

Office of the Directorate of Research  
TNAU, Coimbatore

**Dr. K.S. Subramanian**

Director of Research

## **PROCEEDINGS**

A review meeting was conducted at the Agricultural Research Station, Vaigai Dam by **Dr. K.S. Subramanian**, Director of Research, TNAU, Coimbatore, on 15.9.2020. **Dr. K. Sundaralingam**, Professor & Head presented the action taken report on various recommendations of Vice Chancellor's Review, DR's review, SWC, CSM 2020 and others. The following staff members of ARS, Vaigaidam, participated in the meeting and the discussions held thereon.

### **Scientist from O/o the Directorate of Research TNAU, Cbe**

1. Dr.M.Kannan Prof (Hort.)

### **Scientists of ARS, Vaigai Dam**

1. Dr. K.Sundaralingam , Prof & Head
2. Dr.T.L.Preethi, AP (Hort)
3. Dr.M.Jayaramachandran, AP (PBG)
4. Dr.C. Parameswari, AP (PBG)
5. Dr. R.Jeyasrinivas, AP (Agron)

### **I. Vice Chancellor's Review**

The Vice Chancellor, TNAU has reviewed the various activities of ARS, Vaigai Dam on 17.04.2019, 04.11.2019 and 09.12.2019. There were 13 recommendations made and all necessary actions were undertaken. The detailed Action Taken Report for the Vice Chancellor's remarks is enclosed as **Annexure I**.

### **II. Director of Research Review**

The Director of Research has reviewed the research activities of ARS, Vaigai Dam on 07.06.2019. The DR's remarks made on 13.8.2020, 4.11.2019 and 9.12.2019 and the Action Taken Report is enclosed as **Annexure II**. There were 22 recommendations during all three visits together and all necessary actions were undertaken as suggested without any deviations.

### **III. Cropping Programme**

There were 5 recommendations in the Cropping program review conducted by the Vice Chancellor on 4.7.2020. There were four recommendations and all have been undertaken. The revenue generation program is also going on as scheduled. Follow-up of Cropping Programme of ARS, Vaigai Dam is enclosed as **Annexure III**.

#### **IV. Follow up of Crop Scientists Meet 2020**

The Follow-up of Scientists Meet 2020 of ARS, Vaigai Dam is enclosed as **Annexure IV**. There are five recommendations and are being done as planned / suggested.

#### **V. Action Taken Report on the Proceedings of 2<sup>nd</sup> Interim Review Meeting of SWC 2019 held on 11.03.2020**

Action taken report on the Proceedings of 2<sup>nd</sup> Interim Review Meeting of SWC 2019 held on 11.03.2020 is enclosed as **Annexure V**. The VGD 1 (alternate to seeraga samba rice) exporters' meeting has been scheduled on 8.10.2020 involving Commissioner of Agricultural Marketing & Agri-Business, Chennai.

In the mean time, Field day was conducted in AC & RI, Madurai, on 7.2.2020 involving KVK, Madurai, farmers, stakeholders, traders, NGOs and Govt. officials. The Theni District Collector organized a press meet to popularize the VGD 1. Wide coverage in mass media was done including Radio, TV and News Papers.

#### **VI. Review on URP and Action Plan for 2020-21**

The work done on University Research Projects of individual scientists was reviewed by Director of Research and the details are enclosed as **Annexure VI**.

There are **six completion reports** submitted and pending at different stages of approval. The Prof. & Head is requested take immediate steps to clear all the completed projects and get the final approval from the Directorate of Research on or before 31.10.2010.

#### **VII. Individual scientists Review on 15.09.2020**

The review started with power point presentation by Dr.K.Sundaralingam , Professor and Head of the Station in which the action taken report on VC's and DR's previous visits, mandate of the station, work being done, follow up action on cropping programme and Crop Scientists Meet and issues of the station were discussed.

#### **Dr. K. Sundaralingam, Prof. & Head, ARS, Vaigai Dam**

- Steps to be taken to ensure visibility of the Research Station.
- The research station has to ensure supply of quality seeds to serve the farming community.
- A project on Designer seed in sesame may be proposed.

- **Dr. M. Madan Mohan**, Associate Prof (PBG) who has been transferred recently to AC&RI, Kudumiyanmalai has to identify and hand over all the advanced cultures evolved along with **VGD 1** to the Prof. & Head, ARS, Vaigai Dam, with proper labeling. He can propose a **new URP** in his name to continue to work in the same direction with improved traits such as aroma, short duration and other traits with an added advantage of fine quality rice.

**Dr M. Jayaramachandran, Asst.Prof. (PBG)**

- Monetization of VGD 1 is to be done. Quantity of VGD 1 seeds supplied and area covered by VGD 1 in farmers field is to be quantified. Improvement in the livelihood of the farmers due to VGD 1 cultivation is to be assessed.
- Extension proposal may be sent for ICAR - RF on or before 15.10.2020
- New Project may be proposed
- Follow up on NADP project intended for production and supply of VGD 1 rice.

**Dr. Jayasrinivas, Asst. Prof. (Agron)**

- One URP (Herbicide project) completed and final submission is to be done to the DR office on or before 31.10.2020.
- Extension proposal for the URP (Rice based cropping system) may be sent to the DR office for approval

**Dr. C. Parameswari, Asst. Prof. (PBG)**

- Possibilities for export of VGD 1 has to be explored.
- Bar coding of cultures & varieties (VGD 1) may be explored
- Research related to scented rice may be concentrated.
- BRNS funded project may be transferred from AC&RI, Madurai to ARS, Vaigai Dam and for which request letter to be sent for University approval.
- Action may be initiated to propose a project under TANII on breeding for developing an export variety with jasmine flavour in consultation with Director (CPBG).

**Dr.T.L.Preethi, Asst.Prof. (Hort.)**

- Three days she spent for teaching in HC & RI, PKM
- Vegetable Seed Production may be ensured with indent
- The URP on lablab may be intensified
- Landscaping of the station may be done with the help of UG Experiential Learning course students.

**Dr. G. Mani, Asst. Prof (SST)**

- Status of URPs handled by him may be reported to the undersigned for necessary action.

## VIII.

### Specific remarks

1. Follow up work at Registrar's office for **conversion of three quarters** to godown and four quarters for demolition.
2. Funds may be requested for clearing the bushes along the fence of the station.
3. Special permission may be obtained for getting a Airtel landline connection to the station.
4. **One minute video on VGD 1** (YouTube) which focuses mainly of field view of the crop during different stages of growth and with shots on grain and rice to be prepared.
5. **Exhibition hall** may be formed with proper lightning with the main focus on VGD 1 and the vision of the station.
6. **Brochure** for the station may be prepared as per the model given by DR
7. The growth of bamboo may be assessed.

### b. General remarks:

1. Uncultivable land area may be utilized for agro-forestry/ multifunctional forestry.
2. Steps may be taken to send completion reports of URP and follow up may be carried out.
3. Each scientist must have atleast one URP.
4. Flex may be used for field boards instead of writing with paint.
5. Priority may be given to rectify the ceiling of storage godowns opposite to the office, for which the Estate Officer, Coimbatore may be contacted for getting estimate of repairs.

## IX. Field Visit:

1. Crop stand and field maintenance of Breeder seed production field of groundnut TMV14 and BSR 2 are good and appreciable.
2. TFL seed production field of annual moringa PKM1, Black gram VBN 8, Green gram VBN 3 and Hybrid seed production plot of castor is well maintained and crop stand is good.
3. Oxygen park with *Bambusa balcooa* and *Bambusa tulda* is being maintained well and crop is good.
4. Maintenance of Grow out test farm is good and efforts may be taken to paint the board and fence.

## Visit to pump house of Farm II and Storage godowns

1. Dr.K.Sundaralingam, Professor and Head explained the urgency of rectifying the roof of storage godown in order to protect seeds and was requested to submit a proposal to DR, with estimate obtained from AEE, HC&RI, PKM.
2. Pump houses are being maintained well and further efforts may be taken to erect chain link for easy maintenance of lifting and fitting of motor pumps.

## Office Inspection

The Director of Research on 15.09.2020, reviewed the office of the Professor and Head, ARS, Vaigai Dam (Non-Teaching staff) for the period 2019-20. The Director of Research verified all the Registers, Cash books, Attendance etc., pertaining to office Administration. He also reviewed on pending Audit paras & the details of AUC's sent for the ICAR/Externally funded projects. Finally he reviewed the Establishment matters of the station. All the records are well maintained.

  
5.10.2020

 5/10/20  
**DIRECTOR OF RESEARCH**

To

The Professor and Head, Agricultural Research Station, Vaigai Dam  
Copy to the TPO to the Vice Chancellor, TNAU, Coimbatore

**I. ACTION TAKEN REPORT ON THE PROCEEDINGS OF  
VICE CHANCELLOR'S REVIEW CONDUCTED AT ARS, VAIGAI DAM  
ON 17.04.2019, 04.11.2019 and 09.12.2019**

**A. Action taken report for the recommendations made during the visit on 17.04.2019**

S.No	REMARKS	ACTION TAKEN																																				
1	Operational area of GOI-DST Scheme may be extended to foot hills of Megamalai	<ul style="list-style-type: none"> <li>• Training on "Seed production and value addition techniques in barnyard millet and little millet" was organized at Megamalai on 4.10.2019 to promote barnyard millet and little millet cultivation</li> </ul>																																				
2	Popularization of VGD 1 paddy variety through KVK's by conducting FLD's	<ul style="list-style-type: none"> <li>• A total quantity of 880 kg of Paddy VGD 1 TFL seeds were distributed to the following KVKs for conducting FLDs.</li> </ul> <table border="1" data-bbox="899 215 1227 983"> <thead> <tr> <th>S.No</th> <th>Name of the KVK</th> <th>:</th> <th>Qty (Kg)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>KVK, Tirur</td> <td></td> <td>160</td> </tr> <tr> <td>2.</td> <td>KVK, Arupukottai</td> <td></td> <td>300</td> </tr> <tr> <td>3.</td> <td>KVK, Madurai</td> <td></td> <td>100</td> </tr> <tr> <td>4.</td> <td>KVK, Sikkal</td> <td></td> <td>120</td> </tr> <tr> <td>5.</td> <td>KVK, Tiruppur</td> <td></td> <td>90</td> </tr> <tr> <td>6.</td> <td>CENEDECT KVK, Theni</td> <td></td> <td>80</td> </tr> <tr> <td>7.</td> <td>KVK, Karur</td> <td></td> <td>30</td> </tr> <tr> <td colspan="3"><b>Total</b></td> <td><b>880</b></td> </tr> </tbody> </table>	S.No	Name of the KVK	:	Qty (Kg)	1.	KVK, Tirur		160	2.	KVK, Arupukottai		300	3.	KVK, Madurai		100	4.	KVK, Sikkal		120	5.	KVK, Tiruppur		90	6.	CENEDECT KVK, Theni		80	7.	KVK, Karur		30	<b>Total</b>			<b>880</b>
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3.	Popularization of VGD 1 paddy variety for briyani to student's mess of nearby TNAU colleges	<ul style="list-style-type: none"> <li>• Paddy VGD1 rice (35 kg) was supplied to the following college hostels for preparing briyani for students.</li> </ul>																																				

S.No	REMARKS	ACTION TAKEN
		<ul style="list-style-type: none"> <li>i. HC &amp; RI, Periyakulam - 15 kg</li> <li>ii. AC &amp; RI, Madurai - 20 kg</li> </ul>
4.	CO 52 (MGR 100) TFL seeds procured under NADP - MGR 100 rice popularization scheme may be distributed to interested farmers in and around Theni dt.	<ul style="list-style-type: none"> <li>• 31.96 tonnes of CO 52 TFL seeds were distributed to 1117 interested farmers of Periyakulam, Cumbum, Theni, Bodi, Uthamapalayam and Andipatty blocks of Theni district.</li> </ul>
5.	TFL seeds of the maize hybrid COH (M ) 6 may be distributed to interested farmers in maize growing tracts in order to popularize the hybrid.	<ul style="list-style-type: none"> <li>• COH(M)6 Maize hybrid TFL seeds were distributed to KVK, Thoothukudi , farmers of Vellore district and Dept of Farm Management, AC&amp;RI, Madurai.</li> </ul>
6.	Seeds should be sold on credit basis only to government agencies after obtaining proper acknowledgment by mentioning the name of the Officer in - Charge.	<ul style="list-style-type: none"> <li>• For all government agencies, seeds are being supplied on credit basis after obtaining complete postal address and contact number of the officer in-charge.</li> </ul>
7.	Possibilities of erecting solar fencing may be explored to avoid pilferage.	<ul style="list-style-type: none"> <li>• The perimeter of the farm measures approximately 6 km. On discussion with the AEE (Civil) of HC&amp;RI, Periyakulam, the estimated budget for erecting solar fencing is around Rs.96 lakhs.</li> <li>• The honourable Vice Chancellor during his visit instructed to use Chain link fences to avoid pilferage. Chain link fences were purchased and fixed in the gaps to avoid trespassers.</li> </ul>
8.	TNPL may be approached for coppicing of eucalyptus trees being used as wind belt at Farm II by following the University norms.	<ul style="list-style-type: none"> <li>• TNPL has not shown interest in taking eucalyptus trees. This was discussed with the honorable Vice Chancellor during his visit on 04.11.2019 and Vice-Chancellor suggested to follow adopt tender by following University norms.</li> </ul>

S.No	REMARKS	ACTION TAKEN
9.	Hitachi podlain to be obtained on loan basis from HC&RI, Periyakulam to clear the unwanted vegetation in B and C Blocks of Farm II in order to facilitate raising high value tree crops. Forest College, Mettupalayam to be contacted for planting the high value tree crops.	<ul style="list-style-type: none"> <li>• Hitachi Podlain was obtained from HC&amp;RI, Periyakulam and cleared the unwanted vegetation in B and C Blocks of Farm II. Oxygen park was established in the areas which were brought back for cultivation</li> </ul>
10	The underground irrigation pipelines should be laid in both the farms wherever possible in order to reduce the percolation losses.	<ul style="list-style-type: none"> <li>• Underground pipelines were laid out in B and C blocks for extending irrigation facility to irrigate the existing perennial trees viz., Cashew, Tamarind, Anola and newly planted saplings such as Bamboo and Moringa.</li> </ul>
11	The possibilities for realigning the field boundaries to form blocks in farm I may be explored to facilitate farm mechanization.	<ul style="list-style-type: none"> <li>• The field Nos 4 to 11, 19, 33 and 34 of Farm I were realigned and VGD 1 Nucleus and Breeder seed crops are being raised.</li> </ul>
12.	Old unutilized quarters (3 nos.) in Farm II may be modified and used for storing fertilizers by installing grill gates.	<ul style="list-style-type: none"> <li>• The estimate for converting unutilized quarters to storage godown was submitted for getting USO. Awaiting for the Building inspection committee's visit and further approval for conversion.</li> </ul>
13.	Non dwellable quarters (4 nos.) in Farm II may be demolished by following University norms.	<ul style="list-style-type: none"> <li>• The Building Inspection Committee was constituted by the Registrar, TNAU and awaiting for their visit for further follow up action.</li> </ul>



**B. Action taken report for the recommendations made during the visit on 04.11.2019**

S.No	REMARKS	ACTION TAKEN
1	The area brought back for cultivation after cleaning of thorny bushes in the Block B & C of Farm II may be planted with Bamboo by following the spacing of 12' x 8'.	<ul style="list-style-type: none"> <li>The B and C block area of Farm II were cleared and bamboo seedlings were planted on 02.01.2020 by following the spacing of 12' x 8'</li> </ul>
2	The Director , Water Technology Centre, TNAU, Coimbatore may be contacted to spare the irrigation pipes available at WTC for laying of new irrigation facilities for the above said planting.	<ul style="list-style-type: none"> <li>The Director, Water Technology Centre was contacted and the scientist visited the godown where the pipes kept at WTC, Coimbatore. Those pipes did not serve our purpose and hence new pipes were purchased using the funds available in Revolving fund scheme</li> </ul>
3	Technical guidance regarding planting of Bamboo may be availed from Grow more Biotech Pvt. Ltd, Hosur, Krishnagiri District	<ul style="list-style-type: none"> <li>Mr.T.S.Pannarselvam, Agronomist and General Manager, Grow More Biotech Pvt, Ltd, Hosur, Krishnagiri District was invited for seeking technical advice for bamboo planting and he visited the farm twice and guided us for establishing the Oxygen park.</li> </ul>

**C. Action taken report for the recommendations made during the visit on 09.12.2019**

S.No	REMARKS	ACTION TAKEN
1	The area brought back for cultivation after cleaning of thorny bushes in the Block B & C of Farm II may be utilized for the establishment of Oxygen park by planting Bamboo saplings by following the spacing of 12' X 8'.	<ul style="list-style-type: none"> <li>The area brought back for cultivation after cleaning of thorny bushes in B and C block were utilized for the establishment of Oxygen Park by planting Beema bamboo seedlings.</li> </ul>
2	The planting work has to be completed before December 2019.	<ul style="list-style-type: none"> <li>The planting of Beema bamboo was inaugurated on 02.01.2020 and completed on 10.01.2020.</li> </ul>

**II. ACTION TAKEN REPORT ON THE PROCEEDINGS OF  
DIRECTOR OF RESEARCH REVIEW MEETING OF REGION - I CONDUCTED AT TNAU ON 13.08.2020.**

**a. General remarks**

<b>S.No</b>	<b>REMARKS</b>	<b>ACTION TAKEN</b>
1	All the name boards of the Research Stations should be made visible to the public	<ul style="list-style-type: none"> <li>Efforts have been taken to paint all the name boards in the Office buildings of Farm I and Farm II. A new board with name of research station has been prepared to fix near the entrance of main gate.</li> </ul>
2	A mini exhibition is to be displayed to explain the activities of the station whenever farmers or VIP's are visiting the stations.	<ul style="list-style-type: none"> <li>A room adjacent to the P&amp;H room has been allotted to display the exhibits of the activities of the station.</li> </ul>
3	Fields are to be maintained clean and field boards and labels of experiments should be properly maintained	<ul style="list-style-type: none"> <li>All the fields are being cleaned regularly and field boards and labels are displayed after taking up sowing.</li> </ul>
4	In view of the ensuing Golden Jubilee of the University from 1.6.2021, proposals if any like mass tree planting or others may be communicated.	<ul style="list-style-type: none"> <li>As per the suggestion, the proposals will be communicated in future.</li> </ul>
5	Beautification of all Research Stations may be taken up with the guidance of Dr.Lourdhassamy, Professor and Head, HREC, Gudalur with minimum expenditure for establishing lawn, hedge crop of duranta etc.,	<ul style="list-style-type: none"> <li>Landscape plan has been developed and will be forwarded to Dr. D. Keiser Lourdhassamy, Assoc. Professor and Head, HREC, Gudalur for suggestion.</li> </ul>
6	Every scientist should have one University Research Project (URP) of Regional importance or local needs. The scientists may start up with URP and end up with externally funded proposals. AICRP Scientists are also expected to do URPs for local problems. The research outcome in the form of	<ul style="list-style-type: none"> <li>As per mandate, all scientists have one URP scheme as furnished below :</li> <li>Dr.M.Jayaramachandran, Asst. Prof.(PB&amp;G) : CPBG / VGD / PBG / RIC/2018/001Breeder Seed Production in Paddy. Duration : Oct 2018 to Sep 2021</li> </ul>

	<p>publication of high impact factors / NAAS rating of more than 6 / Patient is expected to improve the NIRF rating of the University.</p>	<ul style="list-style-type: none"> <li>• Dr.T.L.Preethi, Asst. Prof (Hort) :Development of high yielding short duration bush type vegetable garden bean (<i>Lablab purpureus</i> var. <i>typicus</i>). Duration :April 2019 to March 2022.</li> <li>• Dr.R.Jeyasrinivas, Asst. Prof (Agron): DCM/VG1/AGR/MAZ/2020/ 001.Grain cum fodder production in maize based intercropping system under irrigated condition. Duration :September 2020 to January 2021</li> <li>• As Dr. K. Sundaralingam, Professor (SST) and Head and Dr. C. Parameswari, Asst. Prof (PBG) have joined recently, preparation of project for URP is in progress in consultation with their respective faculties.</li> <li>• Dr. C. Parameswari, Asst. Professor (PBG) is operating an externally funded scheme entitled "BRNS/CPBG/MDU/SES/2018/R003 -Development of Early Maturing Determinate White Seeded Sesame (<i>Sesamum indicum</i> L.) through gamma irradiation". with the budget of Rs. 26.5 lakhs. The project will be completed during 2020-21.</li> </ul>
7	<p>The Cropping Program finalized for 2020-21 is to be carried out without any deviations.</p>	<ul style="list-style-type: none"> <li>• As per the Cropping program, seed production in Paddy VGD 1, ADT 37, black gram (VBN(Bg) 8), green gram (VBN(Gg)3) and Vegetable crops viz., Pumpkin, Ash gourd and other research trails have been taken up.</li> <li>• Breeder seed productions in Paddy VGD 1, groundnut (TMV 14 and BSR 2) have been taken up as per the target assigned by the Director (CPBG). BSP in Fodder</li> </ul>

		<p>Sorghum will be taken up during third week of September, 2020.and FS/ TFL Seed production have been taken up</p> <ul style="list-style-type: none"> <li>• Sunnhemp has been sown for seed production in fallow lands in Farm I and Farm II.</li> <li>• All scientists are taking action according to the remarks of crop scientists meet 2020 and reports are being communicated to the respective Technical Directors regularly.</li> <li>• A draft brochure for ARS, Vaigai dam will be prepared and submitted to the Director of Research for approval.</li> </ul>
8	Necessary actions are to be taken by the individual scientists relating to the remarks made in the proceedings of various Crop Scientists meet 2020.	
9	All the Research stations are informed to prepare uniform brochure to be given away to visiting VIPs and scientists. A model will be circulated from the O/o.Director of Research.	

**b. Specific remarks to ARS, Vaigai Dam**

S.No.	REMARKS	ACTION TAKEN
1.	Demonstration plots of one acre VGD 1 rice should be taken up in two seasons for wider publicity	Nursery has been raised to take up demonstration plot in one acre each at Farm I and II.
2.	Quarters demolishment work and conversion of renovation of quarters in to seed godown are to be followed.	The issue was discussed with Assistant Executive Engineer of HC&RI, Periyakulam on 09.09.2020 and he assured to carry out the works at the earliest.
3.	Bamboo plantations are to be labeled and growth monitored to access the benefit of biomass production	The bamboo plantation has been labeled. Growth of Bamboo is being monitored periodically and now the crop is in active tillering stage.
4.	Required care is to be taken in vegetable seed production	Vegetable seed production in Annual Moringa var. PKM 1, Pumpkin and Ash gourd have been taken up to meet out the target assigned by the Director , Seed Centre, TNAU, Coimbatore. Seed production in other

S.No.	REMARKS	ACTION TAKEN
		gourds will be taken up in phased manner at the earliest to achieve the target.
5.	May have link with RRS, Vridhachalam for sesame breeding.	<ul style="list-style-type: none"> <li>An URP on evolving phyllody resistant lines/cultures through mutation is being implemented. Arrangements were made to do irradiation at IGCAR, Kalpakkam. During screening process in M<sub>2</sub> generation the services of RRS, Vridhdachalam will be utilized.</li> </ul>
6.	Beautification of station including indoor planting and vases should be used	<ul style="list-style-type: none"> <li>Landscaping plan for outdoors has been prepared and indoor planting and vases are being arranged for beautification of station.</li> </ul>
7.	Drip fertigation in rice may be taken up.	<ul style="list-style-type: none"> <li>Since, this station has adequate irrigation facility from River Vaigai, the feasibility of drip fertigation in rice will be discussed with Director (Crop Management) and the work will be assigned to Dr. R. Jeyasrinivas, Asst. Prof (Agron).</li> </ul>
8.	Farm Management may be strengthened by allotting required works to field staff like Junior Agricultural Officer.	<ul style="list-style-type: none"> <li>Th. Murugan, Junior Agricultural Officer, has been given with the responsibility of Farm Manager for Farm I under the control of Farm Superintendent Dr.M.Jayaramachandran Asst. Prof (PBG).</li> </ul>

**ACTION TAKEN REPORT ON THE PROCEEDINGS OF  
DIRECTOR OF RESEARCH REVIEW CONDUCTED AT ARS, VAIGAI DAM ON 07.06.2019.**

S.No.	REMARKS	ACTION TAKEN
<b>I.</b>	<b>RESEARCH</b>	
1.	All scientists should have at least one research University Research Project (URP) as per research station mandate to address farmers need	<ul style="list-style-type: none"> <li>• As per mandate, all scientists have one URP scheme as furnished below ::</li> <li>• Dr.M.Jayaramachandran, Asst. Prof.(PB&amp;G) : CPBG / VGD / PBG / RIC/2018/001Breeder Seed Production in Paddy. Duration Oct 2018 to Sep 2021</li> <li>• Dr.T.L.Preethi, Asst. Prof (Hort) :Development of high yielding short duration bush type vegetable garden bean (<i>Lablab purpureus var typicus</i>). Duration : April 2019 to March 2022</li> <li>• Dr. R. Jeyasrinivas, Asst. Prof (Agron): DCM / VG1 / AGR / MAZ / 2020 / 001.Grain cum fodder production in maize based intercropping system under irrigated condition. Duration : July, 2020 to June, 2023</li> <li>• As Dr. K. Sundaralingam,Professor (SST) and Head and Dr. C. Parameswari,Asst. Prof (PBG) have joined recently, preparation of project for URP is in progress in consultation with their respective faculties.</li> <li>• Dr. C. Parameswari, Asst. Professor (PBG) is operating an externally funded scheme entitled</li> </ul>

S.No.	REMARKS	ACTION TAKEN
		BRNS /CPBG/ MDU/SES/ 2018/R003 -Development of Early Maturing Determinate White Seeded Sesame ( <i>Sesamum indicum</i> L.) through gamma irradiation". with the budget of Rs. 26.5 lakhs. The project will be completed during 2020-21.
2.	A new URP on designer seeds may be proposed by the Seed Technologist in consultation with Department of Nano science and technology (NST), TNAU, Coimbatore. Dr.K. Raja, Assistant Professor (Seed Technology), Department of NST may be contacted for formulating the project.	<ul style="list-style-type: none"> <li>• Dr. G.Mani Asst. Prof.(SST) has not proposed new URP on "Designer seeds".</li> <li>• Since Dr. G. Mani Asst. Prof.(SST) has been transferred,</li> <li>• Dr. K. Sundaralingam Professor (SST) and Head is willing to propose the URP in the above topic in consultation with</li> <li>• Dr. K.Raja, Asst. Prof. (SST), Department of Nano Science and Technology (NST), TNAU, Coimbatore. All the laboratory works will be undertaken at Department of Nano Science and Technology and Department of Seed Science and Technology and field evaluation will be carried out at ARS, Vaigai dam.</li> </ul>
3.	A new project for the conversion of dried flowers to fragrance sticks (Uthupathy) and other useful materials may be proposed by Dr.T.L. Preethi, Asst.Prof.(Horti.).	<ul style="list-style-type: none"> <li>• The proposal for new URP is under preparation and will be submitted shortly.</li> </ul>
4.	All the Scientists should propose Externally funded schemes	<ul style="list-style-type: none"> <li>• The external funded schemes will be submitted at the earliest.</li> </ul>
5.	The manuscripts that are to be submitted for publication should get number from the Directorate of Research	<ul style="list-style-type: none"> <li>• Submissions of manuscripts for publication are being followed as per the existing University norms.</li> </ul>

<b>S.No.</b>	<b>REMARKS</b>	<b>ACTION TAKEN</b>
6.	For the completed projects, the closure proposal to be submitted in the prescribed formats for RPAC approval.	<ul style="list-style-type: none"> <li>The closure proposals for the completed projects are being submitted as per the existing University norms.</li> </ul>
<b>II.</b>	<b>FARM</b>	
1.	Cropping program of ARS, Vaigai Dam may be tagged with GIS mapping in consultation with Dr. C.R. Chinnamuthu Professor & Head, Dept. of Agronomy, TNAU, Coimbatore.	<ul style="list-style-type: none"> <li>Letter will be sent to Professor &amp; Head, Dept. of Agronomy, and Professor &amp; Head, Dept. of Remote Sensing, TNAU, Coimbatore for GIS mapping after completion of sowing.</li> </ul>
2.	All fields in both the farms need to be utilized properly for conducting experiments or seed production and ensure cropping intensity more than 200.	<ul style="list-style-type: none"> <li>As per cropping program the seed production and research experiments have been carried out in both farms to ensure the cropping intensity.</li> </ul>
3.	The available farm machineries should be maintained in useable condition.	<ul style="list-style-type: none"> <li>Since, most of the farm machineries available in the station are old, the maintenance costs are very high. However, after regular services, the farm machineries are being utilized in both farms.</li> </ul>
<b>III.</b>	<b>ADMINISTRATION</b>	
1.	Steps to be taken up to drop the pending audit objections.	<ul style="list-style-type: none"> <li>Replies have been prepared for four audit objections and submitted to the Director of Research. Copy of the report also sent to the Comptroller.</li> </ul>
2.	Long-time unsettled credit bills may be cleared or condoned following University norms.	<ul style="list-style-type: none"> <li>Reminders have been sent and efforts are made to contact the concerned offices.</li> </ul>
3.	Annual accounts to be closed and the same may be sent in time to the Comptroller, TNAU, Coimbatore	<ul style="list-style-type: none"> <li>Periodical reports on accounts are being sent to the Comptroller, TNAU, Coimbatore.</li> </ul>



<b>IV. GENERAL REMARKS</b>	
1.	<p>If any proposal pending, regarding conversion of seed to grain may be expedited.</p>
2.	<p>The performance of CO(M)H 6 Maize hybrid in farmers field should be assessed by tracking the farmers who received seeds and the details of the farmers using station seeds should be recorded for our future reference.</p>
3.	<p>A multifunctional forest unit may be established at ARS, Vaigai Dam with the help of Dr.Parthiban, Professor &amp;Head, Dept. of Agroforestry, F.C.&amp;R.I, Mettupalayam</p>
4.	<p>A new landline phone along with good broadband network connection may be installed at ARS, Vaigai Dam by following University norms.</p>
5.	<p>Possibility of establishing an Automated Weather Station (AWS) at ARS, Vaigai Dam may be explored and same may be installed. Director, Crop Management may be consulted for the establishment of the AWS.</p>

- All the seeds have been disposed off, and hence no proposal for conversion of seed to grain was sent.

- About 450 Kg of CO(M) H 6 Maize hybrid seeds were distributed to the farmers of Tuticorin district through ARS, Kovilpatti. A total number of 55 farmers raised this variety. On an average they recorded 5.5 tonnes /ha.

- Oxygen Park with *Bambusa balcooa* was established in an area of 5.0 acres during January 2020 in which 2,315 seedlings were planted with the spacing of 12'x8'. Now, the crops are in active tillering stage.

- Since, BSNL land line facility is not available in this area, Airtel internet connection has been obtained following University norms and working well with the monthly rental charges of Rs.5000/-. Further, efforts will be taken to provide new landline connection.

- An automated weather station is already functioning in the premises of Coconut nursery, Department of Agriculture, adjacent to our station. Arrangements were made through our request to Director, CM for proper functioning of the automated weather station.

### III. Follow of Cropping programme 2020-2021

S. No	Remarks	Action taken
1.	New area to be expanded for seed production of Moringa (1acre), Rice VGD1 (3acres) and Castor YRCH 1 (1 acre)	<ul style="list-style-type: none"> <li>♦ Planting of Moringa PKM 1 in 1.32 acres in Farm II was taken up and the crop is in flowering stage.</li> <li>♦ About 2.4 acres were cleared after removal of thorny bushes and unwanted plants in Farm I.</li> <li>♦ Paddy VGD 1 TFL seed production will be taken up during samba.</li> <li>♦ Castor YRCH 2 hybrid seed production will be taken up during September 2020 for which parental seeds were received from TCRS, Yethapur.</li> </ul>
2.	Live fence <i>Acacia mellifera</i> is to be managed with help of contractual labourers	<ul style="list-style-type: none"> <li>♦ Permission was obtained from Director of Research for calling quotations for contractual labourers and the work will be completed before the end of September 2020.</li> </ul>
3.	Proposals for the purchase of new set of implements, such as groundnut seed drill, groundnut harvester and stripper, bund moulder etc., may be sent with the funds available in VCS /RF/ other sources for University approval.	<ul style="list-style-type: none"> <li>♦ ASO was obtained for the purchase new set of implements like groundnut seed drill, groundnut harvester, Stripper and bund moulder under Revolving Fund. After ascertaining the availability of funds, purchase proposal will be sent.</li> </ul>
4.	Proposal to get a Pump Attender will be considered at an appropriate time and time being manage with available PUSM.	<ul style="list-style-type: none"> <li>♦ A Pump Attender was posted recently on transfer from HC &amp; RI, Periyakulam and he joined duty on 03.08.2020.</li> </ul>

### Action taken for Revenue generation

SI No	Particulars	Area ( Ac)
1.	Annual Moringa PKM 1	: 1.3
2.	TFL seed production in Rice VGD 1	: 3.0
3.	Breeder Seed Production in Fodder sorghum CO 31	: 0.5
4.	TFL seed production Fodder sorghum CO 31	: 1.0
5.	Castor TRCH 1 hybrid seed production	: 4.0
6.	Production of Coconut seedlings	: 1000 Nos

**IV. FOLLOW UP OF CROP SCIENTISTS MEET - 2020**

Sl No	Scheme/Project	Remarks ( General)	Action taken
1	<p>ICAR-RF/ARS,VGD/2019/D003.                      Revolving Fund for the Breeder seed production of rice, oilseeds and pulses at ARS, Vaigai Dam, initiated with the seed money of ICAR- NSP Crops                      PL: Dr.M.Jayaramachandran, Asst.Prof (PBG)                      Dr. C.Parameswari, Asst.Prof (PBG)</p>	<ul style="list-style-type: none"> <li>All the BSP centres are requested concentrate breeder seed production in separate block and well separated from the other class(F/C/TFL) seed production block</li> <li>The Profit generated under revolving fund may be utilized for the mechanisation in breeder seed production in order to reduce the labour requirement</li> <li>While choosing the other class seed production the crop/ varieties under breeder seed production may be chosen in order to avoid possible admixtures</li> <li>Groundnut stripper may be purchased in consultation with the Dean (Agrl. Engg.) by utilising the profit generated and put to use in order to reduce the major labor demanding operation of stripping of groundnut seed pods</li> <li>Efforts may be taken to utilize the profit generated under BSP- revolving fund to build a new godown exclusively for breeder seed.</li> </ul>	<ul style="list-style-type: none"> <li>The fields are earmarked separately for paddy varieties viz., ADT 37, ADT (R ) 45, VGD 1 and groundnut varieties viz., TMV 14, CO 6</li> <li>Got ASO for the purchase of farm machineries viz., Groundnut seed drill and wetland Bund former during 2020-21</li> <li>Scrupulously followed .</li> <li>A groundnut stripper is already available at ARS, Vaigai Dam.</li> <li>Proposal will be submitted .</li> </ul>

S. No	Scheme/Project	Remarks ( General)	Action taken
2.	ICAR-MSP/CPBG/VGD/2015/D 001- Revolving fund for the seed production in agricultural crops (Horticultural crops) at ARS Vaigai Dam, initiated with the seed money of ICAR- MSP Crops PL: Dr. TL. Preethi (Hort) Dr.M.Jayaramachandran (PB&G)	Since, the revenue is less efforts should be taken to increase the revenue and profit during 2020-21	<ul style="list-style-type: none"> <li>• TFL seed production of PKM1 Moringa has been added to increase the revenue.</li> </ul>
3.	CPBG/VGD/PBG/RIC/2020/001 Nucleus and Breeder seed Production of VGD 1 paddy variety (Sept 2019 to Aug 2021) PL: Dr.M.Jayaramachandran (PB&G)	The project may be continued	<ul style="list-style-type: none"> <li>• Crop will be raised during ensuing late samba season</li> </ul>
4.	CPBG/VGD/PBG/RIC/2018/001 Breeder seed production in paddy (Oct 2018 to Sep 2021) PL:Dr.M.Jayaramachandran (PB&G)	The project may be continued	<ul style="list-style-type: none"> <li>• Crop will be raised during ensuing Rabi season</li> </ul>
5.	CPBG/VGD/PBG/SES/2020/001. Genetic improvement of sesame to evolve phyllody resistant cultures/lines through induced mutation PL:Dr.M.Jayaramachandran (PB&G)	New project	<ul style="list-style-type: none"> <li>• Crop will be raised during current season</li> </ul>

	<p>HCRI/VGD/HOR/VEG/2019/001 Development of high yielding short duration, bush type vegetable garden bean ( Lablab purpureus var. t) ypicus) ( July 2019- March 2022) PI: Dr.TL.Preethi</p>	<p>To be continued</p>	<p>♦ Crop will be raised during current season</p>
	<p>Millet Action Plan3: Grain cum Fodder Production in Maize based intercropping system under irrigated condition PI: Dr.R.Jeyasrinivas (Agro)</p>	<p>Activity - To find out the influence of intercropping fodder maize and fodder cowpea on the yield of grain maize and green fodder under different fertilizer levels</p>	<p>♦ Crop will be raised during September 2020.</p>
	<p>OFT on Weed Management options in irrigated hybrid maize PI: Dr.R.Jeyasrinivas (Agro)</p>	<p>Obj: To identify suitable combination of pre and post emergence herbicides for weed management in Maize.</p>	<p>♦ Crop will be raised during September 2020.</p>

**V. ACTION TAKEN REPORT ON THE PROCEEDINGS OF 2<sup>ND</sup> INTERIM REVIEW MEETING OF SWC 2019 HELD ON 11.03.2020**

S. No	Remarks ( General)	Action taken
1.	<p>VGD 1 (as alternate for jeeraga samba rice) A meeting has to be organized for rice exporters and traders to promote this variety at a large extent in the month of April 2020 involving CAM &amp; AB.</p>	<ul style="list-style-type: none"> <li>• A field day was organized at AC&amp;RI, Madurai on 7.2.2020 jointly by AC&amp;RI, Madurai, KVK, Madurai and ARS, Vaigai Dam by inviting officials of Department of Agriculture, progressive farmers, entrepreneurs, representatives of leading Hotels, Millers and NGO's. Dean, AC&amp;RI, Madurai presided the function. Scientists have explained the importance of Paddy VGD 1 to the participants.</li> <li>• In addition, press meet was conducted at ARS, Vaigai Dam on 18.09.2019 under the chairmanship of District Collector, Theni to popularize the VGD 1 paddy variety. The details about the cultivation practices and special characters of VGD 1 paddy variety was promulgated to farming community through all local Newspapers and T.V Channels.</li> </ul>

## VI. PROJECT WISE REVIEW REPORT

### A. University Research Project

S. No.	Project Leader	Project No. & Title	Date of Start & Closure	Progress of work	Remarks	Action taken
1.	Dr.M.Jayaramachandran Asst. Prof.(PB&G)	CPBG/VGD/PBG/RIC /2018/001 Breeder Seed Production in Paddy	Oct. 2018 to Sep. 2021	About 12.00 t of ADT 37 Paddy breeder seeds were produced from 3.7 ha. 0.4 ha of IR 36 Paddy breeder seed crop is in the field.	Project may be continued.	Project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore
2	Dr.M.Madhan Mohan, Asst. Prof (PB&G)	CPBG/VGO/PBG/RIC /2010/001 : Evolution of rice varieties with improved grain quality	Oct 2010 to Mar 2018	Closure proposal presented before RPAC on 11.02.2019 at TNAU, Coimbatore.	Need Follow up action for getting approval	Letter has been sent to Dr.M.Madhan Mohan, Asst. Prof (PB&G) with the copy to the Dean, AC & RI, Kudumiyanmalai with the request to communicate the status of completion report.
3	Dr.S.Utharasu, Asst. Prof (PB&G) & Dr.M.Madhan Mohan, Asst. Prof (PB&G)	CPBG/VGO/PBG/BS P/2015/001: Breeder Seed Production of rice varieties	Apr 2015 to Mar 2018	Closure proposal presented before RPAC on 11.02.2019 at TNAU, Coimbatore.	Need Follow up action for getting approval	Letter has been sent to Dr.S.Utharasu, Asst. Prof (PB&G) and Dr.M.Madhan Mohan,Asst. Prof (PB&G) with the copy to their controlling officers with the request to communicate the status of completion report.



4	Dr.G.Mani, Asst. Prof (SS&T)	SEED/VGD/SSST/GG R/2015/001- Performance evaluation of the primed Green gram seeds under storage conditions	March,2015 to Nov, 2018	Sub-project has been completed and completion report submitted	Completion report not yet received at DR Office. Results of this project may bevaliated withproper scientific evidences.	Letter has been sent to Dr.G.Mani, Asst. Prof (SS&T) with the copy to the Programme Coordinator, KVK, Tirur and Director, Seed Centre, TNAU, Coimbatore with the request to communicate the inform the status of preparation of completion report.
5	Dr.R.Jeyasrinivas Asst. Prof (Agr.)	DRES/VGD/AGR/T4 AZ/2016/001 Studies on pre and post herbicidal weed management in maize hybrid COH(M)6	Jan 2016- May 2018	Sub-project has been completed, completion report submitted	Completion report not yet received at DR Office	Completion report has been sent after making suitable corrections vide Ir. No. ARS / VGD / Res. Sub. Project / 2019 dt. 9.06.2020 and the Director of Research has transmitted the same for RPAC approval on 12.06.2020.

6	Dr.R.Jeyasrinivas Asst. Prof (Agr.)	DCN/TN3/AGR/2016/001 Oil seed as a component crop in rice based cropping sequence in canal command area	Sep 2016- Aug 2019	Oil seed crops - (Groundnut (CO 6), Black gram (VBN 4), Sesame (VRI 2) and sunflower (TNAU Sunflower Hybrid CO 2) were harvested.	May be continued	The project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore
7	Dr.D.Thirusendura SeIvi, AP (SST) -PI Dr.S.Saraswathy, Prof (Hort.) - CoPI Dr.G.Mani, AP(SST) -CoPI	SEED/VGD/SST/VE G/2015/002 Management practices to improve the seed yield and productivity in small onion cultivar CO (On) 5	May, 2015 to April, 2018	Sub-project has been completed and completion report submitted	Need Follow up action forgetting approval	Letter has been sent to Dr.D.Thirusendura SeIvi, AP (SST) with the copy to their controlling officers with the request to communicate the status of completion report.
8	Dr.T.L.Preethi Asst. Prof (Hort)-PI Dr.S.JulietHepziba, Prof.(PBG) - COPI	Development of high yieldingshort duration bush type vegetable garden bean ( <i>Lablab purpureusvar typicu s</i> )	April 2019 to March 2022	Presented in RPAC at H.C.&R.I, Coimbatore	Completion report not yet received at DR Office.	The project is not yet completed ,trial is in progress and will be completed in 2022

**B. ICAR Partly / Fully Financed Schemes**

S. No.	Project Leader	Project No. & Title	Date of Start & Closure	Progress of work	Remarks	Action taken
1.	Dr.M.Jayaramachandran, Asst. Prof.(PBG), (From 27.09.2018 onwards) Dr.S.JulietHepziba, Prof.(PBG) & Head	ICAR-RF/ARS/ VGD/2019/D002 Revolving Fund for the Breeder seed production of rice, oilseeds and pulses at ARS, Vaigai dam, initiated with the seed money of ICAR-NSP Crops	1.4.2018 To 31.3.2019	The following quantities of breeder seeds were produced: Paddy ADT 45-10.40 t Groundnut CO6 - 4.08 t Greengram VBN(Gg)3 0.84 t Blackgram VBN (Bg)4 1.35 t	Project may be continued for this year also.	The project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore
2.	Dr.G.Mani Asst. Prof.(SS&T),	ICAR- MSP/CPBG/VGD/2015/D002 Revolving fund- Foundation and Certified/TFL Seed Production in Agrl. Crops - Initiated with the seed moneyof ICAR-NSP (Crops) underSpecial food	18.05.2018 to 31.3.2019	(i)ADT 45 Paddy FS was taken up in an area of 2.16 ac and 2340 kg of processed seed has been obtained. (ii) CS production of MaizeCOHM6 in an area of 2.50 ac was taken up and the crop was harvested. Cob sorting was completed.	Project may be continued for thisyear also.	The project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore

3	Dr. T.L.Preethi Asst. Prof (Hort.) From 03.12.2018 onwards Dr.M.Jayaramachandran, Asst. Prof.(PBG), (From 27.09.2018 onwards)	grain production program me (SFGP)	ICAR- MSP/CPBG/VGD/2 015/D001 Revolving Fund for the Seed production in agricultural crops (Horticultural crops) at ARS, Vaigai dam, initiated with the seed money of ICAR-NSP Crops	1.4.2018 To 31.3.2019	(iii) FS production of Blackgram VBN (Bg) 8 in an area of 2.60 ac and 697 kg of unprocessed seed has been obtained.  Sowing was done as given below: Pumpkin- 0.4 ha, Ash gourd — 0.2 ha Snake gourd- 0.4 ha Bitter gourd — 0.3 ha Onion -0.12 ha Seed yield was Pumpkin 12 kg Ash gourd 11 kg Bitter gourd — 5 kg Snake gourd -15 kg Onion — 9.5 kg 1650 coconut seed nuts were sown in the nursery for germination after curing. 110 coconut seedlings were kept ready for sale	Project may be continued for this year also.	The project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore
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**C. Externally Funded Schemes:**

S. No	Project Leader	Scheme No. & Title	Project period	Status	Remarks	ACTION TAKEN
1.	Dr.R.Jeyasrinivas, Asst. Prof (Agron)	TN-IAMP – Tamil Nadu Irrigated Agriculture and Modernization Project (IAMWARM II) Phase I	2017-2023	73 Demonstrations on GM-SRI was conducted in farmers field of Gangavarpaty and M. Vadipatti. 14 villages were selected and created awareness on pesticide free vegetable cultivation.	The project may be continued as per schedule.	The project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore
2.	PI-Dr.D.ThirusenduraSeIvi, AP (SST) CO-PI-Dr.S.JulietHepziba, Prof.(PBG) Dr. S. Kanchana, Professor (FSN)	DST/SC/VGD/SST/2 016/T001 GOI-GST-NRDMs- Millets scheme E28AAW	2016-2019	Demonstrations and off campus trainings were conducted on popularization of barnyard and little millets	The project may be continued as per schedule.	The project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore
3.	CO-PI Dr.S.JulietHepziba, Prof.(PBG) Dr.M.Madhan Mohan, Asst. Prof (PB&G) Dr.G.Mani, Asst. Prof (SS&T)	NADP-M28-DC Farmers Participatory Seed production and popularization of MGR100 rice in Tamil Nadu	2018-2019	Under popularization of CO52, 1780 kg seeds were distributed for taking up sowing in 35.60 ha to 52 farmers. Under demonstration, 500 kg of seeds and fertilizers were distributed to 10 farmers.	The project may be continued as per schedule.	The project is being continued as per suggestion of the Director of Research, TNAU, Coimbatore
4.	PI -Dr. C. Parameswari Asst. Professor (PBG)	BRNS/CPBG/MDU/S ES/2018/R003 - Development of Early Maturing Determinate White Seeded Sesame	2018-2021	Raised M4 generation. Promising families raised on a plant to progeny row basis. Evaluation of mutant	---	Project is operating at AC&RI, Madurai.

	( <i>Sesamum indicum</i> L.) through gamma irradiation		families for duration, yield and uniform flowering (determinate type).	
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### VII. New project proposals

- ♦ Strengthening of Infrastructure facilities for Augmenting the production and distribution of quality seeds at ARS, Vaigai Dam with the budget out lay of Rs. 128.70 has been submitted to Director of Research for seeking funds under NADP Project.
- ♦ Proposal on "Augmentation of Seed Production in Millets in Theni District" to be submitted to the Indian Institute of Millet Research, Hyderabad for funding is in progress
- ♦ New University Research sub projects on "Evolution of extra early bold seeded greengram types" and "Breeder seed production in groundnut and fodder sorghum" will be submitted by Dr. C. Parameswari, Asst. Prof (PBG) before the end of September 2020.
- ♦ New proposal on "Farmers participatory demonstration of VGD 1 Paddy variety in Theni and Madurai Districts" with the budget of Rs. 14.40 lakhs was sent to Director of Research for external funding.