

TAMIL NADU AGRICULTURAL UNIVERSITY

Office of the Directorate of Research,
Tamil Nadu Agricultural University,
Coimbatore-03.

Date: 8.09.2019

PROCEEDINGS

A review meeting was conducted at Agricultural Research Station, Kovilpatti, on **29.8.2019** with the Professor & Head and staff members by the Director of Research to address some of the issues relating to the research and development activities.

Dr. E. Murugan, Professor & Head, ARS, Kovilpatti, briefly presented the on-going research activities of the station. **Dr. K.S. Subramanian**, Director of Research highlighted the current status of TNAU rankings in ICAR and NIRF and the importance of high impact factor publications (**NAAS > 6**) and patents that will directly reflect on the ranking. For the Research Stations, grantsmanship and writemanship workshops are scheduled to be organized to equip and motivate young scientists to get research grants from externally funded projects and publish papers in high impact factor journals besides patents.

1. GENERAL

- 1.1. The popular **varieties** released, advanced cultures, promising **technologies** and farm mechanization are to be demonstrated at the frontier avenue of the Station to exhibit the activities and achievements. Each activity must be labeled properly (Prof. & Head, ARS, Kovilpatti)
- 1.2. A ten acre demo plot on **complete farm mechanization** in millets / pulses may be displayed near the NH7 to exhibit TNAU technologies. The required farm implements may be intended for free transfer from other stations / colleges
- 1.3. A model demo plot on **rained farming practices** in millets / pulses may be displayed to exhibit TNAU technologies. Technology capsule may also be developed for rained farming. Farmers and other visitors can be shown the successful technologies.

- 1.4. **Farm pond** may be repaired and the recycling of water for cropping may be demonstrated with economics and water saving. Moisture depletion pattern is to be studied using tensiometer and other drought related parameters utilizing the analytical services / equipments in DARS, Chettinad.
- 1.5. All the **experimental fields** are to be properly labeled with flex boards as per the stipulated guidelines of TNAU (All Scientists)
- 1.6. The varieties and technologies have to be displayed along with their respective posters in the already established **exhibition hall** to portrait the activities and achievements. A TV display may purchased and installed to project the updated technologies, outcome stories and farmers' feedback (All Scientists)
- 1.7. In addition to the varieties / technologies developed by ARS, Kovilpatti, other technologies evolved from TNAU may also be displayed eg. crop boosters, micronutrient mixtures, seed availability, weather information etc may also be displayed. Farmers who intend to visit ARS should be served with the updated and accurate information / Seeds & Planting Materials / Inputs / services.
- 1.8. All the trees are to be **labeled** with botanical name, family and economic use to add value to the educational institution.
- 1.9. **ATIC Sale Center** may be established in front of the ARS, Kovilpatti, for promoting TNAU technologies and Products.
- 1.10. Mapping of farm soil health status utilizing the services of RS & GIS, TNAU, Coimbatore

2. RESEARCH

- 2.1. All scientists should have at least **one research project** (URP, Core, Externally funded, TANII, NADP etc.) compulsorily. Each research project is supported by field note book, basic record and other related documents
- 2.2. Research on Crop modeling, length of growing period and hydroponics of fodder maize may undertaken as URP. Scientists may visit Coimbatore to develop research projects.
- 2.3 Varietal spread of Sorghum (K 12), Karunganni Cotton (K-12) and chillies (K1 and K2) may be assessed in southern districts.
- 2.4. **Barcoding** facility may be created to ensure quality assurance and tracking of seeds in the supply chain in accordance with the amendments in Seed Act 1966.
- 2.4. **URP** may be proposed / continued to undertake research on fine tuning of transplanting techniques developed by TNAU for redgram under rainfed conditions.

There is an urgent need to undertake this tasks immediately as per the directions of the Government and the University.

- 2.5. Scientists are encouraged to propose **externally funded projects** to enable high quality publications. The UGC insists that each scientist must publish at least one paper with NAAS rate > 6 per year.
- 2.6. Relative performance of crops (millets or pulses) to **sheep penning** should be studied as part of **zero budget farming**. Nutrient dynamics, growth and yield performance have to be assessed for determining scientific validation and economic feasibility of Zero Budget Farming. PG or Ph.D. students may be allotted from teaching campuses to ARS, Kovilpatti.
- 2.7. A **biocapsule** encompassing bioinoculants (Azospirillum, Ahoosphobacteria, Pseudomonas, Trichoderma *Purpureocillium lilacinum* and mycorrhiza) may be fortified into vermicompost may be developed. URP may be proposed to develop and study the efficacy of biocapsule for sorghum and chillies.
- 2.8. A mega project on **rained farming** may be proposed for funding by State / Central Governments.

3. ACTION PLANS

- 3.1. **Research Co-ordinator** may be nominated before 16.9.2019 by the HOD to monitor the research projects (externally or internally funded) submission, numbering, completion reports, outcomes, publications, patents etc. He / She will also be responsible for the update of web information
- 3.2. **Cost of publications** or **analytical services** will met from the University with the approval of the Vice Chancellor in the event of the no financial support available in the campus. This is to promote high impact factor publications.
- 3.3. The University has accorded permission in principle to undertake the **Infrastructure facilities** approved as per the VC's review proceedings. Suitable proposals may be submitted for getting the university sanction order prior to implementation.
- 3.4. The **Automatic Weather Station (ASW)** may be repaired at the earliest and enable functioning at the earliest.
- 3.5. A **modified seed drill** demonstrated in ARS, Kovilpatti, may be purchased (Rs. 65,000 for the attachment only) for line sowing of various crops.

4. ADMINISTRATION

4.1. All the files and records such as attendance, pay register, accounts, musters, DMS, increment register, confidential reports, audit file and others are well maintained and updated.

4.2. Action taken report may be updated periodically in the Monthly Reports

K. Srinivasan
9/19/14
DIRECTOR OF RESEARCH

To
The Professor and Head, ARS, TNAU, Kovilpatti
The TPO to the Vice Chancellor, TNAU, Coimbatore

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