**MANDATE**
- Researches on field and horticultural crops, livestock, and fisheries relevant to natural resource base of coastal India for sustainable productivity.
- Develop climate resilient land use and farming systems for improved and sustainable livelihood through coastal agriculture.
- Act as a centre of agro-eco-tourism.

**MISSION**
Introduction and improvement of all potential crops and various species / breeds of livestock and scientific exploitation of various aquatic resources for improving fish production”.

**VISION**
To spread the knowledge on agriculture, horticulture, livestock and fish farming for increasing productivity and livelihood security of farming community.

**SIGNIFICANT ACHIEVEMENTS**
- GIS and GPS based soil fertility mapping state of Goa
- Development of integrated farming system (IFS) models (upland and low land) for west coast of India
- Integrated nutrient management for rice production in coastal saline soils of Goa
- Grafting of cultivated brinjal on wild brinjal - A promising technology to manage bacterial wilt
- Biological control of bacterial wilt using antagonistic bacteria
- Development of microbial inoculant based INM Package for cashew
- Goa Benualim Pani a coconut selection with desirable tender coconut qualities was identified
- Three promising new cashew selections - Tiswadi-3 (Goa Cashew-2); Ganje-2 (Goa Cashew-3); KN 2/98 (Goa Cashew-4) submitted to SVRC.
- Post harvest studies in fruits and spices
- Standardized polyhouse production technologies for high value flower and vegetable crops in Goa.
- Agonda Goan – A local pig breed identified and registered with NBAGAR as coastal breed.
- Evaluation and preservation of boar semen
- Characterization of *Listeria monocytogenes* using PFGE

**FIVE BEST TECHNOLOGIES/PRODUCTS**
- Package of practice for backyard poultry (Vanaraja, Srinidhi and Gramapriya) production standardized
- Exploration of fish biodiversity in Goa
- Satellite based Potential Fishing Zone (PFZ) advisories and validations in Goa
- Standardization of low cost mussel culture in Goa
- Development of web portal – Soil Health Management
- WASP: The first Web Based Agricultural Statistics Software Package developed

**NEW INITIATIVES**
- Online web portal for crop wise fertilizer recommendations.
- Launched fertilizer calculator Goa- app. for mobile users
- Integrated insect pest and disease management in crop plants with emphasis on sustainable and eco friendly approach.
- Development of coastal agriculture
- Protocols for processing of nutmeg pericarp for making candy, jam and syrup standardized.
- Production of hydroponics fodder by low cost devices for feeding of dairy animals.
- Introduced livestocks - Gir, Konkan Kanyal goat, Kuttinad ducks and duroc pig and evaluation for their performance under coastal climatic conditions.
- Developing diagnostic assays to detect animal pathogens such as ORF virus and *E. coli* 0157:H7 from goats, *Pasteurella multocida* from dairy cows and Cryptosporidiosis from pigs and cattle.
- Standardized AI in pigs
- Developed a boar semen extender and obtained preliminary patent.

**COLLABORATIVE PARTNERS**
Institute has established linkages with IRRI, PDFSR, DSR, IISR, CSSRI, CPCRI, DCR, NRC on Pig, IGFRI, CIFE, CMFRI, IVRI, NIVEDI, DPR and other SAUs.

**FLAGSHIP PROGRAMMES**
Integrated farming system for livelihood security and sustainability for agricultural farmers.

**THRUST AREAS FOR XII PLAN**
- Management of coastal salinity and mine reject areas to improve the productivty of different crops.
- Collection, conservation, characterization and sustainable management of region specific genetic resources in major field and horticultural crops.
- Population dynamics and virulence of insect pests and plant pathogens in the emerging scenario of climate change to design appropriate management strategies.
- Nutritional and managerial interventions for economic milk and meat production.
- Development of fresh, marine and brackish water fish production through different enhancement and culture techniques.

**EXTERNALLY FUNDED PROJECTS/CONSULTANCY**
Foreign aided projects: 1
Other sponsored projects: 23 (ICAR, DBT, NFDB, DSTE, Goa, Noni Foundation, RKVY etc.)

**STAFF STRENGTH**

<table>
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<th></th>
<th>Sanctioned</th>
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**QRT**
- **Period:** 1st January, 2007 to 30th April, 2013.
- **Chairman:** Dr. Vijay Mehta
- **Next QRT due:** for 1st May, 2013 to 31st March, 2018.

**RAC**
- **Period:** 30th January, 2014 to 29th Jaurary, 2017.
- **Chairman:** Dr. R. B. Deshmukh
- **RAC held:** 29-30 October, 2015
- **Next RAC Committee due for:** - Jan 2017

**IMC**
- **Period:** September, 2013 to September, 2016.
- **Chairman:** Dr. Narendra Pratap Singh
- **Next IMC due for:** - October 2016

**RFD 7 COMPOSITE SCORE FOR 4 YEARS**

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<td>96.4</td>
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**STAUSS OF ISO 9001**
Certified: International Certification Services Pvt. Ltd

**PUBLICATIONS (PREVIOUS YEAR)**
No. of papers in NAAS rated journals:
(a) No. of paper in score < 6: 14
(b) No. of papers in score > 6: 15
Total 29
Per scientist per year papers: 1.61

**FINANCIAL OUTLAY (Rs. in lakh)**

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<th>XII Plant actual utilization</th>
<th>Last year budget (2015-16)</th>
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<th>Actual expenditure</th>
<th>% utilization</th>
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<td>Non-plan</td>
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**RESOURCE GENERATION FOR LAST 3 YEARS (RS. IN LAKHS)**

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<tr>
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<td>73.86</td>
<td>69.74</td>
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**Director:** Dr. Narendra Pratap Singh
Tel: 0832-2284677
Email: director.ccari@icar.gov.in