



National Agricultural Higher Education Project (NAHEP)

Brainstorming Session for Project Formulation

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भूगोलिक सूचना शास्त्र अनुसंधान और प्रशिक्षण केंद्र
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Presentation Courtesy By:

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&

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EDUCATION PLANNING

Education is like roots of the plant (hidden but most essential).



Permits HRD/ Basic Research/Applied Research



Skilled manpower played a major role in developing technologies and their dissemination to farming community.



HR developed is responsible for green, white, yellow and blue revolutions for increasing food grain, milk, oilseed and fish production.



Showing multiple benefits – personality changes to efficiency, skill building, productivity and outputs – publications, technologies etc.

AIMS OF EDUCATION IN AGRI UNIVERSITIESG

Steer the University into the arena of academic excellence.

Create new field of Knowledge, skill, ability & experiences.

Development of Human Resource and Technologies for enhancing production, productivity and profitability.

Foster a vibrant, successful and interactive research community that generate ideas and discoveries.

Promote impact-driven multidisciplinary research and converting research output to business outcome

Establish interface between University and Industries.

Ensuring quality education norms – Accreditation of all centres of higher agricultural education.


Student centred learning, knowledge, skill and entrepreneurship development.

NATIONAL PERSPECTIVES

- ❖ **Sustain the momentum of enhancing food production and ensure the food security for future.**
- ❖ **Develop skilled human resource as per changing needs of agriculture and related markets.**
- ❖ **Create rich learning environments and prepare learners for their role in society.**
- ❖ **Position Indian Agricultural Education on global platform.**



AGRI UNIVERSITIES ARE IN NEED OF

- ❖ **Good Governance (ICAR Model Act for providing base for functioning and uniformity in agri education across the country)**
 - ❖ **Quality assurance (Accreditation Board)**
 - ❖ **Faculty Competency**
 - ❖ **Talented Students**
 - ❖ **Visibility of Universities among different stakeholders**
 - ❖ **Infrastructure Development**
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STEPS FOR TRANSFORMING AGRICULTURE EDUCATION

- ❖ **Strengthening governance and leadership**
- ❖ **Foster institute- industry interface**
- ❖ **Improving Quality of teaching learning and research**
- ❖ **Encourage innovation and entrepreneurship**
- ❖ **Make a national concerted initiative for improving Agriculture Education**



NAHEP: AT A GLANCE

- ❖ **NAHEP is to support participating AU's and ICAR in providing more relevant and higher quality education to students.**
- ❖ **Success of education program depend on quality of faculty, learning focused and career-oriented curricula and necessary laboratory and farm facilities leading to better employment outcomes for students.**
- ❖ **NAHEP aims to conceptualize a number of important reforms under two broad categories, i.e.**
 - **Focusing on the working mechanism of the AU's.**
 - **Raising the standard of campus teaching and learning in more non-conventional ways.**

ATTRACTING TALENTED STUDENTS

**SCHOLARSHIP , FELLOWSHIP, NEW COURSES &
BETTER JOB OPPORTUNITIES**

Recognizing and honoring Outstanding Scientists

Adjunct Professor, Visiting Professor and training

Increasing Faculty Competency

**Summer / Winters Schools and Short Courses, CAFT,
Need-based Advanced Trainings, NAE and more**

Creating visibility of AU's

**Infrastructural development, Basic and Applied
Research and industries interaction**



ELIGIBILITY

NAHEP targets Agricultural Universities in the ICAR System:

- ❖ **Including State Agricultural Universities, State Veterinary Universities, State Horticulture Universities and State Fishery Universities established under the Acts of State Legislative Assemblies ,**
- ❖ **Central Agricultural Universities established under the Acts of Parliament,**
- ❖ **ICAR Deemed to be Universities and**
- ❖ **Central Universities having Agricultural faculty.**

COMPONENT 1: SUPPORT TO AGRICULTURAL UNIVERSITIES

This component will have three sub-components:

- ❖ **Sub-component 1A: Investments toward 21st Century Agricultural Universities (Implementation of Institutional Development Plan / IDP).**
- ❖ **This grant will be given for institutional development to 10 selected AU's on a competitive basis. This will target accredited AUs.**
- ❖ **The IDPs would seek to improve:**
 - **Learning outcomes and future employment for AU students for UG education and**
 - **Faculty teaching performance and basic research effectiveness for knowledge generation.**

- ❖ **Each IDP would be linked to performance and quality enhancement.**
- ❖ **The selected universities would act as a model to introduce reforms in other agricultural universities.**
- ❖ **The AUs would identify and prioritize key challenges, propose interventions to respond to these challenges, and set timelines and indicators for measuring achievement of greater quality and relevance attributable to these interventions.**
- ❖ **Each AU would receive specialized support from ICAR and the External Advisory Panel during IDP development.**
- ❖ **IDPs would draw on consultations with stakeholders, including faculty, administrators, students and industry.**

- **IDP funding would be performance-linked. It would include:**
 - ❖ **Capacity building and training for agreed governance reforms that promote AU autonomy and sustained accreditation.**
 - ❖ **Improved infrastructure (i.e. renovation and modernization of existing facilities) for research and teaching.**
 - ❖ **Faculty development (training, consultant services).**
 - ❖ **Networking with industry and other learning institutions, both national and international.**
 - ❖ **Increased vocational education through the launching of relevant programs.**
 - ❖ **More effective student job placement.**
 - ❖ **Own-revenue generation through consultancies, testing and certification for AUs.**

The IDP would

- ❖ Demonstrate the role of reforms in governance and increasing system's **internal efficiency through the piloted programmes/courses**.
- ❖ Ensure compliance with ICAR's policies and reforms introduced, and strengthen quality assurance mechanisms.
- ❖ Enhance quality of **human resource development** and competence of faculty.
- ❖ **Take up strategic planning and**
- ❖ **Attract and shape young talent to agricultural education and profession.**



SUB-COMPONENT 1B: INVESTMENTS IN CENTERS FOR ADVANCED AGRICULTURAL SCIENCE AND TECHNOLOGY.

- ❖ **CAAST would provide grant to selected ICAR-accredited Agricultural Universities.**
- ❖ **The AUs will be competitively selected for the establishment of CAAST for knowledge generation and teaching aids for PG and doctoral level.**
- ❖ **The sub-component would finance:**
 - **Research and teaching** equipment (i.e., goods).
 - **Faculty and scientist development** fellowships.
 - **Student scholarships, primarily at the PG level** and
 - **Costs associated with twinning arrangements with similar centers (e.g., universities, research centers) both outside and within India (i.e., training, consultant services, and non-consultant services).**

- ❖ CAAST would support AUs in setting up Interdisciplinary Centers in the areas of importance and present state-of-art technology.
- ❖ Based on an assessment of key knowledge challenges expected to be faced by Indian agriculture and the expected need for skilled graduates and postgraduates in these areas in the future, thrust areas will be selected for setting-up CAAST.
- ❖ The emphasis will be **on participation of industries in these centers for skill development** for enhanced education, employability and entrepreneurship.



SUGGESTED THEME OF CAAST

- ❖ A **maximum** of 10 CAAST will be selected from different sub-sectors of Indian agriculture on a competitive basis.
- ❖ Suggested themes would include- : Conservation Agriculture, Precision farming / Farm Mechanization, Secondary Agriculture, Specialty agriculture, Renewable Energy Sources, Integrated Farming System (IFS), Agriculture Market Intelligence, Good Agricultural Practices, Hitech/Protected Cultivation, Climate Resilient Agriculture, Food Safety, Big Data Analysis and Genomics-assisted Breeding.
- ❖ The above list is only indicative and Programme Committee and Project Management Committee will take the final decision on the relevance and importance of the theme while considering a proposal.



AN INDICATIVE LIST OF ACTIVITIES TO BE FINANCED UNDER SUBCOMPONENT 1B INCLUDES:

- ❖ **New PG course development and existing PG course revision, with emphasis on applied problem solving and entrepreneurship.**
 - ❖ **Development of certificate courses for skill development in areas such as high-tech horticulture, food processing and precision farm technology.**
 - ❖ **Master and Ph.D. students sandwich program to facilitate student exposure to national and international universities.**
 - ❖ **Modern research facilities to conduct high-quality advanced research by faculty and students.**
 - ❖ **Faculty upgradation through international and national training with mentor universities.**
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- ❖ Targeted research collaboration with national and international centers of excellence to increase both faculty/student productivity and research quality.
- ❖ Adjunct/Visiting Professorship opportunities to stimulate innovation in ongoing PG research and to mentor PG students.
- ❖ Distinguished Lecture Series/Special lectures to bring about much needed vibrancy in the academic atmosphere and inspire students and faculty to perform better.
- ❖ Collaboration with private sector, industry and civil society organizations related to the specialized areas to develop market-oriented programs and produce industry-ready graduates.
- ❖ Transfer of technology to end users, e.g., farmers through KVKs so that the research-education-extension synergy is revitalized.

MINIMUM REQUIREMENTS FOR CAAST


- ❖ **In addition to accreditation, AUs would be required to verify the qualifications and experience of faculty and staff to successfully establish and maintain the proposed CAAST, including:**
 - **Faculty and Research Staff Strength: At least 10 permanent multi-disciplinary faculty with expertise and research accomplishment relevant to the proposed CAAST.**
 - **Scientific partnership with national and international professional institutions.**
 - **Existing and functional advanced center in the proposed thematic area.**

SUB-COMPONENT 1C:

ICAR innovation grants to AUs.

- ❖ **Would provide Innovation Grants to selected participating AUs for carrying out of Innovation Plans.**
- ❖ **The innovation Plans would support technical assistance and consultant services required to:**
 - (a) make AUs to attain accreditation**
 - (b) promote mentoring of non-accredited AUs by existing accredited AUs and other interstate and international academic partnerships.**
- ❖ **The Sub-component is primarily meant for those AUs that has not yet attained ICAR accreditation.**

COMPONENT 2: INVESTMENTS IN ICAR FOR LEADERSHIP IN AGRICULTURAL HIGHER EDUCATION

- ❖ **It would finance institutional reforms within ICAR in order to enhance ICAR's effectiveness in coordinating, guiding and managing agricultural higher education.**
 - ❖ **Prompting interactions with AUs and key stakeholders nationwide through interventions that increase the quality and relevance of agricultural higher education.**
 - ❖ **As ICAR is responsible for quality assurance, the component would leverage ICAR's comparative advantage in assessing systemic challenges across the ICAR-AU System and incubating solutions.**
 - ❖ **The component would finance goods, training, consultant and non-consulting services and incremental operating costs.**
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This would include:

- ❖ **Assessing options in the administration and award of ICAR's technical and financial assistance to AUs.**
- ❖ **Interaction with State governments to catalyze their participation in raising the quality and relevance of agricultural higher education.**
- ❖ **Providing assistance to participating AUs for the development of IDPs, CAASTs and Innovation Plans.**
- ❖ **Establishing partnerships with globally recognized agricultural higher education institutions.**
- ❖ **Developing digital information systems for agricultural data collection, analysis and dissemination.**
- ❖ **Improving curricula review processes and methods to consolidate and disseminate global best-practices in agricultural education.**



- ❖ **Improving the all-India entrance examination in agriculture, including an on-line national examination system.**
- ❖ **Adopting next-generation management systems covering information, procurement, contract and financial management areas.**
- ❖ **Coordinating an External Advisory Panel of renowned agricultural education experts.**
- ❖ **Assisting agricultural universities to strengthen their linkages with industry and**
- ❖ **Promoting the establishment of centers for career development at agricultural universities.**



COMPONENT 3: PROJECT MANAGEMENT AND LEARNING

- ❖ **The major activity will be project implementation and monitoring at New Delhi, with a full-fledged Project Implementation Unit headed by the Deputy Director General (Agricultural Education), ICAR as the National Director.**



SHORT LISTING OF CONCEPT NOTES:

- ❖ **Concept Notes for Component 1a, 1b and 1c is invited and will be selected through a competitive process.**
- ❖ **Full project proposals will then be invited from the successful and selected Agricultural Universities.**
- ❖ **Format on which the Concept Note is to be submitted by the AUs is given in ICAR website.**
- ❖ **The Concept Notes will be screened and evaluated by the NAHEP Technical Committee and recommended for preparing full proposals.**
- ❖ **Eligibility criteria for short listing of Concept Notes are given in ICAR website.**



EXPENDITURE TO BE FUNDED:

- ❖ Expenditure on **goods & equipments**, capacity building, **renovation of labs**, TA/ DA, **workshops/ meetings**, contractual staff, **operational costs** and institutional charges will be considered for funding.
- ❖ **The financial limits will depend on the nature of the full proposals and will be decided by the Competent Committee(s).**



GENERAL INFORMATION ABOUT SUBMISSION OF CONCEPT

NOTES:

- ❖ **The Concept Notes have to be submitted in a prescribed format available on the website electronically by email to ddgedn@gmail.com or by post to Deputy Director General (Agri. Education), Room No. 207, Krishi Anusandhan Bhawan II, Pusa Campus, New Delhi-110012.**
- ❖ **The decision of the Competent Committee will be final.**
- ❖ **Submission of a Concept Note will indicate that the proponent agrees to abide by the eligibility criteria of the NAHEP.**
- ❖ **The last date of submission of Concept Notes is 31.08.2017 upto 4.00 PM.**

EXPECTED OUTCOME



- ❖ **Education for producing human resource for research and for ever green revolution in Society.**
- ❖ **Education for Employment and Entrepreneurship.**
- ❖ **World class IT capability in different practices.**
- ❖ **Education for increased efficiency in inputs & thus higher productivity, enhanced income and environmental protection.**
- ❖ **Quality education for global competitiveness**
- ❖ **Creating models to play a key role in ‘Digital Initiative’, ‘Skill Initiative’ and ‘Make in Initiative’ programme.**

**To increase the relevance and quality of
Agricultural Education in selected
Agricultural Universities**

Budget With ICAR: Rs. 1100 cr

50:50 Basis (World Bank Aided Project)



Component	Eligibility
1 A	AUs/Colleges with ICAR accredited UG and PG programmes
1 B	AUs with ICAR accredited PG programmes
1 C	Any accredited or non-accredited AU

Participants in Components 1 is on a competitive basis; IDP and CAAST are mutually exclusive i.e. any AU selected for both can avail either of them only



1A - Institutional Development Plan (IDP)

Some Illustrative Activities Under Institutional Development Plan

- **Modernization/renovation/refurbishment**
- **Updating learning resources**
- **Establishment or upgrading computer department**
- **Faculty and student development**
- **Skill development**
- **Enhancement of consultancy activity**
- **Establishing and leveraging alumni networks**
- **Institutional reforms**



1B - Centre for Advanced Agricultural Science and Technology (CSSAT)

The guiding principles:

- i) the proposed CAAST is for strengthening education through research leading to skill, employment and entrepreneurship;
- ii) the proposer should have a critical mass of multi-disciplinary faculty (at least 10) working in the thematic mode under one roof area as evident by the empiricism/publication/patent revenue to support their claim for a CAAST;
- iii) establishment of totally new area/theme may not be encouraged; and
- iv) thrust will be on faculty-student development, industry interface, job orientation, skill development, etc.;

Indicative Themes

- **Conservation Agriculture**
- **Precision Farming**
- **Secondary Agriculture**
- **Speciality Agriculture**
- **Non-Renewable Energy Sources**
- **Integrated Farming System**
- **Agricultural Market Intelligence**
- **Good Agricultural Practices**
- **Big data Analysis**
- **Genome Editing**
- **Soil Health Management**
- **Pressurised Irrigation**
- **Seed and Planting Material**
- **Hi-tech Horticulture**
- **Bio-waste Utilization**
- **Dairy Foods and Safety**



Illustrative Activities Under Centre for Advanced Agricultural Science & Technology (CAAST)

- **Modernization/renovation/refurbishment of laboratory facility and upgradation of equipment**
- **Establishment of state of the art laboratory**
- **Faculty and student development programme**
- **Skill Development programs with industry participation**
- **Enhancement of consultancy competence of CAAST**



1C - Innovation Grants

Activities under Innovation Grants

- **Support Innovation Plans in Education**
- **Facilitate AUs to be reform ready**
- **Mentoring of non-accredited AUs**
- **Interstate and international academic Partnerships**

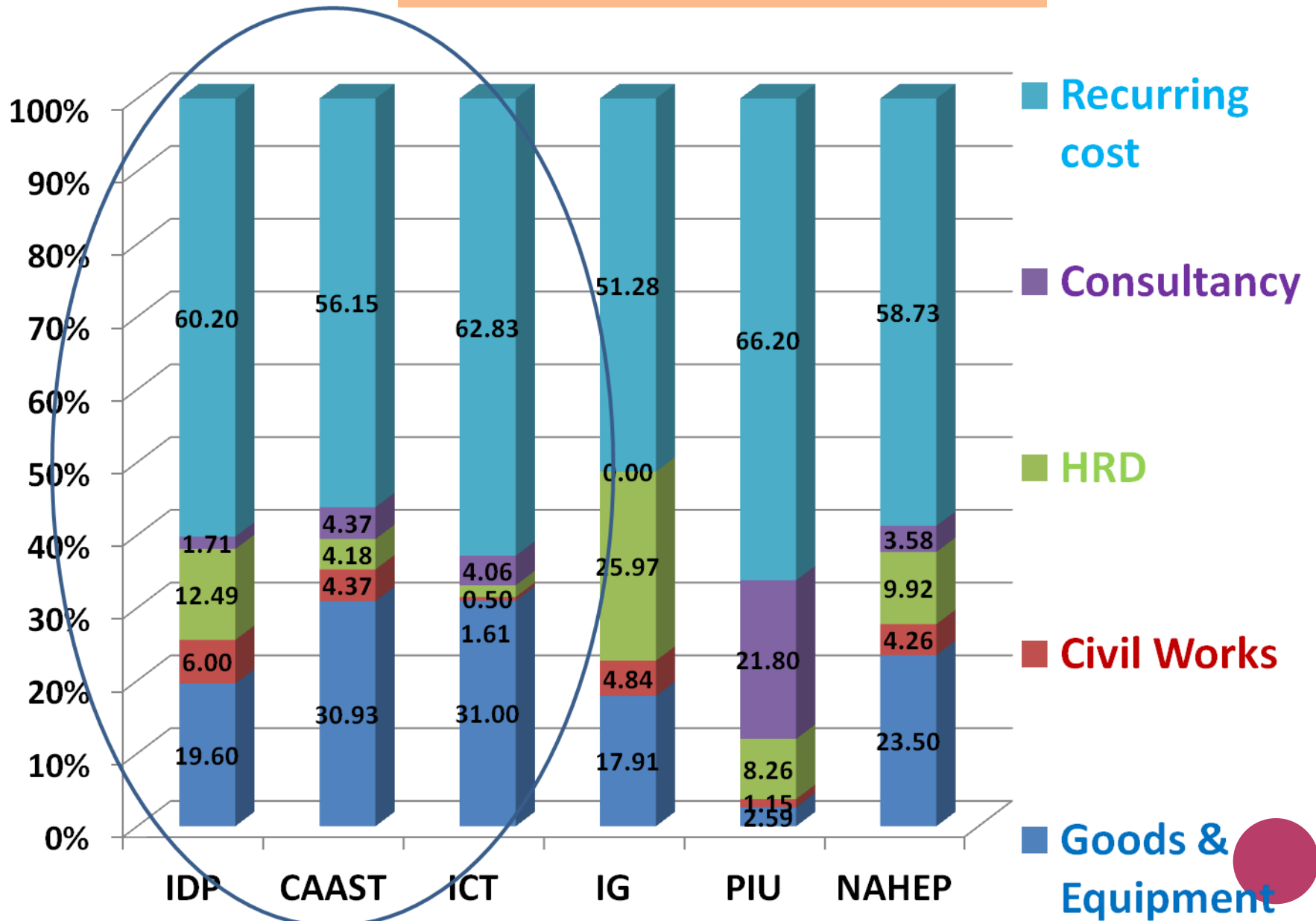


Synergy and convergence with other Departments/Programmes

- **Skill India**
- **Digital India**
- **UGC – World Class Universities**
- **MHRD – National Initiative on Design Innovation**



Budget Composition of NAHEP (%)



Concept Note Development

Elements of the CN – Funding Agency's Perspective

- ✓ **Return of the investment**
- ✓ **Shift from teaching to learning outcome**
- ✓ **Skill, entrepreneurship & employability**
- ✓ **Industry participation**
- ✓ **Faculty-student diversity**
- ✓ **Improved faculty competence**
- ✓ **Increased student placement rate**
- ✓ **Gender empowerment**
- ✓ **Delegation of powers beyond project**



Concept Note Format

NATIONAL AGRICULTURAL HIGHER EDUCATION PROJECT Format for Concept Note – CAAST/IPD/IG

(Concept note should be in 4-5 pages of A4 Size, 12 font Times New Roman of MS Word and submitted by email at ddgedn@gmail.com or by post).

A: Participating AU Details

1. Name of the AU:
2. Date of Establishment of the institute
3. Mandate of the institute
4. Name of the present Vice-Chancellor
5. Postal Address of the AU:
6. Telephone Number (With STD Code):
7. Fax No.:
8. Email Address:
9. Nodal Officer Details

Name of the Nodal officer:

Designation:

Telephone No.:

Email:

Fax No.:

10. Number of constituent or on campus colleges and college-wise number of students:
11. Number of college-wise faculty/scientists associated with teaching:
12. Major contribution of the AU in relevant field of teaching and research (not more than 10 bullet points including patents, technologies developed, etc.)
13. Total Annual Budget of the AU (for the last 5 years in Rs. lakhs):

Concept
Note
Development



Concept Note Development

B: Project Details

1. Title of the Project:
2. The background information on scope and purpose of the proposed IDP/CAAST/IG
3. Objectives:
State clearly how the objectives of the proposed IDP/CAAST/IG will lead to development of skills, entrepreneurship, employability of students, improved faculty performance, academy-industry interface, revenue generation, autonomy and institutional reform outcomes that will enhance the quality and relevance of agricultural higher education.
4. State clearly the hypotheses defining the problem and prospects of the proposed IDP/CAAST/IG
5. Work Program (one page):
Work plan for each objective
Activity chart for each objective
Training Need Assessment
Benchmark
6. Stakeholder/Industry participation plan
7. Proposed Duration of the Project
8. Total Funds proposed: (Rs. in lakh)
 - A. Revenue/recurring costs (including operational cost, contractual services and travel cost, etc.):
 - B. Capital Cost (equipment and only essential minor civil works)
 - C. Consultancy, if any
9. Expected outputs/Outcome
10. Manner in which the proposal will be developed if the Concept Note is accepted
11. Brief the probable consultation processes to be involved in the development of the full proposal.



- Research Teams formation from Each College
- IDPs Work plan to be decided from each college
- CAAST to be decided- Only one
- Innovation Grant-one only

Grant pattern:

IDPS: 35 crore

CAAAT: 20-25 crore

Innovation grant: 5.0 crore



जय किसान

जय विज्ञान



Thanks

