

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 (<i>Sorghum bicolor</i>) 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.

3.	Dr. K. Geetha Professor (PBG)	<p>CPBG/PAI/PBG/BSP/2018/001: Maintenance and production of nucleus and breeder seeds of rice, horsegram and millet varieties released from RRS, Paiyur.</p>	Dec 2018 to Dec 2023	<p>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 $\mu\text{mol m}^{-2}\text{s}^{-1}$), high Proline content (394 μgg^{-1}) and high soluble protein content (14.4 mg g^{-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.</p>	
		<p>I Breeder seed production: a.Paddy Co 43 breeder seed production: 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.</p> <p>b.Ragi Paiyur 2 breeder seed</p>			<p>Project may be continued. Most care to be taken to maintain purity in breeder seed production by the Project Leader.</p>

	<p>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.</p> <p><u>c.Horsegram Paiyur 2 breeder seed production:</u> 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.</p> <p><u>d.Ragi Co 15 breeder seed production:</u> 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.</p>
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