PD-RPCAU/IB-UCN-001/2024

Viksit Bharat
@2047

DIRECTORATE OF RESEARCH
AT A GLANCE

DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY
Pusa, Samastipur, Bihar-848 125

"AN INSTITUTION OF NATIONAL IMPORTANCE"

MISSION

To coordinate and conduct, the basic, fundamental and applied research in agriculture and allied sciences

MANDATE

i. To coordinate the research activities of different disciplines of agricultural sciences.

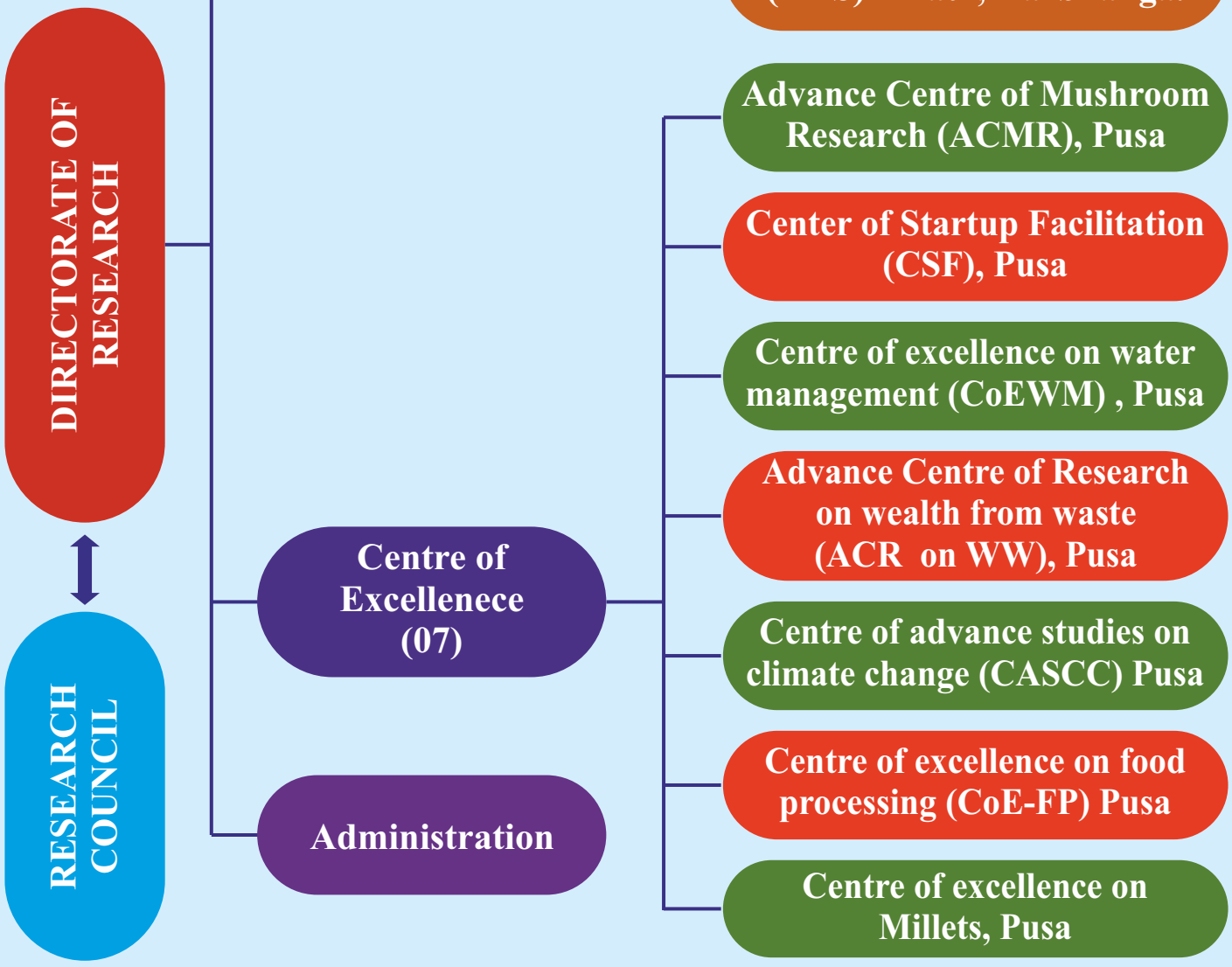
ii. To evaluate, monitor and budgeting of research projects / programmes in the university.

iii. Administration, management and monitoring of research centres/stations in the campus and off the campus.

iv. To develop linkage between national and international research organizations.

v. Processing of research papers for publication in national/international peer reviewed journals.

ORGANIZATION STRUCTURE



RESEARCH COUNCIL

The Research Council is responsible for the formulation of research programme and monitoring of their progress and application.

This is a statutory body with defined composition and power:

A Composition of Research Council

(i) The Vice-Chancellor, Chairman

(ii) Director of Extension Education, Member

(iii) Director of Education, Member

(iv) All Deans of the colleges of the University, Members

(v) Nominee of the State Government not below the rank of Director Member

(vi) All Co-ordinators of the Research Teams of the University, Member

(vii) Two eminent agricultural scientists nominated by the Vice-Chancellor for three years, Member.

(viii) Director of Research, Member-Secretary.

The Research Council shall meet at least once in a year. One-third members of the Research Council shall form the quorum for the meeting of the Research Council.

Powers of Research Council:

There shall be a Research Council of the University to exercise general supervision over the research policies and programmes of the University in the area of Agriculture and allied disciplines.

RESEARCH PRIORITIES

- Development of varieties of cereals, millets, sugarcane, pulses and oil seeds for enhancement of productivity, nutritional quality and climate resilience through resistance to biotic and abiotic stresses using conventional and modern crop improvement tools.
- Resource conservation technologies for enhancing use efficiency of land, water, nutrients, agrochemicals and energy.
- Development and dissemination of climate resilient crop production technologies.
- Strengthening of post-harvest management and agro-processing for value addition and extended shelf life of perishable agricultural produces.
- Environment friendly sustainable farming system approach like organic and natural farming.
- Identification and development of climate resilient varieties, quality of fruits, vegetables and flowers.
- Develop and standardized of Hi-tech AI based polyhouse cultivation for horticultural crops.
- Precision agriculture technologies, application of Geographical Information System (GIS) and Global Positioning System (GPS), sensors for monitoring and management of natural resources.
- Farm machinery development for small and marginal farmers.
- Emphasis on women empowerment for household management in farm women operations.
- Conservation and maintenance of indigenous cattle breeds and their genetic advancement for higher milk productivity.

PROJECT DETAILS

FOREIGN COLLABORATION

MAJOR ACHIEVEMENTS

ONE (1) GI TAG OF MARCHA RICE

TEN (10) PATENT GRANTED

TWENTY SEVEN (27) TECHNOLOGIES DEVELOPED

TWENTY THREE (23) VARIETY DEVELOPED

VARIETIES

Rice (02)

Wheat (03)

Maize (04)

Small Millet (01)

Finger Millet (01)

Pigeonpea (02)

Sugarcane (03)

Coriander (02)

Garlic (01)

Yambean (01)

Sweet Potato (01)

Mushroom (01)

Arvi (01)

PATENTS

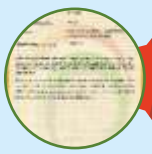
A Self-Propelled Rotary Power Paddy Weeder

Method and Composition of Unique Mushroom Samosa

Hand Cranked Improved Chakki

Multi-Crop Seeder

Hand Tool for Okra Harvesting with Collection Hopper



Energy Dense Nutritive Food having Balanced Nutritional Composition and Process for Preparation

A Power Driven Device for Shelling and Hulling of Grains

A Solar Powered Fish Preservation And Transportation Cart

Mushroom Substrate Pasteurizer

Design of Food Cart

PUBLICATIONS

PATRON
Dr. P. S. Pandey
Vice-Chancellor
RPCAU Pusa

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DIRECTORATE OF RESEARCH