



# **Results-Framework Document (RFD)**

**for**

**Central Institute for Research on Cotton Technology**

**(2013 –2014)**

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## **SECTION 1: Vision, Mission, Objectives and Functions**

### **Vision**

- Global Excellence in Cotton Technology

### **Mission**

- To provide scientific and managerial interventions to post-harvest processing and value addition to cotton and other natural fibres and utilization of their by-products to maximize economic, environmental and societal benefits.

### **Objectives**

1. Development of post-harvest technologies and machinery for better utilization of cotton, other textile fibres and their by-products.
2. Quality evaluation and improvement of Indian cottons and their value added products
3. Technology transfer, training, consultancy and IPR management

### **Functions**

1. To function as a centre of R & D excellence and technology provider for processing and value addition of cotton and other related natural fibres, their blends and by-products.
2. To act as an interface between cotton breeder and industry by providing technology support to both; to function as an accredited referral laboratory for textile testing.
3. To provide need based training and entrepreneurship development programmes.

**SECTION 2:**  
**Inter se Priorities among key Objectives, Success Indicators and Targets**

| S.No. | Objectives  | Weight | Actions  | Success Indicators  | Unit   | Weight | Target/Criteria Value |           |      |      |      |
|-------|---|--------|--|---|--------|--------|-----------------------|-----------|------|------|------|
|       |   |        |  |   |        |        | Excellent             | Very good | Good | Fair | Poor |
|       |   |        |  |   |        |        | 100%                  | 90%       | 80%  | 70%  | 60%  |
| 1.    | Development of post-harvest technologies and machinery for better utilization of cotton, other textile fibres and their by-products | 40     | Development of process protocols for cotton and blended textiles | Process protocols developed                                 | Number | 22     | 7                     | 6         | 5    | 4    | 3    |
|       |   |        | Development of value added products                              | Value added products developed                              | Number | 18     | 5                     | 4         | 3    | 2    | 1    |
| 2.    | Quality evaluation and improvement of Indian cottons and their value added products   | 25     | Evaluation of breeders' samples as per CIRCOT norms              | Breeders' samples evaluated                                 | Number | 15     | 8500                  | 8000      | 7750 | 7500 | 7250 |
|       |   |        | Evaluation of commercial samples                                 | Commercial samples evaluated                                | Number | 10     | 6500                  | 6000      | 5750 | 5500 | 5250 |
| 3.    | Technology transfer, training, consultancy and IPR management   | 24     | Patent/commercialisation /partnership                            | Patent specifications filed/MOU signed/ renewed             | Number | 8      | 7                     | 6         | 5    | 4    | 3    |
|       |   |        | Training to industry personnel                                   | Training programmes conducted on ginning & fibre technology | Number | 8      | 15                    | 14        | 12   | 10   | 8    |
|       |   |        | Demonstration of technologies                                    | Demonstration/ exhibitions/ awareness meets                 | Number | 8      | 13                    | 12        | 11   | 10   | 9    |

|   |   |   |  | organised/<br>participated |   |            |            |            |            |            |  |
|---|---|---|--|----------------------------|---|------------|------------|------------|------------|------------|--|
| Efficient Functioning of the RFD System   | 3 | Timely submission of Draft RFD (2013-14) for approval | On-time submission   | Date                       | 2 | 15/05/2013 | 16/05/2013 | 17/05/2013 | 20/05/2013 | 21/05/2013 |  |
|   |   | Timely submission of Results for RFD (2012-13)        | On-time submission   | Date                       | 1 | 01/05/2013 | 02/05/2013 | 05/05/2013 | 06/05/2013 | 07/05/2013 |  |
| Administrative Reforms  | 4 | Implement ISO 9001 as per the approved action plan    | % Implementation   | %                          | 2 | 100        | 95         | 90         | 85         | 80         |  |
|   |   | Prepare an action plan for Innovation                 | On-time submission   | Date                       | 2 | 30/07/2013 | 10/08/2013 | 20/08/2013 | 30/08/2013 | 10/09/2013 |  |
| Improving internal efficiency /responsiveness / service delivery of Ministry / Department | 4 | Implementation of Sevottam                            | Independent Audit of Implementation of Citizen's Charter                 | %                          | 2 | 100        | 95         | 90         | 85         | 80         |  |
|   |   |   | Independent Audit of implementation of public grievance redressal system | %                          | 2 | 100        | 95         | 90         | 85         | 80         |  |

**SECTION 3:**  
**Trend values of the success indicators**

| S.No. | Objectives  | Actions  | Success Indicators  | Unit   | Actual Value for FY11/12 | Actual Value for FY12/13 | Target Value for FY13/14 | Projected Value for FY14/15 | Projected Value for FY15/16 |
|-------|---|--|---|--------|--------------------------|--------------------------|--------------------------|-----------------------------|-----------------------------|
| 1.    | Development of post-harvest technologies and machinery for better utilization of cotton, other textile fibres and their by-products | Development of process protocols for cotton and blended textiles | Process protocols developed                                       | Number | 8                        | 7                        | 6                        | 7                           | 8                           |
|       |   | Development of value added products                              | Value added products developed                                    | Number | 5                        | 6                        | 4                        | 5                           | 6                           |
| 2.    | Quality evaluation and improvement of Indian cottons and their value added products   | Evaluation of breeders' samples as per CIRCOT norms              | Breeders' samples evaluated                                       | Number | 9023                     | 23611                    | 8000                     | 8500                        | 9000                        |
|       |   | Evaluation of commercial samples                                 | Commercial samples evaluated                                      | Number | 7188                     | 9740                     | 6000                     | 6250                        | 6500                        |
| 3.    | Technology transfer, training, consultancy and IPR management   | Patent/commercialisation/partnership                             | Patent specifications filed/MOU signed/renewed                    | Number | 6                        | 11                       | 6                        | 7                           | 7                           |
|       |   | Training to industry personnel                                   | Training programmes conducted on ginning & fibre technology       | Number | 14                       | 18                       | 14                       | 15                          | 16                          |
|       |   | Demonstration of technologies                                    | Demonstration/exhibitions/ awareness meets organised/participated | Number | 16                       | 13                       | 12                       | 13                          | 14                          |

|   |   |  |      |    |    |            |    |    |
|---|---|--|------|----|----|------------|----|----|
| Efficient Functioning of the RFD System   | Timely submission of Draft RFD (2013-14) for approval | On-time submission   | Date | -- | -- | 16/05/2013 | -- | -- |
|   | Timely submission of Results for RFD (2012-13)        | On-time submission   | Date | -- | -- | 02/05/2013 | -- | -- |
| Administrative Reforms  | Implement ISO 9001 as per the approved action plan    | % Implementation   | %    | -- | -- | 95         | -- | -- |
|   | Prepare an action plan for Innovation                 | On-time submission   | Date | -- | -- | 10/08/2013 | -- | -- |
| Improving internal efficiency /responsiveness / service delivery of Ministry / Department | Implementation of Sevottam                            | Independent Audit of Implementation of Citizen's Charter                 | %    | -- | -- | 95         | -- | -- |
|   |   | Independent Audit of implementation of public grievance redressal system | %    | -- | -- | 95         | -- | -- |

#### SECTION 4: Acronyms

| Sl. No. | Acronym | Description   |
|---------|---------|---|
| 1       | AICCIP  | All India Co-ordinated Cotton Improvement Project   |
| 2       | SAU     | State Agricultural University                       |
| 3       | MoU     | Memorandum of Understanding                         |
| 4       | CSP     | Count Strength Product                              |
| 5       | IPR     | Intellectual Property Right                         |
| 6       | R&D     | Research and Development                            |
| 7       | CIRCOT  | Central Institute for Research on Cotton Technology |

#### SECTION 4: Description and definition of success indicators and proposed measurement methodology

| Sl. No. | Success Indicator                              | Description   | Definition   | Measurement   | General Comments |
|---------|--|---|--|---|------------------|
| 1.      | Process protocols developed                    | Methodology to carry out a process  | Development of methods to complete a process                                       | Quality of process  | Nil              |
| 2.      | Value added products developed                 | Development of new products from the cotton and other natural fibres        | Research work for development of different value added products                    | End-product   | Nil              |
| 3.      | Breeders' samples evaluated                    | Type of fibre, yarn and fabric prepared from samples received from breeders | Testing of quality parameters  | Length, fineness, uniformity, strength, Count, Count strength Product (CSP)   | Nil              |
| 4.      | Commercial samples evaluated                   | Type of fibre, yarn and fabric prepared from samples received from industry | Testing of quality parameters  | Length, fineness, uniformity, strength, Count Strength Product (CSP), yarn evenness, fabric construction and handle | Nil              |
| 5.      | Patent specifications filed/MOU signed/renewed | Filing of patents and signing of MOU with entrepreneurs based on            | Development and licensing of new innovative process or product that has commercial | Number of patents/MOU signed  | Nil              |

|    |   | research work  | application   |   |     |
|----|---|--|---|---|-----|
| 6. | Training programmes conducted on ginning & fibre technology         | Organization of paid training programmes for personnel in cotton trade and industry                    | Capacity building of cotton trade and ginning industry sector   | Number of training programmes and personnel trained             | Nil |
| 7. | Demonstration/ exhibitions/ awareness meets organised/ participated | Organisation and participation in demonstration/ exhibitions/ awareness meets for technology transfer. | Creation of awareness and transfer of technologies to end users | Number of exhibitions/demonstration / awareness meets organized | Nil |



**SECTION 5:**  
**Specific performance requirements from other departments**

| <b>Location Type</b>    | <b>State</b> | <b>Organization Type</b>          | <b>Organization Name</b>            | <b>Relevant Success Indicator</b>                           | <b>What is your requirement from this organization</b>               | <b>Justification for this requirement</b>                             | <b>Please quantify your requirement from this Organization</b> | <b>What happens if your requirement is not met</b>  |
|-------------------------|--------------|-----------------------------------|-------------------------------------|---|--|---|--|---|
| Cotton Research Station | All States   | Research (Government and Private) | SAU, AICCIP                         | Breeders' samples evaluated                                 | Fibre samples from cotton breeders for evaluation                    | Development of new varieties and improvement of Indian cottons        | 8500   | Availability of quality cotton commensurate with industry requirement will suffer             |
| Textile Industry        | All States   | Private Industry                  | Ginning, Spinning and Textile Mills | Commercial samples evaluated                                | Fibre, yarn, fabric and made up samples from industry for evaluation | Technology support to cotton trade and industry for quality assurance | 6500   | Quality assurance to the industry will be affected. Revenue generation of CIRCOT will deplete |
| Ginning Industry        | All States   | Private Industry                  | Cotton Ginning Industry             | Training programmes conducted on ginning & fibre technology | Participants sponsored for training                                  | Creation of trained manpower for efficient functioning of industry    | 15   | Skilled and efficient manpower required by industry will reduce                               |

**SECTION 6:**  
**Outcome / Impact of activities of organisation/ministry**

| S.No. | Outcome / Impact of Organization  | Jointly responsible for influencing this outcome / impact with the following organisation (s) / departments/ministry(ies)            | Success Indicator (s)  | Unit | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 |
|-------|---|--|--|------|-----------|-----------|-----------|-----------|-----------|
| 1     | Post-harvest processing technologies for cotton and by-products                       | Agro-processing industries processing cotton seed and stalks   | Increase in value addition to cotton seed and plant by-products    | %    | 2         | 3         | 3         | 4         | 4         |
| 2     | Improved cotton quality   | Office of the Textile Commissioner, Directorate of Cotton Development, Ginning and Textile mills                                     | Increase in domestic consumption of cotton                         | %    | 2         | 2         | 2         | 3         | 3         |
| 3     | Enhanced availability of quality human resource for cotton trade and ginning industry | Research Associations under Ministry of Textiles, Department of Textiles under State Government, Private gin machinery manufacturers | Increase in capacity building in cotton trade and ginning industry | %    | 3         | 4         | 4         | 5         | 5         |