



Results-Framework Document (RFD)

for

Directorate of Onion and Garlic Research

(2012-2013)

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Section 1: Vision, Mission, Objectives and Functions

Vision

To promote overall growth of onion and garlic in terms of enhancement of quality, production, export and processing.

Mission

Harness the national resources to increase the production of onion and garlic and identify the strategies for sustainable and eco-friendly practices to enhance profitability and welfare of the farming community.

Objectives

1. Conservation of genetic resources/germplasm for sustainable use
2. Production of quality planting material
3. Development of technologies to increase production and productivity of onion and garlic

Functions

To plan, coordinate, implement and monitor R&D programmes for sustainable production of onion & garlic and resource conservation.

Section 2: *Inter se* priorities among key objectives, success indicators and targets

| Objectives | Weight (%) | Actions | Success Indicators | Unit | Weight (%) | Target/Criteria Value | | | | |
|---|------------|---|---|--------|------------|-----------------------|-----------------|-----------------|-----------------|-----------------|
| | | | | | | Excellent 100% | Very Good 90% | Good 80% | Fair 70% | Poor 60% |
| [1] Conservation of genetic resources/germplasm for sustainable use | 35 | Collection of onion & garlic germplasm | Number of germplasm collected | Number | 10 | 20 | 18 | 16 | 14 | 12 |
| | | Conservation of onion & garlic germplasm | Number of germplasm conserved | Number | 10 | 800 | 700 | 600 | 500 | 400 |
| | | Evaluation of high yielding lines of onion & garlic | Number of lines evaluated for yield & quality | Number | 15 | 40 | 30 | 20 | 10 | 5 |
| [2] Production of quality planting material | 30 | Production of quality onion seed | Quantity | Kg | 20 | 1600 | 1500 | 1400 | 1300 | 1200 |
| | | Production of good quality planting material (cloves) of garlic | Quantity | Tones | 10 | 7.5 | 6.5 | 6 | 5 | 4.5 |
| [3] Development of technologies to increase production and productivity of onion and garlic | 20 | Technologies developed, participatory technology developed, prototype, genetic stock, variety, product, vaccine, diagnostic kit, process, concept, methodology, software development/Data base management/Expert system developed/Decision support system /models / e-learning lessons / models, Advanced lines developed | No. of technologies | Number | 20 | 5 | 4 | 3 | 2 | 1 |
| Efficient functioning of the RFD system | 03 | Timely submission of RFD for 2012-13 | On-time submission | Date | 02 | Mar. 23 2012 | Mar. 26 2012 | Mar. 27 2012 | Mar. 28 2012 | Mar. 29 2012 |
| | | Timely submission of results for 2012-13 | On-time submission | Date | 01 | May 1 2013 | May 2 2013 | May 3 2013 | May 6 2013 | May 7 2013 |

| | | | | | | | | | | |
|--|----|---|--|------|----|------------------|------------------|------------------|------------------|------------------|
| Administrative reforms | 05 | Implement ISO 9001 | Prepare ISO 9001 action plan | Date | 01 | June 4 2012 | June 5 2012 | June 6 2012 | June 7 2012 | June 8 2012 |
| | | | Implementation of ISO 9001 action plan | Date | 02 | March 25 2013 | March 26 2013 | March 27 2013 | March 28 2013 | March 29 2013 |
| | | Implement mitigating strategies for reducing potential risk of corruption | % of implementation | % | 02 | 100 | 95 | 90 | 85 | 80 |
| Improving internal efficiency / responsiveness / service delivery of Ministry / Department | 04 | | Independent Audit of Implementation of Citizen's Charter | % | 02 | 100 | 95 | 90 | 85 | 80 |
| | | Implementation of Sevottam | Independent Audit of implementation of public grievance redressal system | % | 02 | 100 | 95 | 90 | 85 | 80 |

Section 3: Trend values of the success indicators

| Objectives | Action | Success Indicators | Unit | Actual value for FY 10/11 | Actual value for FY 11/12 | TargetValue for FY 12/13 | Projected Value for FY 13/14 | Projected Value for FY 14/15 |
|---|---|---|--------|---------------------------|---------------------------|--------------------------|------------------------------|------------------------------|
| Conservation of genetic resources/germplasm for sustainable use | Collection of onion and garlic germplasm | Number of germplasm collected | Number | 17 | 118 | 18 | 20 | 20 |
| | Conservation of onion & garlic | Number of germplasm conserved | Number | 560 | 1450 | 700 | 1600 | 1700 |
| | Development/Evaluation of high yielding lines of onion & garlic | No of lines evaluated for yield & quality | Number | 40 | 42 | 30 | 50 | 60 |
| Production quality planting material | Production of quality onion seed | Quantity | Kg | 2300 | 2632 | 1500 | 1650 | 1700 |
| | Production of good quality planting material (cloves) of garlic | Quantity | Tones | 6 | 6.5 | 6.5 | 8.0 | 8.5 |
| Development of production technologies | Technologies developed, participatory technology developed, prototype, genetic stock, variety, product, vaccine, diagnostic kit, process, advanced lines, concept, methodology, software development/Data base management/Expert system developed/Decision support system /models / e-learning lessons / models developed | No of technologies | Number | 3 | 5 | 4 | 6 | 8 |

| | | | | | | | | |
|---|---|--|------|---|---|----------|---|---|
| Efficient functioning of the RFD system | Timely submission of RFD for 2012-13 | On-time submission | Date | - | - | 26/03/12 | - | - |
| | Timely submission of results for 2012-13 | On-time submission | Date | - | - | 02/05/13 | - | - |
| Administrative reforms | Implement ISO 9001 | Prepare ISO 9001 action plan | Date | - | - | 05/06/12 | - | - |
| | | Implementation of ISO 9001 action plan | Date | - | - | 26/03/13 | - | - |
| | Implement mitigating strategies for reducing potential risk of corruption | % of implementation | % | - | - | 95 | - | - |
| 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: Description and definition of success indicators and proposed measurement methodology

1. Objective 1

The genetic diversity of onion & garlic will be collected from different eco-regions, characterized and utilized to develop varieties for higher yields, quality and biotic and abiotic stresses. The success will be measured in terms of number of germplasm/ advanced lines to be collected, conserved /evaluated.

2. Objective 2

Production of good quality planting materials of improved varieties of onion & garlic is an important mandate of the institute. The good quality onion seed is produced by standard procedure while, planting materials of garlic is produced clonally from cloves. Success will be measured in terms of area to be planted for production of good quality planting materials and measurable quantity.

3. Objective 3

Harnessing and enhancing genetic potential of released varieties through agronomic innovations.

Section 5: Specific performance requirements from other Departments

1. MOU is required for germplasm introduction and evaluation from various International and National stakeholders through NBPGR (ICAR).
2. Based on the demand from Dept. of Agriculture of State Governments, NHM, Spices Board, NAFED and progressive farmers.

Section 6: Outcome / Impact of activities of organisation (Table 3)

| Sl. No. | Outcome/ Impact of organization/ RCs | Jointly responsible for influencing this outcome/impact with the following organization (s)/ ministries | Success indicators | Unit | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
|---------|---|---|-------------------------------|----------|---------|---------|---------|---------|
| 1. | Production of quality onion seed | DOGR /SAU/KVKs | Quantity of seeds | quintals | 2632 | 1600 | 1650 | 1700 |
| 2. | Production of good quality planting material (cloves) of garlic | DOGR /SAU/KVKs | Quantity of planting material | tonnes | 6.5 | 7.5 | 8.0 | 8.5 |
| 3. | Development of technologies viz varieties, diagnostic kits, Process, protocols, concept, methodology, Software development, expert system, Decision Support System etc. | DOGR /SAU/KVKs | Technologies developed | No. | 5 | 5 | 7 | 8 |