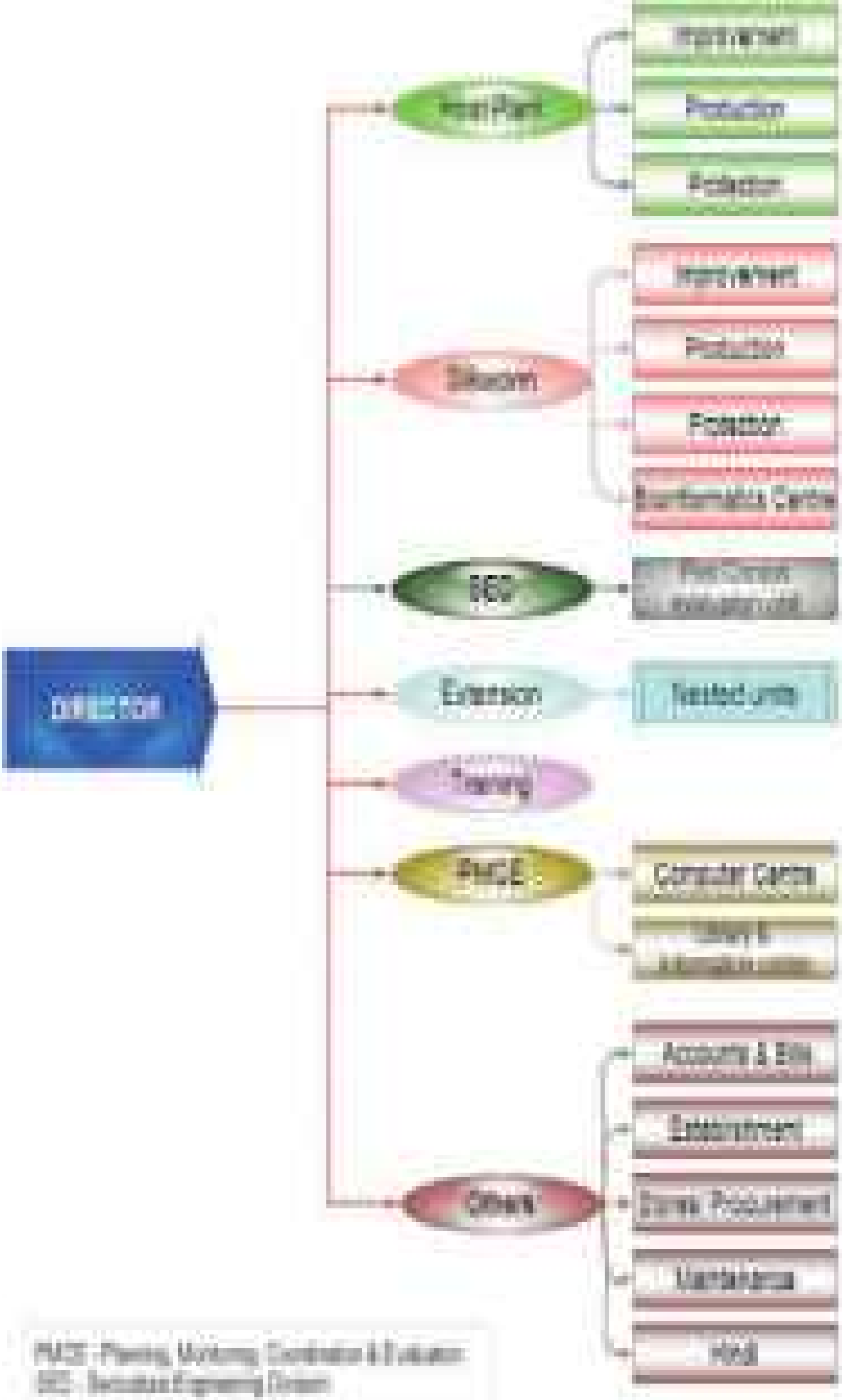
के रे अ प सं, मैसूरु

CSRTI-Mysuru

वार्षिक प्रतिवेदन
Annual Report
2018-19





वार्षिक प्रतिवेदन
ANNUAL REPORT
2018–19

केंद्रीय रेशम उत्पादन अनुसंधान एवं प्रशिक्षण संस्थान
Central Sericultural Research and Training Institute
[illegible], Pin – 570 008
Central Silk Board, Ministry of Textiles, Government of India, Mysuru – 570 008

CONTENT

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

of soil health in producing good mulberry crops. After further studies, useful components of healthy mulberry plots should be analysed and passed on to farmers' fields.

In Basic Seed Farms of Karnataka and Tamil Nadu, the incidence of silkworm diseases viz., grasserie, flacherie and muscardine were contained within economic threshold level. It is interesting to note that no [illegible] either from Karnataka or Tamil Nadu. In Karnataka, [illegible] field level problems occurred during silkworm rearing were technically solved. Adoption testing of CSRTI-Mysuru and [illegible] were conducted [illegible].

Effective monitoring resulted in production of [illegible] quantity of [illegible] through [illegible] Cocoon Promotion Programme in [illegible] sericulture clusters of Karnataka, Andhra Pradesh, Tamil Nadu, Telangana and Maharashtra [illegible] average cocoon yield of [illegible] kg per 100 dfls.

[illegible] stakeholders were sensitized with awareness on new technologies through [illegible] extension communication programmes in silkworm rearing, mulberry and silkworm disease management and quality cocoon production. Besides, Sericulture Farmers' Workshops were organized in the [illegible] CSRTI-Mysuru, [illegible] and [illegible] farmers were enlightened with improved mulberry sericulture technologies. At CSRTI-Mysuru [illegible] beneficiaries were trained under Capacity Building and Training (CBT) through Technology Orientation Programme (TOP) and Farmers Skill Training (FST). [illegible] participants were benefitted through need based training programmes in Intensive Bivoltine Technology, Chawki Rearing, Bio Control Agent production, integrated pest & disease management etc.

[illegible] Asia Pacific Congress of Sericulture and Insect Biotechnology was held from [illegible] March 2019 at Mysuru, with a theme [illegible]. [illegible] scientists from over [illegible] countries have participated and presented [illegible] research abstracts.

[illegible] dissertations works for three months were carried out as part of their course fulfilment. The commercial chawki rearing centre of the institute reared [illegible] dfls and distributed to over [illegible] rearers who recorded an average yield of [illegible] kg/100 dfls.

CSRTI-Mysuru continued to be the leading institution in resolving many problematic occurrences in sericulture practices and duly visited the sericulturists' field in time of their need. In future also CSRTI-Mysuru will stand by the motto of serving the sericulture fraternity in their routine endeavours.

CSRTI-Mysuru being a premier national institute mandated with R&D activities in Sericulture is continuously searching better approaches to the problems posed before the silk industry in India. The institute has been successfully working to maximize production of mulberry and silkworm cocoons per unit area by synchronizing manpower, technology and management practices. The CSRTI has a vision for the rapid growth and development of Sericulture in order to increase living standard of Sericulturists through more income generation.

Dr. [illegible]

Director

बैठक के समय का चयन और बैठक की अवधि

बैठक किस समय आयोजित की जाए, यह बैठक के उद्देश्य पर निर्भर करता है। यदि बैठक का उद्देश्य किसी समस्या के समाधान के लिए विचार-विमर्श करना है तो बैठक का समय ऐसा होना चाहिए जब सभी सदस्य उपस्थित हो सकें। यदि बैठक का उद्देश्य किसी विषय की जानकारी देना है तो बैठक का समय ऐसा होना चाहिए जब अधिक से अधिक लोग उपस्थित हो सकें। बैठक की अवधि भी उसके उद्देश्य पर निर्भर करती है। यदि बैठक का उद्देश्य किसी विषय की जानकारी देना है तो बैठक की अवधि कम होनी चाहिए। यदि बैठक का उद्देश्य किसी समस्या का समाधान करना है तो बैठक की अवधि अधिक होनी चाहिए। बैठक की अवधि इस बात पर भी निर्भर करती है कि बैठक में कितने लोग उपस्थित होंगे। यदि बैठक में अधिक लोग उपस्थित होंगे तो बैठक की अवधि कम होनी चाहिए। यदि बैठक में कम लोग उपस्थित होंगे तो बैठक की अवधि अधिक हो सकती है।

बैठक का समय और अवधि निर्धारित करने के बाद बैठक की सूचना सभी सदस्यों को भेजी जानी चाहिए। सूचना में बैठक का समय, स्थान, उद्देश्य और एजेंडा स्पष्ट रूप से लिखा होना चाहिए। सूचना सभी सदस्यों को समय पर मिल जाए, इसके लिए पर्याप्त समय पहले सूचना भेजी जानी चाहिए। सूचना भेजने के बाद बैठक के दिन से पहले सभी सदस्यों को एक बार याद दिलाना भी उपयोगी होता है। बैठक के दिन सभी सदस्यों को समय पर उपस्थित होना चाहिए। बैठक में उपस्थित होने के लिए सदस्यों को पर्याप्त यात्रा समय भी देना चाहिए। बैठक में उपस्थित होने के बाद सदस्यों को बैठक की कार्यवाही में सक्रिय रूप से भाग लेना चाहिए। बैठक में सक्रिय रूप से भाग लेने के लिए सदस्यों को बैठक से पहले एजेंडा और संबंधित दस्तावेजों का अध्ययन करना चाहिए। बैठक में उपस्थित होने के बाद सदस्यों को बैठक की कार्यवाही में सक्रिय रूप से भाग लेना चाहिए। बैठक में सक्रिय रूप से भाग लेने के लिए सदस्यों को बैठक से पहले एजेंडा और संबंधित दस्तावेजों का अध्ययन करना चाहिए।

बैठक बैठक किस समय आयोजित की जाए, यह बैठक के उद्देश्य पर निर्भर करता है। यदि बैठक का उद्देश्य किसी समस्या के समाधान के लिए विचार-विमर्श करना है तो बैठक का समय ऐसा होना चाहिए जब सभी सदस्य उपस्थित हो सकें। यदि बैठक का उद्देश्य किसी विषय की जानकारी देना है तो बैठक का समय ऐसा होना चाहिए जब अधिक से अधिक लोग उपस्थित हो सकें। बैठक की अवधि भी उसके उद्देश्य पर निर्भर करती है। यदि बैठक का उद्देश्य किसी विषय की जानकारी देना है तो बैठक की अवधि कम होनी चाहिए। यदि बैठक का उद्देश्य किसी समस्या का समाधान करना है तो बैठक की अवधि अधिक होनी चाहिए। बैठक की अवधि इस बात पर भी निर्भर करती है कि बैठक में कितने लोग उपस्थित होंगे। यदि बैठक में अधिक लोग उपस्थित होंगे तो बैठक की अवधि कम होनी चाहिए। यदि बैठक में कम लोग उपस्थित होंगे तो बैठक की अवधि अधिक हो सकती है।	**सूचना** • बैठक में किस समय, स्थान पर मुलाकात करनी है, अनुपालनकर्ता को यह सूचित करना कि वह किस उद्देश्य से बैठक में भाग ले रहा है। • सदस्यों द्वारा पेशेवरों का परिचयकरण • पेशेवरों का परिचय • उद्देश्यों, उद्देश्यों के आधार पर अनुपालन तथा के अनुपालक तथा उद्देश्य • परिचय • अनुपालन कार्यकर्ता को यह भी दिए जाने के लिए की आवश्यकता • उद्देश्य तथा के अनुपालन • तथा एकीकृत एवं परिचय • अनुपालन का विषय कार्यकर्ता और विषय उद्देश्य पहचानें का मूल्यांकन • बताने और दिशा में बैठक अनुपालन के विषय प्रोजेक्ट के बाद अनुपालन अनुपालन

तकनीकी शब्दावली : व्यवहार

शब्दों के प्रयोग के आधार पर उनके विभिन्न प्रकार किए जा सकते हैं। इनमें से एक प्रकार तकनीकी शब्दावली का है। तकनीकी शब्दावली के अंतर्गत वे शब्द आते हैं जो किसी विशेष विषय या क्षेत्र में प्रयुक्त होते हैं। ये शब्द विशेष अर्थ में प्रयुक्त होते हैं। इन शब्दों का प्रयोग उस विषय या क्षेत्र के बाहर बहुत कम होता है। तकनीकी शब्दावली के संबंध में यह भी कहा जाता है कि इसका प्रयोग केवल उस विषय या क्षेत्र के विशेषज्ञों के बीच ही होता है। इसका प्रयोग सामान्य व्यक्ति नहीं करते

मैं अपने दिमाग़ में कुछ सवाल लेकर आई हूँ और मैंने सोचा शायद आपसे इस संबंध में कुछ मदद मिल जाए।

सवालों की सूची

- जब हमारा विवाह हुआ था तब हमारे परिवार की आय कितनी थी? और आज कितनी है?
- पहली संतान के जन्म के समय आपने क्या सोचा था?
- दोनों बेटियों के जन्म के समय आपने क्या सोचा था?
- पहली बेटी के जन्म के समय आपने क्या सोचा था?
- पहली बेटी के जन्म के समय आपने क्या सोचा था?
- आज आपकी तीन संतानों में किसके साथ आपका सबसे अधिक लगाव है? और क्यों?
- क्या आपने कभी अपनी संतानों में किसी भेदभाव की भावना को महसूस किया है

ABOUT CSRTI MYSURU

[illegible]

[illegible]

Vision	
[illegible]	
Mission	**Objectives**
[illegible]	• [illegible] • [illegible] • [illegible] • Transfer of Technology • [illegible] • Training • [illegible] • [illegible] • Disease forecasts and forewarning • [illegible] • [illegible]

Organization Setup

[illegible]

[illegible] and for undertaking the research activities. The Director monitors the progress of R&D activities of Institute and interact online with the support of Planning, Monitoring, Coordination and Evaluation Cell. [illegible] regularly conducts review meetings, [illegible] and [illegible] to [illegible] have been brought out so far. In addition to large number of technical and research papers published in leading national and international journals, the institute has the distinction of publishing Indian Journal of Genetics, a biennial journal of international repute and Genetic Resources Newsletter since its inception.

Innovation approach

CRP1 Division has a broader mission of addressing research linkages, Innovative Research Options (IRO), research incentive Centers (IRC) and Outcome Linked Projects (OLP) to facilitate validation and translation of laboratory findings effectively to the field. Farmers are involved in major activities and some of activities carried out in region specific adaptive and applied research. Technology tools are also developed to suit the regional requirements besides providing training to farmers and grassroot level extension staff. KVKs and outscales share the major responsibility of technology transfer to the beneficiaries and also provide methodological inputs and support extension interventions coordinated by ATIC and a mission oriented extension programme and clinics are in place for the promotion of location specific technologies along with Market Intelligence and Weather Analysis. Efficient transfer of technologies is also facilitated by the Division of Agricultural Extension of the Institute.

Training Centre

CRP1 Division is recognized as Regional Centre for conservation of Essential human resources in Livestock sectors at international and national level. CRP1 Division also conducts training programmes sponsored by DST, DBT and Ministry of Tribal Affairs, GoI, etc. for the users, academia and technological empowerment of the rural area, under privileged and women communities. Besides aspiring to the felt needs of the users, dissemination of technology is the necessity. CRP1 Division also conducts production oriented training programmes for entrepreneurship development through various organizations such as ICAR and University of Animal Fishery Sciences, GoI of India (UAFS). The training hub ensures well-equipped classrooms and other programmes are managed by qualified faculty. The Institute hostels can accommodate about 150 persons.

Infrastructure Facilities

- Well-equipped laboratories, modern gadgets and animal houses to serve as a research unit
- Large cattle, poultry houses for technology validation and efficiency testing
- Model dairy farm, sheep cattle (CSS) to promote the demand of CRP
- Engineering (Tractor) and machinery facilities to support designing, development and fabrication of machines / equipments
- Video conference studio to ensure faster communication and efficient transfer of technology for effective interaction with the field units, [illegible] organizations
- Computer centre providing high speed connectivity to all through [illegible] with [illegible] for support
- Data Communication Centre (DCC) [illegible] CRP1 [illegible] and [illegible] national services
- Library services [illegible] books, [illegible] volumes of scientific journals, [illegible] journals, [illegible] literature, technical reports and [illegible] database searching

[illegible]

[illegible]

[illegible]

[illegible]

1) [illegible]

2) [illegible]

3) [illegible]

4) [illegible]

5) [illegible]

6) [illegible]

7) [illegible]

8) [illegible]

9) [illegible]

10) [illegible]

न्यास अनुसार होगी जो ऐसे न्यास को लागू होता, जिसके भंग के लिए वह अभियुक्त किया गया है, अथवा जो उसके विधिपूर्ण संचालन के लिए आवश्यक था ।

(ख) लाभ जो वह स्वयं या किसी अन्य व्यक्ति को अनुचित रूप से अभिप्राप्त करता है ।

(ग) अनुचित नुकसान जो न्यास के किसी ऐसे व्यक्ति को हुआ है, जिसके लाभ के लिए न्यास का सृजन हुआ था ।

(घ) किसी संपत्ति के संबंध में "बेईमानी से दुर्विनियोग करना" या "संपत्ति का बेईमानी से दुर्विनियोग करना" से वह संपत्ति के संबंध में किया गया कोई भी ऐसा अपराध अभिप्रेत है, जो इस संहिता के अधीन दंडनीय है ।

(ङ) किसी व्यक्ति के संबंध में यह कहा जाता है कि वह किसी विषय के बारे में विशेषज्ञ है, यदि उसे उस विषय के बारे में ऐसी विशेष जानकारी या अनुभव है जो उसे उस विषय पर राय बनाने के योग्य बनाती है, जिसके बारे में यह कहा जाता है कि वह उस विषय के बारे में विशेषज्ञ है ।

(च) किसी व्यक्ति के संबंध में यह कहा जाता है कि उसे किसी विषय के बारे में उचित जानकारी है, यदि उस विषय के बारे में उसके पास ऐसे कारण हैं, जो उस विषय के बारे में उसके विश्वास को युक्तियुक्त बनाते हैं, यदि वह उस विषय के बारे में सद्भावपूर्वक कार्य करता है ।

(छ) कोई व्यक्ति किसी अन्य व्यक्ति के अभिकर्ता के रूप में कार्य करता है, जब वह उस अन्य व्यक्ति की ओर से या उसके प्रतिनिधित्व में कार्य करने के लिए सहमत हो गया है, या जब उस अन्य व्यक्ति के अभिकर्ता के रूप में कार्य करने के लिए सहमत हो गया है, और

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

Highlights of Achievements

[illegible] experiments conducted in multi-location and different breeding cycles, evaluation and evaluation trials of hybrids, advanced and [illegible] activities resulted in developing hybrid/genotypes suitable for the needs of mulberry sericulture farmers in the states of Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Telangana, Maharashtra and Madhya Pradesh. The salient achievements of CSRTI Mysuru are as follows:

Mulberry Improvement, Production and Protection

- In order to identify superior mulberry genotypes having adaptive, [illegible] nutritional traits, assessment and release of [illegible] of mulberry genotypes with different characteristics were evaluated and [illegible] yield ranged from [illegible] t/ha/yr to [illegible] t/ha/yr and [illegible] leaf. Out of 37 test genotypes, 11 [illegible] and [illegible] genotypes showed significantly higher leaf yield over the check varieties viz., S1, S13, Kajalu and some [illegible] genotypes.
- For optimization of rejuvenation protocol using cuttings and [illegible] seedlings of S9 mulberry, pre-harvest combination containing 2.5 mg/L TDZ showed rejuvenation [illegible] of 83% and 81% from sub-lateral and [illegible] respectively. The [illegible] shoots were transferred to rest enhancing shoot [illegible] and [illegible] with medium with half [illegible] mg/L) showed maximum multiple shoots, bud induction and regeneration of shoots. Half strength MS medium yielded only harmony, additional shoots maximum rooting of the regenerated shoots. Plants of [illegible] genotypes [illegible] 10 MMV genes and 04 gene from University of Hyderabad. Genetic transformation experiments are being continued using morphologically [illegible] explants of mulberry shoots and leaf disc explants of [illegible].
- To evaluate and identify superior mulberry hybrids with drought adaptive traits under rainfed and sub-rainfed irrigated conditions 216 [illegible], 42 mulberry hybrids with more than 90% rooting percentage have been multiplied in nursery, [illegible] subsequently transplanted in experimental plots for evaluation.
- Four more mangrove [illegible] have been recorded from [illegible] and [illegible] (Mangrove Herbarium) [illegible] containing 300 plant and 2000 [illegible] plants from University of Agricultural Sciences, Bangalore, Bandipur, Nagarhole and Bhadra wildlife [illegible] and [illegible] of mulberry cultivars.
- Evaluation of 30 [illegible] mulberry germplasm in four locations and [illegible] and [illegible] germplasm resistant to one [illegible] and [illegible] resistant germplasm for [illegible] were identified. Interspecific hybrids of [illegible] and [illegible] were developed.
- Validated the shoot rearing of 10 [illegible] silkworm breeds on mulberry germplasm for assessing their [illegible] Pebrine and [illegible] and [illegible] (CSR2, CSR4, CSR26, CSR27, CSR50, CSR51 and CSR502) silkworm hybrids [illegible] were found suitable for rearing programme for development of mapping population after confirmation.
- Rearing and record for [illegible] of more than 5.0 [illegible] of layings and [illegible] cocoons were recorded. [illegible] matrix for [illegible] quality of mulberry was developed. The [illegible] multilocation trial have screened more than 10 [illegible] evaluation trials for S1 and S9 mulberry varieties and is under [illegible].

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]

- [illegible] genotypes (six multivariate and six multivariate) released from different [illegible] [illegible] were characterized for five qualitative traits and one quantitative trait, a wide range of diversity was observed for all the characters studied. The study could be used for association mapping to successfully [illegible] in future breeding programmes.

- A Field Studies (FS) [illegible] was evaluated with maximum shell weight (2.23g), shell ratio (37.33%), filament length (3.82 inches), ovary percentage (88%), [illegible] silk recovery (84.72%), maximum (88%), kernels (13.2g/ft), elongation (.32%) and [illegible] across [illegible] showing improvement of 82% in filament length, 28% in [illegible] silk recovery, 10% in [illegible] shell and 21% in elongation percentage in comparison to existing [illegible] hybrid also showed improvement in shell weight (1.44 kg), [illegible] shell ratio (37.33%), filament length (3.82 inches), ovary [illegible] (88%) and [illegible] silk recovery (84.72%) [illegible] traits. The study [illegible] [illegible] evaluated [illegible].

- Improved [illegible] hybrid (CD) [illegible] was released and [illegible] in [illegible] of 163.33% by number, 82.5% [illegible] by weight, 14.88 kg [illegible] weight (1.8%), [illegible] shell weight (1.68%) and shell ratio of 14.8%. When [illegible] with [illegible] (SH2, SE-2007) [illegible] (Cob), [illegible] and [illegible] also showed improvement in shell weight (1.44%), [illegible] (1.1%), [illegible] by number (1.44%) and weight (14.44%), [illegible] (1.4%) and [illegible] [illegible] (1.4%) in comparison to [illegible] [illegible].

- A total of [illegible] [illegible] were [illegible] [illegible] and [illegible] [illegible] [illegible] ranging from 13.51 kg/1.25 dfs with [illegible] yield of [illegible] dfs/ha [illegible] [illegible] of 13.49 T/ha [illegible] [illegible] [illegible] [illegible] [illegible].

- [illegible] disease incidence in the form of [illegible] [illegible], [illegible] percentage for [illegible] factors and [illegible] [illegible] [illegible] and in [illegible] [illegible] [illegible] [illegible]. [illegible] factors and [illegible] [illegible] [illegible] were recorded [illegible] by [illegible] [illegible] [illegible] [illegible]

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Transfer of Technology

- [illegible]
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Capacity building & training

- [illegible]
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1. [illegible]
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- [illegible]

ii. **[illegible]** [illegible]

iii. **[illegible]** [illegible]

iv. **[illegible]** [illegible]

v. **[illegible]** [illegible]

vi. **[illegible]** [illegible]

vii. **[illegible]** [illegible]

viii. **[illegible]** [illegible]

ix. **[illegible]** [illegible]

ACTIVITIES REGARDING OFFICIAL LANGUAGE IMPLEMENTATION

During [illegible] Official Language policy was implemented [illegible] [illegible] compliance of important official language provisions [illegible] section 3(3) of official language act, Official Language Rule [illegible]. The progress in implementation of Hindi was reviewed [illegible] meetings of the Official Language Implementation Committee, and [illegible] Official Language [illegible] Hindi [illegible] Hindi [illegible].

The details of the [illegible] official language implementation [illegible] during the year under report is as follows:

1. **Compliance of Section 3(3):** All documents specified under section 3(3) of the Official Language Act [illegible] bilingual.

2. **Compliance of Rule 11:** All types of forms, letter heads, rubber stamps, signboards, name plates, visiting cards [illegible] bilingual [illegible].

3. **Hindi Correspondence:** [illegible]

4. **Organization of meetings of the Official Language Implementation Committee:** The progress of implementation of the official language was reviewed from time to time by conducting [illegible] meeting [illegible] quarter. During the year [illegible] official language implementation committee meetings were organized on [illegible] and follow up action was taken [illegible] decisions of the meeting.

5. **Organization of Hindi workshops:** [illegible]

6. **Implementation of Noting Drafting Incentive Scheme:** [illegible] the officers and staff of the Institute and its subordinate offices [illegible] in Hindi, Noting Drafting Incentive Scheme was implemented [illegible].

7. **Publications in Hindi:** Half yearly house magazine [illegible]

8. **Notification of the sub ordinate offices under 10(4) of the Official Language Rules:** The offices in which [illegible] of the staff have acquired working knowledge in Hindi are notified under 10(4) of the official language rules. [illegible] notified.

- [illegible] Organization of Hindi [illegible] Official Language [illegible] was organized from [illegible] during which [illegible] competitions [illegible] [illegible] competition [illegible] were organized. The winners of the competitions were awarded with first, second, third and consolation prizes. [illegible]
- [illegible] [illegible] quarterly progress report [illegible] [illegible] in all computers [illegible] Hindi, English and other Indian languages [illegible].
- [illegible] Official Language inspection [illegible] [illegible] regarding implementation of Official Language Policy and necessary suggestions and guidance were [illegible] accordingly. Besides, the Official Language Implementation Committee [illegible] of the institute. [illegible]
- [illegible] Official Language Orientation Programme: Official Language orientation programme was conducted on [illegible] at the institute and [illegible] officers [illegible] were made aware of the provisions of Official Language.
- [illegible] Hindi Books [illegible] were purchased for the library of the institute.
- [illegible] [illegible] for the training programmes.

Award: Official Language implementation award was conferred to the institute for the year [illegible] for excellent implementation of Official Language in the institute. The award was given away by the [illegible] [illegible] Official Language [illegible].

PROGRESS OF RESEARCH PROJECTS AND PROGRAMMES

MULBERRY BREEDING AND GENETICS LABORATORY

Ongoing research program:

[illegible]

Objective

- [illegible]
- [illegible]
- [illegible]

[illegible]

[illegible]

[illegible]

Major objective: [illegible]

Specific objectives

- [illegible]
- [illegible]
- [illegible]

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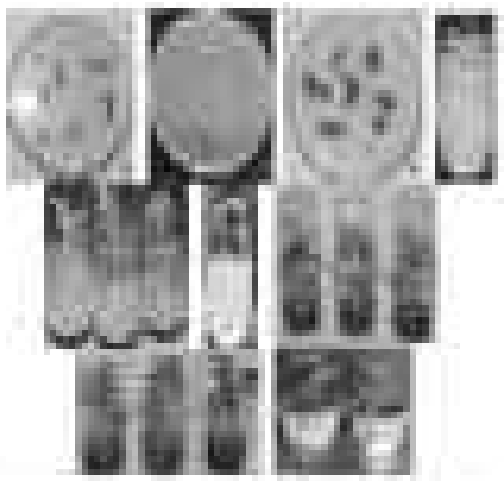

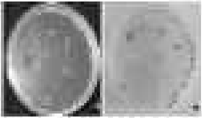

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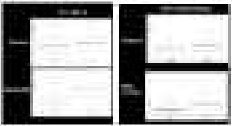

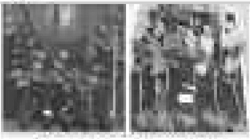

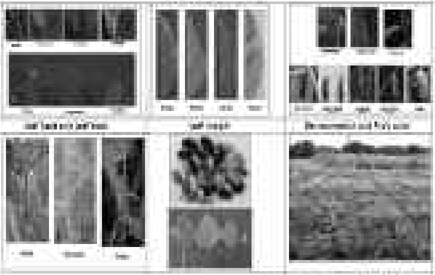

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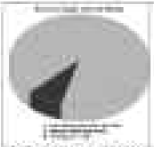

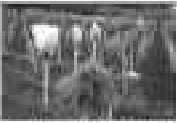

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Objectives:

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Objective: [illegible]

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Objectives:

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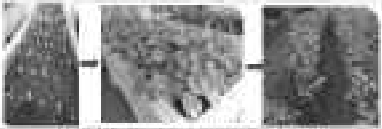

MULBERRY PHYSIOLOGY LABORATORY

[illegible]

Methodology

1. Biochemical analysis

[illegible]

2. Physiological parameters

[illegible]

Results

[illegible]				
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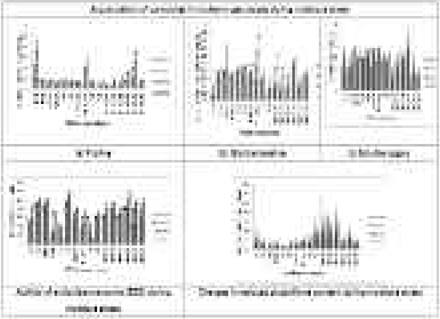

SOIL SURVEY AND CHEMISTRY

[illegible]

[illegible] Soil health cards for agricultural farmers in states of Karnataka, Tamil Nadu, Andhra Pradesh, Telangana, Kerala, Maharashtra and Madhya Pradesh [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	
State	[illegible]
Karnataka	[illegible]
Tamil Nadu	[illegible]
Andhra Pradesh & Telangana	[illegible]
Maharashtra	[illegible]
Total	[illegible]

[illegible]

State	[illegible]	[illegible]								
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Objectives:

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Objectives:

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[illegible]	pH	EC [illegible]	OC [illegible]	Av. [illegible]	Av. [illegible]	Av. [illegible]	Av. [illegible]	Av. [illegible]	Av. [illegible]	Av. [illegible]
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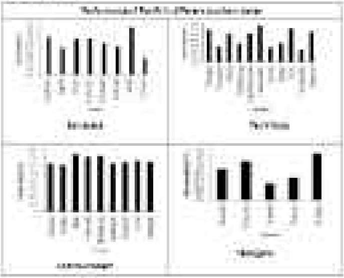
abstract to suggest that we aim to improve the [illegible] and [illegible] [illegible] [illegible]



[illegible]

[illegible] on growth parameters and [illegible] superoxide dismutase activities of [illegible] seedlings of [illegible]

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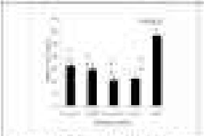

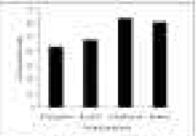

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	Average	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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The intended result of the project was to improve the identity of individual sequences with a reference gene sequence of Arabidopsis thaliana (AT) and to identify the sequences of the genes in the genome of Arabidopsis thaliana (AT) and to identify the sequences of the genes in the genome of Arabidopsis thaliana (AT). The sequences of the genes in the genome of Arabidopsis thaliana (AT) were compared with the sequences of the genes in the genome of Arabidopsis thaliana (AT). The sequences of the genes in the genome of Arabidopsis thaliana (AT) were compared with the sequences of the genes in the genome of Arabidopsis thaliana (AT).

Last quantitative double transgenic(s) of a gene gene

Arabidopsis thaliana (AT) was used as a model organism to study the function of the gene. The gene was found to be expressed in the leaves of the plant. The gene was also found to be expressed in the roots of the plant. The gene was found to be expressed in the flowers of the plant. The gene was found to be expressed in the seeds of the plant. The gene was found to be expressed in the fruits of the plant. The gene was found to be expressed in the stems of the plant. The gene was found to be expressed in the leaves of the plant. The gene was found to be expressed in the roots of the plant. The gene was found to be expressed in the flowers of the plant. The gene was found to be expressed in the seeds of the plant. The gene was found to be expressed in the fruits of the plant. The gene was found to be expressed in the stems of the plant.

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Tamilnadu Rice						
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Performance of rice varieties in [illegible]											
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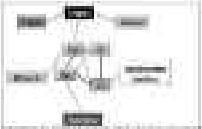

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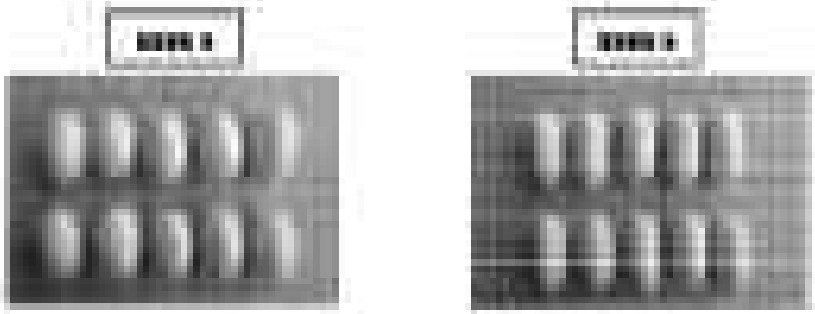
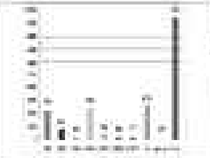
Distribution of new branches of income taxation assets (2017) 1 (2018) at the end of the [illegible] period submitted to CIR and examined for credit institutions (CIR).

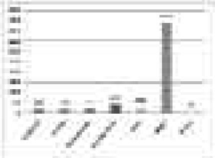
Banking and investment bank undertakings for the purpose of Tax Law, Article 1 (2) (b) 1 (Income taxes) Income taxes for banking, other financial institutions, insurance companies and other undertakings for the purpose of taxation of income from banking and other activities



[illegible] Investment [illegible] Annual Report and Financial Statements for the year ended 31 March 2018 Investment Trust plc Annual Report and Financial Statements for the year ended 31 March 2018 Investment Trust plc

Tax computation methods with income taxation [illegible] Tax Law, Article 1 (2) (b) 1 (Income taxes) Income taxes for banking, other financial institutions, insurance companies and other undertakings for the purpose of taxation of income from banking and other activities





[illegible] FISH FEED TRIAL AT [illegible] AQUACULTURE LABORATORY

Ongoing Projects

[illegible] Determination of Increased Dietary Needs of Rainbow Trout in Marine Aquaculture, [illegible] the month from [illegible] 2016 to [illegible] 2018

[illegible] is a [illegible] in [illegible] and is [illegible] by [illegible] and [illegible] in [illegible].

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Leading and leading performance of the provincial representative league cup championship season

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Executive transaction in the economic transaction, [illegible] the [illegible] commissioner [illegible] [illegible] season

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Objectives:

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(iii) (C): Calculation of marketing parameters for identify potential pockets and for evaluating cross trends for fertilizer and between industry products (Domestic/EXPORT) wise

(A) (1)(C) Calculation of Compound Annual Growth Rate (CAGR), Market Penetration, & Profitability (PBP/C ratio):

Under the project four kinds of total 20 samples of each fertilizers were collected by my Research Team and my performance is as given.

Calculation of Compound Annual Growth Rate (CAGR) on foundation of sales

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Other workspace activities

Maintenance of agricultural offices in Bandu of Mumbai (north),

(1) Administration, (2) Control, (3) Supervision and (4) Other activities

Objectives: Farmers the executive branch performing as chief executive of Mumbai. Who these executive duties carry maintenance maintaining various organizational management in Organizations. This is a large administrative area of the Mumbai Mumbai Metropolitan Region.

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SILKWORM PHYSIOLOGY LABORATORY

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Objectives:

- [illegible]
- [illegible]

Aim & Purpose: Comparison of glucose uptake in rat cerebral cortex by different routes of administration: intravenous, intraperitoneal, intramuscular and subcutaneous.

Methodology: Wistar rats were divided into four groups of six animals each. Group I was administered glucose intravenously, Group II intraperitoneally, Group III intramuscularly and Group IV subcutaneously. Blood samples were collected from the tail vein at 0, 15, 30, 45, 60, 90, 120, 150, 180, 210, 240, 270 and 300 minutes after glucose administration. Glucose concentrations were determined using the glucose oxidase method. Pharmacokinetic parameters were calculated using non-compartmental analysis.

Results: Intravenous administration produced the highest peak plasma glucose concentration (C_{max}) and the shortest time to reach peak concentration (T_{max}), consistent with rapid systemic exposure. Intraperitoneal administration showed a slightly lower C_{max} and a delayed T_{max}. Intramuscular and subcutaneous routes exhibited the lowest C_{max} values and the longest T_{max}, indicating slower absorption. The area under the curve (AUC) was highest for the intravenous route, followed by intraperitoneal, intramuscular and subcutaneous routes, respectively. Bioavailability relative to intravenous administration was approximately 92% for intraperitoneal, 78% for intramuscular and 65% for subcutaneous administration.

Conclusion: The study demonstrates that the route of administration significantly influences the pharmacokinetic profile of glucose in rat cerebral cortex. Intravenous administration provides rapid and complete systemic availability, while intraperitoneal administration offers a practical alternative with slightly reduced bioavailability. Intramuscular and subcutaneous routes result in slower absorption and lower peak concentrations, which may be advantageous for sustained delivery applications.

Aim & Purpose: To study the effect of oxytocin on the uterine activity of different isolation levels of pregnant Wistar albino rats by measuring the amplitude, duration of activity, area under the curve (AUC) and frequency of uterine contractions in response to oxytocin administration.

Methodology: Pregnant Wistar albino rats were divided into four groups of six animals each. Group I was kept in isolation from birth, Group II was isolated after weaning, Group III was isolated after mating, and Group IV was kept in normal housing conditions. Uterine activity was recorded using an isolated organ bath setup. Oxytocin was administered cumulatively, and the amplitude, duration of activity, AUC and frequency of uterine contractions were measured.

Results: Oxytocin produced a dose-dependent increase in uterine activity in all groups. However, the magnitude of response varied significantly with the isolation level. Rats isolated from birth exhibited the highest amplitude and AUC, while those kept in normal housing showed the lowest. The duration of activity was also longest in the birth isolation group. Frequency of contractions was highest in the mating isolation group, suggesting a stress-related increase in uterine excitability.

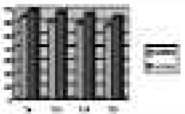
Conclusion: The study concluded that isolation, particularly from birth, enhances the uterine sensitivity to oxytocin in pregnant rats. This may be due to increased stress or altered receptor expression. These findings have implications for understanding the role of social factors in reproductive physiology and may be relevant for studies on maternal behavior and neonatal development.

Aim & Purpose: To study the effect of supplementation of different isolation levels of lactating mothers on the growth and development of their offspring. The study aimed to assess the impact of maternal isolation on offspring weight gain, survival rate, and overall health.

Methodology: Lactating mothers were divided into four groups: Group I (control), Group II (isolated from birth), Group III (isolated after weaning), and Group IV (isolated during mating). Offspring were monitored for weight gain, survival rate, and behavioral changes. Statistical analysis was performed using ANOVA and post-hoc tests.

Results: Offspring of mothers isolated from birth showed significantly lower weight gain and survival rates compared to the control group. Those isolated after weaning exhibited moderate effects, while those isolated during mating showed minimal impact. Behavioral changes, including increased aggression and anxiety, were observed in the birth isolation group.

Conclusion: Maternal isolation, especially from birth, has detrimental effects on offspring development and survival. The findings suggest that social support during lactation is crucial for healthy growth. Further studies are recommended to explore the underlying mechanisms and potential interventions.



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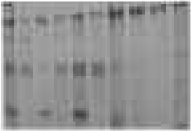

[illegible] TECHNOLOGY AND INNOVATION

[illegible] Identification of [illegible] hybrids suitable for different regions of high temperature and high humidity conditions [illegible]

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Objectives:

- To [illegible] under high temperature and high humidity
- To determine [illegible] under high temperature and high humidity

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Continued/Other Activities

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Objective: [illegible]

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TECHNOLOGY VALIDATION AND DEMONSTRATION CENTRE

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Objective: [illegible]

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PEST MANAGEMENT LABORATORY

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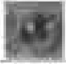
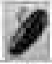
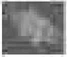
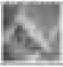
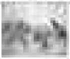
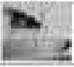

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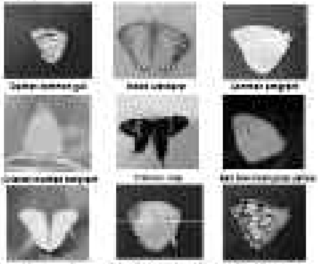
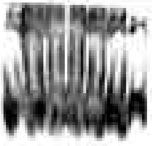


Ongoing Projects

Objectives



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POST COCOON EVALUATION UNIT

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Cluster Development Facilitators (CDFs)

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Cluster Development Facilitators (CDFs)

Andhra Pradesh

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Cluster Development Facilitators (CDFs)

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Cluster Development Facilitators (CDFs)

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In Tamil Nadu Rashtriya Seed Scheme (RSS), Salem organized a Farmers And Seed Producers Interaction cum Inspection of various crops, namely Maize, Groundnut and Horsegram at Thuraipadi village, Kondalampatti district on 30/03/2023. Thiru. R. Jose Manoharan, I.A.S., District Collector, Namakkal, Dr. D. Balasubramanian, Joint Director, Dept. of Agriculture, Salem and members of agricultural wing of Tamil Nadu Seed Growers Association, Coimbatore, Dr. A. Muthuraja, Professor & Head, Agronomy Section, Research Station, Tamil Nadu Agricultural University, Thiru. S. Vijayakumar, Assistant Director of Agriculture, Department of Agriculture, Government of Tamil Nadu, Namakkal and Thiru. S. Loganathan, Chief Executive Officer, M/s. Kongunadu Kudi Agricultural Service Society Ltd., Kondalampatti, Salem, Tamil Nadu participated in the event. Thiru. Loganathan, Chief Executive Officer, M/s. Kongunadu Kudi Agricultural Service Society Ltd., Kondalampatti, Salem, Tamil Nadu addressed the gathering and Dr. Balasubramanian, Joint Director of Agriculture, Salem, Tamil Nadu participated in the Field Visit. Scientific interventions like "Seed treatment with Rhizobium culture and PSB culture for maximizing nodulation", "Foliar application of Boron @ 0.2% at flowering stage for increasing pollination and fruit set in Groundnut", "Application of Gypsum @ 400 kg/ha at pegging stage in Groundnut", "Foliar application of Micronutrients mixture @ 0.5% at flowering stage in Horsegram", "Application of Micronutrients mixture @ 0.5% at flowering stage in Maize" and "Application of Micronutrients mixture @ 0.5% at tasseling stage in Maize" were discussed by Dr. A. Muthuraja, Professor & Head, Agronomy Section, Research Station, Tamil Nadu Agricultural University, Vaigai Dam and Dr. Balasubramanian, Joint Director of Agriculture, Salem, Tamil Nadu.

In the interactive meeting, farmers and seed producers expressed their problems in marketing of seeds, Thiru. Selvam and Thiru. Ravi of Salem District of Tamil Nadu in the Radhai Nilai Vaiyil to get knowledge on various seed production technologies and to receive guidance on their field to maximizing productivity.

Name	Total Fat	Saturates (Fat)	Sugars	Salt (Na)	Energy (kJ/100g) (kcal)	RI*	Sugars (g)	Fat (g)	Fibre (g)	Salt (g)	Sodium (mg)	Energy (kJ/kcal)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] Overseas Secondary Volunteer Programme (OSVP) under Overseas Secondary Volunteer scheme (OSV) was initiated during January 2016 for a period of one year mainly to support OSV in secondary schools / organizing sports meet groups/OSV in schools. During 2018-19, two new OSVs were inducted after month long orientation training of OSVs in Nigeria and were posted to Kanchanpuri (Jharkhand) and Jaipur (Tamil Nadu). The OSVs have initiated the start up activities of earlier OSVs, conducting 4 awareness programmes/Their inductions interactive sessions increasing enthusiasm in students. One quarterly meeting was held on 15.12.2018 at OSV's home...

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
	Total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAPACITY BUILDING AND TRAINING

[illegible]

[illegible]

Programme	Name of the course	Duration (Days)
Technology Dissemination Programme	Refresher course	[illegible]
	[illegible] programmes	[illegible]
[illegible] training	[illegible] training	[illegible]
	[illegible] training	[illegible]
	[illegible] training	[illegible]
Need Based Training (Officials/Students)	[illegible] programme	[illegible]
	[illegible]	[illegible]
	[illegible] management	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
[illegible]	[illegible] management	[illegible]
[illegible]	[illegible]	[illegible]
Need Based Training (Farmers)	[illegible] training	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible] training	[illegible]
	[illegible] training	[illegible]
	[illegible] management	[illegible]
	[illegible]	[illegible]

Association of Chemical Engineers, Bangladesh (AChEB) was established on [illegible]

Each batch of Diploma in Engineering (Chemical) Technology program has been admitted through a competitive admission test. Besides, a number of students are admitted through direct admission process. Students are admitted in the first year first semester of the program. Each batch consists of 40 students. Students are admitted in the second year first semester of the program through direct admission process. Students are admitted in the third year first semester of the program through direct admission process. Students are admitted in the fourth year first semester of the program through direct admission process.

	Programme	Duration (Years)	Seats					Total
			1st	2nd	3rd	4th	5th/6th	
Regular	Diploma in Engineering	4 Years						40
	Bachelor of Engineering in Chemical Engineering	4 Years	40	4	7	11	1	72
	Bachelor of Science in Chemical Engineering	5 Years			11			11
	B.Sc. in Chemical Engineering	4 Years	12	4	4	11	1	41
							Total	164
Evening	Diploma in Engineering	4				40	44	84
	Diploma in Engineering (Chemical) Technology	4	1					1
	Bachelor of Engineering	4				11	11	11
	Bachelor of Science in Chemical Engineering (Part-time)	5	11	1	1	11	1	11
	Diploma in Engineering	4	11					11
							Total	11

Faculty and Staff: The institute has 41 faculty members and 11 supporting staff. Among the faculty members, 11 are Ph.D. degree holders and 11 are pursuing their Ph.D. degree. Among the 11 supporting staff, 1 is Assistant Librarian, 1 is Laboratory Assistant, 1 is Laboratory Attendant, 1 is Computer Operator, 1 is Office Assistant, 1 is Office Attendant, 1 is Driver, 1 is Electrician, 1 is Peon and 1 is Security Guard.

Level	Name of the Subject (Code)	Students (No.)	
		1st	2nd
Undergraduate	[illegible]	1	
	[illegible]		11
Undergraduate	[illegible]		1
	[illegible]	1	
Undergraduate	[illegible]		1
Undergraduate	[illegible]		1
	[illegible]		1
	[illegible]		1
Undergraduate	[illegible]		1
Undergraduate	[illegible]		1
	[illegible]	1	
	Total	1	11

1st = 1st Semester; 2nd = 2nd Semester

Student Intake: The institute also produces diploma and undergraduate graduates in each of the following engineering disciplines:

Undergraduate Degree Programs: Undergraduate degree programs are offered in the following disciplines:

[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
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FARM MANAGEMENT SECTION

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BIOINFORMATICS CENTRE (Sub DIC under BTISNET)

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REGIONAL AGRICULTURAL RESEARCH STATIONS (RARS)

Regional Agricultural Research Stations (RARS) are established to address the regional problems of agriculture through research [illegible]

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	Technical Staff	[illegible]
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Objectives

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ONGOING PROJECTS

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Agricultural Commodity Trading Activities							
Activity	Market Size (Rs. Crore)	Margin (%)	EBIT (Rs. Crore)	EBIT (US $ Million)	CAGR (%) (3 Years)	CAGR (%) (5 Years)	EBIT Margin (%)
Agro Commodities	40,000	2.00%	800	125	12.50%	15.00%	2.00%
Edible Oils & Oilseeds	18,000	1.50%	270	42	10.20%	12.00%	1.50%
Pulses	8,000	2.50%	200	31	14.00%	16.50%	2.50%
Spices & Condiments	6,000	3.00%	180	28	9.80%	11.20%	3.00%
Grains & Dairy Products	4,000	1.80%	72	11	8.50%	10.00%	1.80%
Total	76,000	2.00%	1,522	237	11.20%	13.50%	2.00%

Natural Gas Trading Activities

A total of 1,450 MMBtu was traded on the Exchange platform during the year, as against 1,120 MMBtu in the previous year.

Other Commercial Activities

Survey and Identification of Angadia agents and their network operators in the Bullion Ecosystem

1) Client Visit

Objectives:

- To interview the employees of Angadia agents and their network operators in the bullion ecosystem.
- To understand the details and details of work, timelines of delivery and their requirements.
- To establish a volume of new clients for various services of the Exchange.

The programme is continuous activities. Business client participates on monthly basis on the basis of volume of business in the Farmer's Mall. Participation was classified in various as maximum participation. Trainer surveys were conducted during the year. In previous year in February and March, it was observed that more than 60% of the participants who participated in the training programmes were from Jan to Dec 2016 and ranged from 3.0 to 3.5 %. Overall, the survey revealed that in the training programmes, the participants showed a moderate gain in knowledge and skills, with a mean score increase of 15% to 20% after the training. The survey also revealed that the participants were satisfied with the training programmes, with a mean score of 4.2 out of 5.

Commodity and Forecasting simulations cases

1) [illegible]

Objectives:

- To provide real-time simulations of trading scenarios to help participants understand market dynamics.
- To develop forecasting models for price prediction and risk management.

Various cases conducted in Emergency meetings on the basis of Farmers Mall committee. Participation in the meeting was conducted during the year by the Farmer's Mall committee. Different chapters that the Exchange has recorded in relation to weather conditions. The weather data and historical trading data collected in the months of the mutually fixed schedule, a total number of 1,200 participants and members in the meeting to participate. Data and analysis was carried out in 2018.

Farm and Warehouse visiting activities

1) [illegible]

A total of 2,500 bags of mulberry fruit was produced and utilized for the period, an addition of 300 bags over the previous year. The increase was due to the expansion of the mulberry plantation area by 15 acres during the year and the use of high-yielding varieties. The production was carried out in the months of March, April, May, June, July, August, September, October, November, December, January, February, March, April, May, June, July, August, September, October, November, December, January, February, March, April, May, June, July, August, September, October, November, December, January, February,

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Programmes

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							No. of farmers	[illegible]	No. of [illegible]	No. of farmers
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	Total	[illegible]	[illegible]							

Training programmes conducted under capacity building/training

Training programmes	Date	Venue	No. of participants
[illegible]	[illegible]	[illegible]	[illegible]

Sl. no.	Date	Name	Contact number	Name of participants (Farmers & Ext. Officials/Others)
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1	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]
		Total	[illegible]	[illegible]
2	[illegible]			
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2	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]
		Total	[illegible]	[illegible]
3	[illegible]			
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Sl. no.	Date	Name	Contact number	Name of participants (Farmers & Ext. Officials/Others)
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4	[illegible]	[illegible]	[illegible]	[illegible]
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		Total	[illegible]	[illegible]
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Total	[illegible]	[illegible]	[illegible]

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Ph.D. degree

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% samples	[illegible]	[illegible]	[illegible]
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% samples	[illegible]	[illegible]	[illegible]
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Ongoing Research Projects:

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Objectives:

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Objectives:

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ADMINISTRATIVE REPORT

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RESEARCH ADVISORY COMMITTEE	
Chairman [illegible] [illegible] [illegible] [illegible]	[illegible] Department of Horticulture [illegible] [illegible] [illegible]
Members [illegible] [illegible] [illegible] [illegible]	The Commissioner of Horticulture [illegible] [illegible] [illegible] [illegible] [illegible]
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The Director [illegible] [illegible] [illegible] [illegible]	Member Convener Director [illegible] [illegible] [illegible]

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Month	Temperature (°C)			Relative Humidity (%)			Rainfall (mm)
	Max.	Min.	Avg.	Max.	Min.	Avg.	
January	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
February	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
March	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
April	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
May	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
June	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
July	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
August	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
September	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
October	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
November	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
December	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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PUBLICATIONS

International Journals

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[illegible] G., Anthony Gabriel G., Jonathan Joseph A., Application of some Environment [illegible] model of [illegible] [illegible] [illegible]

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Highlights of Assam Rural Livelihood Mission (ARLM)

Sl.	Success Indicator	Unit	Target	Achievement
1	[illegible]	%	80	87
2	[illegible]	no	11	11
3	[illegible]	no	11	11
4	[illegible]	no	4	4
5	[illegible]	no	4	4
6	[illegible]	%	3	3
7	[illegible]	%	3	3
8	[illegible]	Lumpsum	10000	11000
9	[illegible]	no	40	40
10	[illegible]	%	800	1000
11	[illegible]	%	100	100
12	[illegible]	%	100	100
13	[illegible]	%	1100	1100
14	[illegible]	%	11	11
15	[illegible]	no	100	100
16	[illegible]	no	40	40
17	[illegible]	no	100	100
18	[illegible]	Lakh/no	11	11
19	[illegible]	number	40	40
20	[illegible]	%	1000	1000
21	[illegible]	no	800	800
22	Establishment of financial inclusion activities	lakh/gp lakh/gp lakh/no	20	Rs 10 gp (1 no) Rs 10 gp (1 no) Rs 1000 (1 no)
23	[illegible]	%	1	1
24	[illegible]	%	40	40
25	[illegible]	Number	100	100
26	[illegible]	%	100	100
27	[illegible]	no	1000	1000
28	[illegible]	%	10	10
29	[illegible]	%	11	11
30	[illegible]	no	1	1
31	[illegible]	no	40	40
32	[illegible]	no	1100	1100
33	[illegible]	no (lakh)	4	4
34	[illegible]	Rs (lakh)	100	111
35	[illegible]	Times	40	40
36	[illegible]	%	80	80
37	[illegible]	%	80	80
38	[illegible]	%	87	87
39	[illegible]	%	80	80
40	[illegible]	%	20	20
41	[illegible]	no	1	1