TAMIL NADU AGRICULTURAL UNIVERSITY

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

Date: 30.03.2019

PROCEEDINGS

The review meeting was conducted under the chairmanship of **Dr. K. S. Subramanian**, Director of Research, TNAU, Coimbatore at Regional Research Station (RRS), Paiyur on 28.03.2019. The following Technical Directors and the scientists of RRS, Paiyur attended the review meeting.

Technical Directors

1. Dr.S.Geetha, Director (CPB&G), TNAU, CBE
2. Dr. V. Geethalakshmi, Director, Crop Management, TNAU, CBE
3. Dr. K. Prabakar, Director, CPPS, TNAU, CBE
4. Dr. R. Santhi, Director, DNRM, TNAU, CBE

Scientist from O/o Directorate of Research, TNAU,CBE

1. Dr. K. Sathyamoorthi, Prof. (Agron.)

Scientists of RRS, Paiyur

1. Dr. N. Tamil Selvan, Prof. & Head
2. Dr. L.Jeeva Jothi, Professor (Hort.)
3. Dr. S.Mohamed Jalaludin, Professor (Ento.)
4. Dr. K.Geetha, Professor (PB&G)
5. Dr. P.Suthamathi, Assoc Professor (PB&G)
6. Dr. R.Sivakumar Asst. Prof (CRP)
7. Dr. M.Vijayakumar, Asst. Professor (Soil Sci.)
8. Dr. G.Guru, Assoc. Professor (Agron.)
9. Dr. Indra, Asst. Professor (Patho.)
10. Dr. S.Srividya, Asst. Professor (Hort.)

Proceedings of Review Meeting

Station: Regional Research Station, Paiyur

Date: 28.03.2019

URP / Externally Funded Projects / VCS / RFS / Core Project / Others

S. No.	Project Leader	Project No. & Title	Date of Start & Closure	Status	Director of Research / Technical Director
Crop Improvement					
1.	Dr. K. Geetha Professor (PBG)	**CPBG/PAI/PBG/RIC/2016/001:** Development of early maturing cold tolerant rice varieties combined with quality traits	June 2016 to Dec. 2018	The new rice culture PYR-12-07-01 was recommended for testing under MLT & OFT during 2018-19 in Crop Scientists Meet on Rice held on 24.04.2018 at TNAU, Coimbatore. Cold tolerant rice new culture PYR 12-07-01 is being tested under MLT and in OFT in 36 locations in Krishnagiri & Dharmapuri district during 2018-19. If found promising in MLT & OFT, the new culture will be proposed for release. Completion report preparation is in progress.	Completion report to be submitted. Prepare a new URP on this line after submission of completion report. This culture may be tested in farmers fields near Madurai and at Gudalur Station. Observations may be recorded based on phenology of the genotypes. Pollen imaging can also be studied.
2.	Dr. K. Geetha Professor (PBG)	**CPBG/PAI/PBG/SOR/2016/001:** Collection, characterization, evaluation and conservation of red sorghum (*Sorghum bicolor*) germplasm lines	Aug 2016 to Dec. 2020	Local types of Sorghum land races and germplasm accessions (RS types-27 nos. & TV types-5 nos) were collected and were sown on 06.09.2018 in G5. Characterization of 32 germplasm accessions of RS and TV types was done based on descriptors collected. Sorghum land races were evaluated for quantitative, qualitative drought associated traits during 2019-20. Sorghum land races 16-05 (RS),	Deposit the land races in Ramaiah gene bank & NPBGR and spare the seeds to Arupukkottai and Madurai. Observe the pest incidence in compact type red sorghum land races. Finger printing to be done.

				2457, 16-01 (RS), 2657, 4269 were found to be early in maturity (82-85 days), high yielding (28 to 29.3g/plant), having high photosynthetic rate, (38.6 $umolm^{2}s^{-1}$), high Proline content (394 ugg^{-1}) and high soluble protein content (14.4 mgg^{-1}) and hence found to be tolerant to drought. These land races can be used as one of the parents in crossing programme for developing short duration, high yielding drought tolerant varieties in sorghum. Pureline selections were made and harvested on single plant basis and will be evaluated for quality parameters during 2019-20.	
3.	Dr. K. Geetha Professor (PBG)	**CPBG/PAI/PBG/BSP/2018/001:** Maintenance and production of nucleus and breeder seeds of rice, horsegram and millet varieties released from RRS, Paiyur.	Dec 2018 to Dec 2023	**I <u>Breeder seed production:</u>** **<u>a.Paddy Co 43 breeder seed production:</u>** Target is 2500 kg. Letter has been sent to all companies requesting for remaining amount. Co 43 Paddy breeder seed was raised in nursery on 18.07.2018 and transplanted on 06.08.2018 & 07.08.2018 in H1, H2 & H3 in an area of 0.93 acres. Monitoring team inspected the crop on 09.11.2018 and 13.12.2018 at flowering and grain maturation stage and certified the crop as true to type. Crop was harvested on 17.12.2018. A total of 1050 kg of breeder seeds were produced. **<u>b.Ragi Paiyur 2 breeder seed</u>**	Project may be continued. Most care to be taken to maintain purity in breeder seed production by the Project Leader.

				production: Target is 80 kg. Nursery was raised on 30.07.2018 and transplanting was done on 27.08.2018 in 0.23 ha in A8, A9, A12 & A18. Monitoring team inspected the crop on 24.10.2018 and 09.11.2018 at flowering and grain maturation stage and certified the crop as true to type. Seed lot inspection was done on 13.12.2018. The crop was harvested on 14.11.2018. A total of 310 kg of breeder seeds were produced. **c.Horsegram Paiyur 2 breeder seed production:** Target is 500 kg. Crop was sown on 08.10.2018 in F5, F6 & H14 in 1.84 acres. Monitoring team inspected the crop on 13.12.2018 and 18.01.2019 at flowering and grain maturation stage and certified the crop as true to type. Crop was harvested on 18.01.2019 and 21.01.2019. A total of 550 kg of breeder seeds were produced. Monitoring team inspected the seed lot on 12.03.2019 and certified as true to type. **d.Ragi Co 15 breeder seed production:** Target is 1000 kg. Received 4 kg of Co 15 nucleus seeds. Sowing was taken up in nursery on 15.01.2019 in H4. Transplanting was taken up on 01.02.2019 & 04.02.2019 in 1.7 acres in H block.	

				Crop is in vegetative stage. **e.Paddy Paiyur 1 breeder seed production:** Target is 100 kg. Crop was raised in nursery on 22.11.2018 and transplanted on 21.12.2018 in A15 in 0.28 ac. BSP I & II was sent on 21.12.2018. Crop is in flowering stage. Monitoring team inspected the breeder seed crop at flowering stage on 12.03.2019 and certified the crop as true to type. **II Breeder seed supply:** **a.Co 43 paddy breeder seed supply:** A total of 1450 kg of Co 43 paddy breeder seeds were produced and supplied on 16.07.2018 to the private indentors without any shortfall. **b.Paiyur 2 ragi breeder seed supply:** A total of 204 kg of Paiyur 2 ragi breeder seeds were produced and supplied to the State indentors during July 2018 without any shortfall. **c.Paiyur 2 horsegram breeder seed supply:** A total of 600 kg of Paiyur 2 ragi breeder seeds were produced and were supplied to the state indentors on 11.08.2018 without any shortfall.	
4	Dr. K. Geetha Professor (PBG)	**Core project–Phase IV: CPBG/PAI/PBG/HRM/2018/CP175** Development of high yielding medium	2018-2019	A core project on horsegram was approved under phase IV as per email received from DR, TNAU,	A promising high yielding photo-insensitive culture may be identified and may

		duration photoinsensitive horsegram genotypes suited to rainfed tracts of North Western Zone through EMS induced mutagenesis		Coimbatore on 11.01.2019. **Mutation breeding work:** Seeds of Karuppu kollu and PYR 15-07-01 were treated with EMS and LD 50 was fixed as 0.2%. The M1 seeds of Karuppu kollu (control, 0.1, 0.2, 0.3, 0.4 & 0.5%EMS treated) and PYR 15-07-01 (control, 0.1, 0.2, 0.3, 0.4 & 0.5%EMS treated) were sown on 10.10.2018 to raise M2 generation for evaluation. Mutants with early maturity (12 plants), high no.of pods (18 plants), bold seeds (10 plants), profuse branching (40 plants) and high grain yield (32 plants) were harvested on single plant basis. These plants will be raised in progeny rows as M3 during October 2019. **Student plot:** M1 seeds of Paiyur 2 (gamma ray treated-100 to 400GY), Paiyur 2 (gamma ray + EMS treated-100 to 400GY), Paiyur 2 (gamma +Electron beam treated-100 to 400GY), Paiyur 2 (Electron beam treated-100 to 400GY), CRIDA 1-18R (gamma ray treated-100 to 400GY) were raised in F4 on 10.10.2018 to raise M2 generation for evaluation. Few chlorophyll mutants, determinate types and plants with difoliate leaflets were identified and tagged. **Screening for photosensitivity:** Promising mutants identified were sown in A10 to screen for	be tested in trials and release a new variety in horsgeram within three years.

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<td>photosensitivity on 25.02.2019.
Horsegram germplasm maintenance:
One hundred and fifty germplasm accessions were sown on 10.10.2018 in F4 for characterization and maintenance.
The following observations were taken on quantitative traits.

<table>
<tr><th>Characters observed</th><th>Range</th></tr>
<tr><td>Days to 50% flow</td><td>50 to 67</td></tr>
<tr><td>Days to maturity</td><td>88 to 111</td></tr>
<tr><td>Plant height</td><td>23.4 to 55.3</td></tr>
<tr><td>No.of branches/ pl</td><td>2.5 to 8.5</td></tr>
<tr><td>No.of pods/plant</td><td>20 to 55</td></tr>
<tr><td>Pod length (cm)</td><td>3.8 to 5.3</td></tr>
<tr><td>No.of seeds/pod</td><td>5 to 5.9</td></tr>
<tr><td>100 seed wt (g)</td><td>3 to 4.3</td></tr>
<tr><td>Grain yield/plot (g) (one row of 4m) length)</td><td>81 to 324</td></tr>
<tr><td>Fodder yield/ plot (one row of 4m length)</td><td>203 to 460 g</td></tr>
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<td>5.</td>
<td>Dr.K.Geetha
Prof. (PBG)</td>
<td>AINRP on Arid legumes -ICAR Voluntry centre</td>
<td>2018-2019</td>
<td>IVT Horsegram: Ten IVT cultures viz., HG 11 to HG 21 except HG 13 were sown in three replications on 10.10.2018 in F4 for evaluation. In IVT, HG 20 recorded highest grain yield of 1183 kg/ha followed by HG 21 (1178 kg/ha), HG 12(1128 kg/ha) & HG 16 (1089 kg/ha) respectively. In IVT, HG 12</td>
<td>University approved ASO to be obtained. Project may be continued.</td>
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				recorded highest fodder yield of 1950 kg/ha followed by HG 20 (1911 kg/ha), HG 16 (1894 kg/ha) & HG 21 (1861 kg/ha) respectively.	
6.	PL: Dr.P.Suthamathi Associate Professor (PBG) Co-PI: Dr.Mohamed Jalaludin, Prof. (Ento.)	**CPBG/PAI/PBG/MOC /2017/001:** Development of short duration high yielding photoinsensitive dual types of mochai (*Lablab purpureus var lignosus* L.)	Aug 2017 to July 2022	The F1s of 13 crosses were raised on 8.10.2018 which includes white seeded parents viz., KPT local, Mecheri local and Denkanikotta local with Photoinsensitive varieties HA3 and HA 4. Flowering was observed in all the crosses even in late sown condition (Flowering coincides during January). Ten entries (Eight local collections with two checks) were raised on 10.09.2018 in three replications. Days to 50 % flowering was observed and coll-11 and coll-29 were found to be early (100 days).The entry Denkanikotta local recorded 2700 kgs of green pod yield (35 % increased over CO2) and 833 kg/ha of seed yield. Seeds of the culture PYR 03-004 were sent to conduct OFT in 50 locations of Krishnagiri, Dharmapuri, Salem, Dindugal and Vellore dts as per the ref.No.P&H /RRS /Paiyur /OFT-Mochai/2018 dt.13.08.2018	After getting OFT results from 100 locations, proposal may be submitted for variety release as dual purpose mochai type.
7.	Dr.P.Suthamathi Associate Professor (PBG)	**CPBG/PAI/PBG/RGR/2016/001:** Evaluation of long duration redgram (*Cajanus cajan*(L.) genotypes with efficient rhizosphere for yield maximization	Jun 2016 to Dec 2020	F1s of following eight cross combinations were raised on 25.07.2018 and transplanted on 24.8.2018 in two replications along with parents. Days to 50 % flowering was recorded and the F1s of cross combination BRG 1 x	• Modify the title as "Development of dual type redgram suited for transplanted condition" and get approval for midterm correction of the project. Root study

				Vathalmalai was found to be early(110 days).All the F1s were harvested crosswise and will be forwarded to F2	to be done. • Soil data also to be documented for comparison
8.	Dr.P.Suthamathi Associate Professor (PBG)	**SEED/PAI/SST/VEG/2016/001:** Standardization of seed crop management and storage techniques in mochai (*Lablab purpureus* var *Lignosus* (L.) genotype PYR-03-004 the pre released culture for rainfed condition	Dec 2017 to Mar 2020	Sowing was done on 14.09.2018 by imposing treatments on fertilizers and spacing in two replications in the culture PYR 03-004 and the crop was harvested.Basal application of NPK@ 25:50:25 kg/ha +ZnSo4 @ 25 kg/ha and adoption of 90 x 60 cm spacing enhanced the seed yield.	The project to be complied and submit completion report.
9.	Dr.P.Suthamathi Associate Professor (PBG) Dr. R. Sivakumar Asst. Prof. (CRP) Dr. T.Anand Asst. Prof. (Pl.Patho))	**Core project–Phase I: CPBG/PAI/PBG/SMM/2018/CP047** Development of high yielding long duration ragi varieties with drought and blast resistance suitable for rainfed areas of North Western Zone (Ongoing Old URP No. CPBG/PAI/PBG/SMM/2017/001)	2018 to 2019	F3 single plants of cross combination viz., Paiyur 1 x Venchuruttai, Paiyur 1 x Karunjuruttai, GPU 28 x Venchuruttai and GPU 28 x Karunjuruttai and the F1s of the cross combination of Paiyur1 x KMR 301 and Paiyur 1 x VR 936 sown under rainfed was harvested. Thrashing is in progress	Present the result along with weather data and to be presented in CSM on Millets 2019 Explore the suitable places for growing of these identified ragi cultures.
Crop Management					
11.	Dr.N. Tamilselvan, Prof. (Agron.) Dr.R. Sivakumar, AP (CRP) Dr.M. Vijayakumar AP (SS&AC)	**DCM/CBE/AGR/RGR/2016/001:** Evaluation of different redgram based strip intercropping systems under rainfed condition **(Action Plan project)**	Jun 2016 to May 2019	Among the different land configuration and intercropping system the Ridges and Furrow and Redgram + Black gram (4:5) based strip intercropping recorded maximum yield of 440 kg ha^{-1} at harvest stage, while the intercropping system Redgram + Groundnut (4:5) treatment recorded maximum Groundnut yield of 848 kg ha^{-1}. Statistically analyzed yield data were	This action plan project may be completed and completion report may be submitted

				presented in CSM-Pulses 2018. The preparation of completion report is in progress.	
12.	Dr. N. Tamilselvan Prof. (Agron.) Dr.M.Vijayakumar AP (SS&AC)	**DCM/ATL/AGR/SMM/2016/002:** Samai based cropping system for rainfed agro ecosystem **(Action Plan Project)**	Jun 2016 to May 2019	Adoption of 8:2 ratio samai and redgram intercrop recorded highest soil available nitrogen (280 kg ha^{-1}), which was comparable with 6:2 ratio samai and redgram intercrop system As a case of seed yield, adoption of samai and redgram (4:1) combination recorded higher seed yield (620 kg ha^{-1}), with yield improvement of 27% followed by 8:2 combination. Statistically analysed yield data were presented in CSM-Millets 2018. Samai and redgram sowing was taken up on 11.09.2018 and the samai crop was harvested on 07.01.2019 and redgram was harvested on 29.01.2019. Biometric observation was recorded and statistical analysis is in progress.	This project may be closed after presentation in CSM 2019 and work out LER. Presentation should be included with system economics along with combination of crops.
13.	Dr. N. Tamilselvan, Prof. (Agronomy) Dr.M. Vijayakumar AP (SS&AC)	**DCM/TVM/AGR/GNT/2016/001:** Crop establishment suitable intercrop for semi spreading Groundnut under rainfed condition **(Action Plan Project)**	Jun 2016 to May 2019	Compartmental bunding recorded higher groundnut pod yield (696 kg ha^{-1}) and among the intercrop black gram combination recorded higher yield of 751 kg. CB and cowpea intercrop increase soil available Nitrogen, Phosphorus and Potassium, which was comparable with CB and redgram intercrop system. Statistically analysed yield data were presented in CSM-Oilseeds 2018. Current season Groundnut and intercropping sowing was taken up	Rainfall Use Efficiency to be worked out. Compatible intercrop to be worked out with main crop for getting good yield. Work out LER and the sowing machine to be displayed in CSM on Oillseeds 2019. The result to be presented with pooled analysis in CSM Oilseeds 2019.

				on 12.09.2018 and the crop was harvested analysis of post-harvest soil properties is in progress.	
14.	Dr.N. Tamilselvan Professor (Agronomy) Dr.R.Thiyagarajan, AP (FMP)	**DCM/CBE/AGR/PUL/2016/001:** Relook on sowing time and sowing method for enhancing the winter pulses productivity in rainfed ecosystem **(Action Plan Project)**	June 2016 to May 2019	Current season horse gram (Paiyur2) consequent sowing were taken on 24th Oct., 01st Nov, 08th Nov, 16th Nov, 23rd Nov and 29th Nov, 2018. All the date of sowing of Horsegram was harvested. Biometric observation recorded and statistical analysis is in progress.	The result to be presented with pooled analysis in CSM Pulses 2019.
15.	Dr. R. Sivakumar, Asst. Prof. (CRP)	**DCM/PAI/CRP/VEG/2016/001:** Physiological manipulation of source sink relationship in tomato	Jun 2016 to Jun 2018	Completion report was prepared and resubmitted to the Director of Research through the Director (CM), TNAU on 07.01.2019 after necessary corrections were carried out as per the RPAC comments.	The project to be completed and completion report to be submitted through DCM for approval
16.	Dr. R. Sivakumar, Asst. Prof. (CRP)	**DCM/PAI/CRP/RAG/2015/001:** Physiological approaches to increase the productivity of finger millet under rainfed conditions.	July 2015 to Mar 2018	Completion report was prepared and submitted to the Director of Research through the Director (CM), TNAU on 28.01.2019.	The project to be completed and completion report to be submitted through DCM for approval
17.	Dr. R. Sivakumar, Asst. Prof. (CRP)	**DCM/PAI/CRP/SMM/2018/001:** Physiological manipulation of source and sink in samai	Aug 2018 to July 2020	Approval of the project was received on 24.12.2018 from the Director of Research, TNAU. Sowing was taken at field No. A12 on 18.01.2019. Verification of compatibility of PGRs with nutrients was completed as per the remarks given by the Director (Crop Management), TNAU, Coimbatore. Foliar spray of nutrients and PGRs was carried out. The crop is in flowering stage.	Midterm correction to be carried out for modification of treatments after discussion with DCM

18.	Dr. R. Sivakumar, Asst. Prof. (CRP)	**DCM/PAI/CRP/HGM/2019/001:** Physiological manipulation of source and sink in horsegram	Jan 2019 to Jan 2021	Approval of the project was received on 31.01.2019. The experiment will be started during Kharif season (June 2019) as per the project proposal.	Midterm correction to be carried out for modification of treatments after discussion with DCM
19.	Dr. R. Sivakumar Asst. Prof. (CRP) Dr.M. Vijaykumar Asst. Prof. (SS & AC)	**DCM/PAI/CRP/HGR/2018/CP 106:** Development of foliar formulation for enhancement of yield in horse gram under irrigated and rainfed environment	2018 to 2020	Estimation of growth and physiological parameters were completed. Crop was harvested and recoding of yield parameters is under progress.	Zn may be added in the treatments and a product may be developed for foliar spraying in horsegram
20.	**PI:** Dr. R. Sivakumar Asst. Prof. (CRP) **Co-PI:** Dr. P. Jeyakumar Prof. (CRP)	**EID/DCM/CBE/CRP/2017/R009** Studies on physiological and molecular basis for action of bio-stimulant *Vasicine* in Tomato	01.04.2017 to 31.03.2019	Third experiment was completed as a confirmation trial. Statistical analysis for growth, physiological and biochemical parameters, and confirmation by molecular work were completed. Report preparation is under progress.	Completion report to be submitted.
21.	**PI:** Dr. R. Sivakumar Asst. Prof. (CRP) **CO PI:** Dr. T. Anand	**TANII/CPBG/CBE/MIL/2016/D001** TANII: Revitalization of millets for nutritional security and enhanced productivity	2016-2020	Two trainings, 100 FLDs, 20 acres seed production and two field days were carried out. Processing machineries were purchased and handed over to the farmers group.	Make one minute video on the performance of ragi variety, Paiyur-2
Plant Protection					
22.	Dr. T. Anand Asst. Prof. (Plant Pathology)	**CPPS/PAI/PAT/VEG/2015/003:** Chemical and biological management of tomato early blight caused by *Alternaria solani* (Ellis and Martin) Jones and Grout.	01.06.15 to 31.05.18	Laboratory studies and two season field experiments were completed. The findings of the project have been proposed for on farm trials (2018-19). The manuscript (project findings) has been submitted in the research journal. The project completion report is to be submitted after publication.	Proposal for change of project leader to be submitted within 15 days. Since the project leader Dr.T.Anand, AP(Pl.Path.) transferred Close the project and Completion report to be submitted by Dr.Indra, AP (Pl. Path.,)

23.	Dr. T. Anand Asst. Prof. (Plant Pathology)	**CPPS/PAI/PAT/FRU/2016/001:** Management of gummosis and die-back of mango through fungicides and cultural practice	01.10.16 to 30.09.19	Laboratory studies and first season field trial were completed. Second season field experiment is in progress.	Proposal for change of project leader to be submitted within 15 days. Since the project leader Dr.T.Anand, AP(Pl.Path.) transferred Close the project and Completion report to be submitted by Dr.Indra, AP (Pl. Path.,)
24.	Dr. T. Anand Asst. Prof. (Plant Pathology)	**CPPS/PAI/PAT/SMM/2016/001:** Management of finger millet blast using biocontrol agents and fungicides.	01.10.16 to 30.09.19	Two field experiments were carried out in two different locations and the findings were proposed for OFT (2018-19). One On Farm Trial has been completed at RRS, Paiyur during 2018-19.	Proposal for change of project leader to be submitted within 15 days. Since the project leader Dr.T.Anand, AP(Pl.Path.) transferred Close the project and Completion report to be submitted by Dr.Indra, AP (Pl. Path.,)
25.	Dr. T. Anand Asst. Prof. (Plant Pathology)	**CPPS/PAI/PAT/FRU/2018/CP176:** Bioinoculants augmented disease free seedling production in mango	01.11.18 to 31.10.20	The administrative sanction order has been approved on 04.02.2019. Purchase of laboratory chemicals and other items required for conducting field trials is in progress. The pathogens (*Sclerotium rolfsii* and *Macrophomina phaseolina*) associated with mango seedling rot were isolated.	Proposal for change of project leader to be submitted within 15 days. Since the project leader Dr.T.Anand, AP(Pl.Path.) transferred New URP to be submitted for approval within 15 days by Dr.Indra, AP (Pl. Path.,)
26.	Dr.P.Senthilkumar Asst Prof (Plant Nema.)	**CPPS/PAI/NEM/VEG/2015/001:** Integrated approach for the management of root knot nematode, *Meloidogyne incognita* in tomato under precision farming system	Jun 2015 to May 2018	Completion report preparation under progress	Communication to be sent to Dr.P.Senthilkumar Asst Prof (Plant Nema.) the project leader to submit the completion report and

					intimate to Director CPPS and Director of Research
27.	Dr.P.Senthilkumar Asst Prof (Plant Nema.)	**CPPS/PAI/NEM/VEG/2015/002:** Assessment and management of root knot nematode (*Meloidogyne incognita)* and bacterial wilt (*Ralstonia solanacearum*) complex in brinjal at North Western zone of Tamil Nadu	June 2015 to May 2018	Completion report preparation under progress	Communication to be sent to Dr.P.Senthilkumar Asst Prof (Plant Nema.) the project leader to submit the completion report and intimate to Director CPPS and Director of Research
28.	Dr.P.Senthilkumar Asst. Prof. (Pl. Nemat.)	**TN-IAMP** Tamil Nadu Irrigated Agriculture Modernization Project (TN-IAMP) phase I	2017 to 2023	Harvest completed during November to December 2018 and documentation under progress. Estimate prepared as per the target work order issues and DD received for 2.80 ha. Survey under progress with help of Jain field staff. Harvest completed during to October November 2018 and documentation under progress. Survey under progress with help of Jain field staff. Survey under progress with help of Jain field staff .Estimate prepared for 1ha. Harvest completed during November to December 2018 and documentation under progress. Crop under maturity stage. Beneficiaries identified and field ready for sowing and awaited for optimum rainfall and season.	Proposal for change of project leader to be submitted to Director WTC, Nodal officer for TN-IAMP Project
Horticulture					
29.	Dr.L.Jeeva Jothi Professor (Hort)	**HCRI/PAI/HOR/FRU/2019/001:** Studies on the production of quality rootstocks in selected varieties of mango (*Mangifera indica* L.)	Jan 2019 to Dec 2021	The project approval has been received. The project work will be initiated as and when the mango nuts are available.	Project may be continued
30.	Dr. S. Srividhya Asst Prof. (Horti)	**HCRI/PAI/HOR/FRU/2018/002:** Studies on screening of polyembryonic	Feb 2018 to	Letter correspondence to the KVK, Wayanad, College of Agriculture,	Collection of poly embryonic mango

	Dr. R. Sivakumar Asst Prof (CRP)	mango (*Mangifera indica* L.) rootstocks against drought stress	Dec 2020	Padannakad, Kasargode for the availability and collection of poly embryonic fruits requested. Availability confirmed in Wayanad and the rootstocks will be collected in the ensuing month. Drought stress will be initiated.	rootstocks may done. An exclusive field may be identified for maintaining the collected poly embryonic mango rootstocks project may be continued.
31.	Dr.S. Srividhya, Assistant Professor (Horticulture)	**HCRI/PAI/HOR/FRU/2018/001:** Studies on the yield and quality attributes in the Paclobutrazol treated fields of main and off season mango (*Mangifera indica* L.) cv. Bangalora	Aug 2018 to Dec 2021	The main season trees were given the treatment schedule of third foliar spraying at the field selected at Kurugapatti village, Uthangarai Taluk. The main season trees are in flowering stage and marble stage fruits. Maximum inflorescence recorded in T_7. In the off season trees, the fruits are ready for harvest. The yield parameters will be recorded. The chlorophyll index using SPAD meter were recorded in the off season trees and main season trees.	After carrying out the experiment for two years the results may be tested in KVK's through OFT programme.
32.	Dr.S.Srividhya Assistant Professor (Horticulture) Dr. R. Sivakumar Assistant Professor (Crop Physiology) Dr. M. Vijaykumar Assistant Professor (SS & AC)	**HCRI/PAI/HOR/FLO/2018/CP107** Development of specific foliar formulation for improving yield and quality in Jasmine (*Jasminum sambac).* **(Core Project-Phase II)**	December 2018 to September 2020	The field was selected at Thimmapuram village of Kaveripattinam block in the farmer Mr. Govindan S/o Venkatraman field. Pruning of Jasmine was done on December 2019. The treatment spray (First spray) was carried out on 15.02.2019. The observations on chlorophyll index recorded in the treatmental plants.	The project may be continued.

General recommendations:

Director (CPBG)

- OFT in horsgeram and mochai to be continued for next year
- Sorghum land races to be deposited in Dr.Ramaiah gene bank, TNAU, Coimbatore and register in NPBGR
- Speedy action may be taken to replace Paiyur 2 variety since there is high demand for long duration variety according to weather regimes, altitude and geographical pattern of the districts
- Co 15 paiyur variety to be popularized in this zone
- Exhibition arrangement may be done
- Statistical analysis to be done for all MLT's

Director (Crop Management)

- All Action plan projects are to be completed and completion report to be submitted through DCM in consultation with the main centre of the projects.
- All new projects should be presented in RPAC and after thorough discussion, the works to be initiated
- Proposal for new URP's to be submitted by Dr.G.Guru, Assoc.Prof (Agron.) on mechanized cono weeder in SRI and integrated weed management in finger millet and to be presented in RPAC for approval
- The data on previous URP project conducted by Dr.G.Guru, Assoc.Prof.(Agron.) to be submitted to DCM for perusal, justify the data recorded and submit a report to Director of Research through DCM
- Rice transplanter available at TCRS Yethapur may be utilized for conduct of field trial.
- Automatic Weather Station should be maintained in working condition

Director (NRM)

- Digitalize the Soil Science laboratory
- Farm appraisal data may be done and characterize
- Digital mapping with GPS reading may be done/Soil Resource Inventory data may be sent at the earliest
- STCR based application may be followed in all fields
- One URP project in exclusively in Soil Science to be submitted for RPAC approval

Director (CPPS)

- Involve plant protection scientist in all project works
- Change of project leader to be submitted within 15 days for Pathology projects through Director CPPS and a new URP in mango may be proposed for RPAC approval
- Proposal for engaging JRF for bio inoculants production may be submitted
- Training on Mushroom production may be taken up regularly
- Honey bee activity to be strengthened at the Station

- A proposal for conducting a mango seminar may be submitted for funding with a budget of 3 lakhs
- Two new URP projects exclusively on Entomological aspects to be submitted by the Professor (Entomology) to Director (CPPS) for RPAC approval
- Close monitoring for Fall army worm to be done by the Professor (Entomology) and remedial measures to be undertaken and report to the authorities.
- A new URP on seed borne pathogen studies to be prepared and submitted by Asst.Prof. (Pl.Path.)

Director of Research

- Rainfall data of this zone may be computerized
- To manage labour shortage and for jeep driving go for engaging contractual services as per TNAU norms.
- Painting of all the buildings (cream colour) to be done and update the field boards and maintain field labels neatly
- All the trees to be labeled with botanical name and family
- VAM to be promoted

Director (CPBG)

Director (Crop Management)

Director (NRM)

Director (CPPS)

Director of Research