

RAPPORTEURS REPORT ON

PRESENTATION OF RESEARCH RESULTS/EXTENSION ACTIVITIES OF 2022-23

Chairman	:	Dr. Narayana Mavarkar Dean, College of Horticulture Mudigere
Co-Chairman	:	Dr. Dhananjaya B. Senior Scientist & Head KVK, Brahmavar
Rapporteurs	:	Dr. Arati Yadawad : Assistant Professor (GPB) AHRS, Ullal (Zone-10) Dr. Devaraju Assistant Professor (VSC), CoH, Mudigere (Zone-9)

At the outset Chairmen welcomed all the scientists and requested the Heads of the different departments to present the research results and extension activities of 2022-23.

I. Forestry and Environmental Sciences

1. Dr. Devagiri presented Module I and II for wood and nano wood spp. He also presented infrastructure created under RKVY projects and results of the below experiments.
2. Assessment of government wastelands suitable for agro forestry and plantation.
3. Assessment of nutraceutical value of edible fruits species – Profiling of sugars, amino acids, lipid has been attempted.
4. Survey, documentation and establishment of community germplasm for wild edible fruits.
5. Standardization of propagation methods for wild edible fruits
Impact of *Lantana camera* on species diversity was allotted for M.Sc. students.

He also presented the results of AICRP Experiments listed below.

1. Development of Agro forestry techniques for performance of Bamboo plantations in 8 m x 8 m, pooled data of four years.
2. Collection and evaluation, utilization of bamboo species
3. Development of *Litscachneses* based Agro forestry for sustainable supply of figat. It is under expansion with Bamboo and other wood species. Growth and yield parameters have been recorded.
4. Development of sustainable harvesting techniques House observed that in some experiments the value of CD and SEM need to be verified.

II. Horticulture:

Dr. Shrinivas, Professor and University Head (Horticulture) presented the results of the below listed experiments.

1. Evaluation of arecanut varieties under hill zone of Karnataka: Sumangala has recorded highest wet yield followed by Tarikere local.
2. Evaluation of pickling varieties of Mango under experimentation at 11th year Appemidi and Adderijirige has recorded highest yield. CV is very high as observed in the experiment. It was suggested to relook into the results.
3. Evaluation of different varieties of Jackfruit for Malnad. Gumless Jack has recorded highest yield at 20th year of planting.
4. Crop improvement of China aster: Few hybrids have been developed and stability analysis of these hybrids is under process.
5. Improvements of tomato for higher yield and quality under hill zone: EC 15127 x E.C. 362941F₂ transgressive segregants been identified. P7 recorded highest yield. EC 521069 x EC 362941:F₂ transgressive segregants evaluation is under progress.
6. Performance of pickling mango types under hill zone: Only growth parameters have been recorded since no yield even up to 9th year of planting.
7. Evaluation of early cashew varieties under hill zone of Karnataka: Ullal 2 recorded highest yield:

Chairman suggested the fruit scientist to conduct trial on induction of flowering in pickling mango variety.

III. Agricultural Entomology:

Dr. S.U. Patil, Professor and University Head (Agricultural Entomology) presented the results of experiments

Dr. Hanumanthraya L: 4 different IPM modules against insect pests of Tomato were conducted for only one year under poly house condition and need to be continued for one more year. From one-year experimental results, Module 1 has recorded better results with higher yields among four experiments.

Mr. A.V. Swamy: one-year results were presented for two experiments

Results of AICRP-Rice trials conducted by Dr. Revanna Revannavar, one year data was presented.

Director of Research highlighted that our entries should be evaluated by the entomologist/pathologist to generate valuable data for further carry forward of the variety at central/National level.

Trial conducted by Ms. Nishmitha on evaluation of alternative insecticides for cashew tea mosquito bug was presented.

House suggested for continuation of the experiment for one more year.

IV. Agricultural Engineering:

Ongoing experiment results of Zone 9 and 10 were presented by Dr. Shankar M. Assistant professor, ZAHRS, Brahmavar

Results of the experiments conducted by Dr. V.R. Vinod., Associate Professor was presented.

1. Fabrication and development of simple device for pepper harvesting
2. Design and fabrication of manual de-husking machine for dry arecanut prototype was designed
3. Home Scale gray water treatment for recycling to gardens
4. Design of a new sickle for jack fruit peeling – design was prepared and modified to ease the peeling
5. Studies on greenhouse environment as influenced by the types of green house at Brahmavar condition of coastal zone: Variation of greenhouse parameters in winter was higher

Ongoing experiments conducted by Dr. Shankar M. at ZAHRS, Brahmavar were also presented

1. Design and development of coconut climbing machine: Climbing tree 32 per stroke length
2. Design and development of mechanized coconut dehusker
3. Re-design and development of Multipurpose power tiller with spatial reference to paddy
4. To design harvesting techniques of cashew by using harvesting bowl
5. Design and development of low-cost structure for stall feeding of goat/sheep

V. Soil Science:

Dr. Jayaprakash S.M presented the experimental results of one year data on Effect of nitrogen levels and nano fertilizers on growth and yield of paddy crop in coastal Karnataka

House felt that only one-year results are not convincing to arrive at some decision. Chairman suggested to modify the treatments by including four different treatments of nano urea and continue the same for one more year. Concerned Scientists agreed to conduct the trial as suggested.

Director of Research also suggested to estimate the chlorophyll parameters and its impact on yield.

Chairman suggested that nano zinc may also be considered.

VI. Zero Budget Natural Farming:

Dr. K.V. Sudhir Kamath, presented the results of ZBNF.

In rice-based cropping system: Dr. K.V. Sudhir Kamath expressed that ZBNF project has very encouraging results, off course there was 30% yield penalty. Project need to continue for at least 2-3 years to prove the results.

Director of Research suggested to test different varieties / germplasm under ZBNF.

EXTENSION ACTIVITIES OF KVK

KVK, Brahmavar:

Dr. Dhananjaya B.,: Senior scientist and Head, (KVK, Brahmavar) Presented the extension activities of KVK, staff position, district features, district profile, results of on-farm testings, field days and block level seminar *setc*

1. Capacity building training programme
2. On campus trainings and off campus trainings
3. Skill development training programme
4. Awareness programme
5. Bimonthly and tri monthly trainings
6. Krishi saki programme: 3 batches of 6 days each and
7. Visit of dignitaries

Director of Research suggested the Head, KVK, Brahmavar to include the results of farm trials to realize the results of our entries/ technologies.

KVK, Mudigere

Dr. Krishinamurthy, Senior scientist and Head, (KVK, Mudigere) Presented the extension activities of KVK, staff position, district features, district profile results of on-farm testings, field days and block level seminars *etc*

1. Kadiri Lepakshi was promoted followed by then G252
2. Bengal gram – varietal testing
3. FLD: 17
4. On-farm trials: 3
5. Two Farmer producing organizations are also actively working.

Dr. Shridhar suggested to workout percent increase in yield over existing and new varietal performance as feedback from farmers. Director of Extension suggested to include the information on how many farmers are reached by KVK, in the abstract to have idea on total number of beneficiary farmers.

Direct of Research: Suggested to transfer the new technologies in efficient way for the benefit of farmers

Extension Education Unit, Madikeri.

Dr. Kencha Reddy presented the activities on campus like, off campus, trainings and Jenu Krishisaptha – 7 days training on apiculture.*etc*

Chairman concluded the sessions with abstract that

1. Nine heads/subordinates presented the results
2. KVKs presented the activities
3. No concluded results in Agricultural Extension, Food Science and Nutrition, Genetics and plant breeding and plant pathology.