines of Senna in MLT.
4) Evaluation of promising lines of Satavari in MLT.
5) MLT-AVT-II- Evaluation of promising lines of tulsi for high yield and quality.

CROP PRODUCTION

1. Effect of nutrient management on Tulsi (*Ocimum sanctum*).
2. Standardization of organic farming practices for betelvine.

New Experiments:

1. Standardization of time of planting and spacing in Davana (*Armesia palllens*)
2. Standardization of time of sowing and spacing in Asalio (*Lepidium sativum*)
3. Standardization of spacing and time of sowing for Basil (*Ocimum basilicum*).
4. Standardization of spacing and time of sowing for Tulsi (*Ocimum sanctum*).

CROP PROTECTION : Agricultural Entomology

1. Survey, collection, cataloguing and identification of entomofauna associated with allotted and other medicinal and aromatic plants.
2. Seasonal occurrence of economically important insects on medicinal and aromatic plants.
3. Natural enemies associated with economically important insects on Medicinal and Aromatic plants.
4. Damage intensity assessment of medicinal crops infested by the major pests to know the level of infestation of key pests.
5. Management of leaf eating caterpillar *Catopsilia pyranthe*by using different bio control agents on Sonamukhi *Cassia angustifolia*.
6. Efficacy of different bio pesticides against aphids on Dawana *Artemisia pallens*.
7. Efficacy of different bio pesticides against fruit borer on Satavari *Asparagus racemosus*.
8. Management of leaf eating caterpillar *Papilio demoleus* on Bawchi *Psoralea corylifolia* (Fabaceae) by biorational pesticides.
9. Management of mustard sawfly *Athalia lugens proxima* (Klug) on Haliv (Chandrasur) *Lepidium sativum*
10. Crop loss assessment of mustard sawfly on Haliv (*Lepidium sativum*)
11. Efficacy of different bio-pesticides against jassids on Dawana *Artemisia pallens*
12. Management of root-knot nematode *Meloidogyne javanica* on Bawchi *Psoralea corylifolia*

CROP PROTECTION : Plant Pathology

1. Studies on diseases of Medicinal and Aromatic Plants
2. Management of powdery mildew disease of Babchi (*Psoralea corylifolia*)
3. Integrated disease management of root and foliar diseases of Ashwagandha through organic modules
4. Integrated disease management of root and foliar diseases of Safed Musali through organic modules
5. Management of foliar disease of Asalio