#### STANDING COMMITTEE ON AGRICULTURE

# STANDINGCOMMITTEE ON AGRICULTURE (1999-2000)

THIRTEENTH LOK SABHA
MINISTRY OF AGRICULTURE

(Department of Agricultural Research and Education)

**DEMANDS FOR GRANTS (2000-2001)** 

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## COMPOSITION OF THE STANDING COMMITTEE ON AGRICULTURE (1999-2000)

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#### **PREFACE**

- I, the Chairman, Standing Committee on Agriculture having been authorised by the Committee to submit the report on their behalf, present this SeventhReport on Demands for Grants of the Ministry of Agriculture (Department Agricultural Research and Education) for the year 2000-2001.
- 2. The Standing Committee on Agriculture was constituted on 31<sup>st</sup>December, 1999. One of the functions of the Standing Committee as laiddown in Rule 331E of the Rules of procedure and Conduct of business inLok Sabha is to consider the Demands for Grants of the concerned Ministries/Departments and make a report on the same to the Houses. The report shall not suggestanything of the nature of cut motions.
- 3. The Committee took evidence of the representatives of the Ministryof Agriculture, Department of Agricultural Research & Education on 28<sup>th</sup> March, 1999. The Committee wish to express their thankshe officers of the Ministry of Agriculture, Department of Agricultural Research and Education for placing before them, the material and information which they desired in connection with the examination of Demands for Grantsof the Ministry for the year 2000-2001 and for giving evidence before the Committee.
- 4. The Committee considered and adopted the Report at there sittingheld on 10<sup>th</sup> April, 2000. New Delhi;

PALANIMANICKAM,

10<sup>th</sup> April, 2000 Chairman, 21 Chaitra, 1922 (Saka)

Agriculture

Standing Committee on

## PART-I CHAPTER I

**INTRODUCTION** 

## **Department of Agricultural Researchand Education**

1.1 The Department of Agricultural Research and Education(DARE) was established in the Ministry of Agriculture in December, 1973. It provides the necessary governmental linkages for the Indian Councilof Agricultural Research (ICAR). The major functions of the DARE are reported to be as under:

- 1.To look after all aspects of agricultural research and education (includinghorticulture, natural resources management, agricultural engineering, agriculturalextension, animal science, economic statistics and marketing and fisheries)involving coordination between the Central and State agencies.
- 2.To attend to all matters relating to the Indian Council of AgriculturalResearch.
- 3.To attend to all matters concerning the development of new technology inagriculture, horticulture, natural resource management, engineering, extension, animal husbandry, economic statistics and marketing and fisheries, including such functions as plant and animal introduction and exploration and soiland land use survey and planning.
- 4.International co-operation in the field of agricultural research and educationincluding relations with foreign and international agricultural researchand educational institutions and organisations, including participationin international conferences, associations and other bodies dealing withagricultural research and education and follow up of decisions at suchinternational conferences etc.
- 5. Fundamental applied and operational research and higher education including coordination of such research and higher education in agriculture including agroforestry, animal husbandry, dairying, fisheries, agricultural statistics, economics and marketing.

#### Indian Council of Agricultural Research

1.2 The Indian Council of Agricultural Research(ICAR) was established in May 1929 as the Imperial Council of AgriculturalResearch. It was registered as society under the societies RegistrationAct XXI of 1860. Its name was changed to Indian Council of AgriculturalResearch in June, 1947 and was registered as such in January, 1976. Itruns institutes/laboratories and research centres/project directorateslocated in different parts of the country in field of Agriculture, AnimalSciences and Fisheries. The Council is financed mainly by grants from theCentral Government. Within the overall framework of Government policies, the ICAR is vested with full authority to determine basic strategies, formulateoperational policies, developing necessary programmes and to ensure theirimplementation on sound technical and economic principles.

The Union Minister for Agriculture and the Ministerof State in the Ministry are respectively President and Vice-President. The Governing body of the Council is headed by the Director General, ICARwho is also the Secretary to the Government of India. The body constitutes of three Members of Parliament, three Vice-Chancellors of Agricultural Universities, three Directors of ICAR Institutes, three Scientists (outside ICAR), Secretaries to the Government of India in the Department of Expenditure (Ministry of Finance), Planning Commission and the Department of Agriculture and Cooperation, the Chairman of UGC, the Chairman of Atomic Energy Commission, 3 farmers representatives and the Secretary, ICAR as Member Secretary. This body assists the Council in deciding policies and controls the budget and is assisted by the following Committees/Panels:

- 1.Standing Finance Committee for examination of schemes involving financialimplications and also the Annual Budget of the Council before submission to the Governing Body.
- 2.Accreditation Board for matters relating to accreditation, maintenanceof education standards and development of Agricultural Universities.

- 3. Eight Regional Committees constituted for eight broad agro-ecological regions of the country.
- 4. Scientific Panels to consider adhoc schemes and projects relating to different disciplines.
- 5. Joint Panels between ICAR and related research organisations like the IndianCouncil of Medical Research, National Dairy Development Board, CentralWater Commission and Indian Institute of Management.

#### Mandate of ICAR

- 1.3 The Indian Council of Agricultural Research(ICAR) as an apex scientific organisation of national level, plays a crucialrole in promoting and augmenting science and technology programmes relatingto agricultural research, education and demonstration of new technologiesas first line extension activities. To fulfil its mission, the councilis reported to have set itself to achieve the following mandate:
  - 1.To plan, undertake, aid, promote, and coordinate education, research andits application in agriculture, agroforestry, animal science, fisheries, home science, ESM, engineering and allied sciences.
  - 2.To act as a clearing house for research and general information relatingto agriculture, animal husbandry, home science, fisheries, ESM, engineeringand allied sciences through its publications and information system and instituting and promoting transfer of technology programmes.
  - 3.To provide, undertake and promote consultancy services in the field of research, education, training and dissemination of information in agriculture, agroforestry, animal science, fisheries, home science, ESM, engineering and other allied sciences.
  - 4.To look into the problems relating to broader areas of rural developmentconcerning agriculture, including post harvest technology by developing co-operative programmes with other organisations such as the Indian Council Social Science Research, Council of Scientific and Industrial Research, Bhabha Atomic Research Centre, Universities etc.
  - 5.To do other things considered necessary to attain the objectives of the Council.

#### **Activity Spectrum of ICAR**

- 1.4 The Council performs research, educationand first line extension service and other identified programmes with specificobjectives. During the 3<sup>rd</sup> year of IX Plan, i.e. 1999-2000,the following 189 plan schemes were implemented in addition to ForeignAided Projects.
  - 81 Institutes comprising 46 Central Institutes, 4 National Bureaux and 31 National Research Centres.
  - 89 Projects including 9 Projects Directorates and 80 All India CoordinatedResearch Projects/ Network Programmes.
  - 12 other Plan Projects, World Bank Aided Projects and 3 Externally AidedProjects.

An abridged account of major activities of the ICAR is presented below. Agricultural Research

1.5 The Council plays a crucial role in promotingscience and technology and its application in Agriculture. Primarily, fundamentaland applied research in traditional and frontier areas is undertaken bythe Council to offer solutions to problems relating to conservation andmanagement of resources, productivity improvement of crops, animals andfisheries etc. For formulating research policies and programmes, the ICARhas developed a national grid comprising of a chain of 46 Central Institutes,4 National Bureaux, 9 Project Directorates (PDs), 31 National

ResearchCentres (NRCs) and 81 All India Co-ordinated Research Projects (AICRPs)with their centres located in different agro-ecological regions of thecountry. The Coordinated research activities are not only multi-institutionalbut are also multi-disciplinary and multi-locational to cover whole spectrumof various situations and conditions. Above all, it is stated that themost important strength of these efforts lie in the national cooperativetesting and minimising the rigorous of the screening of varieties and technologiesbefore these are passed on to the farmers for achieving desired results.

The ICAR claims at present that it is equipped with a strong agricultural research and educational system and the system has the ability and resilience to transform the agrarian economy through increased productivity, self sufficiency and self reliance in food and fodder cropsand other essential commodities with excellent export potential.

## **Agricultural Education**

1.6 The Council aids, promotes and coordinatesagricultural education programmes at national level. The major thrust inthis area was given from early 1960s when the first agricultural universitywas established in the country. Since then the Council has invested overRs.200 crore in developing the agricultural university system. The educational programmes are by and large, carried out by 28 State Agricultural Universities(SAUs) of the country covering 16 major States. One Central Agricultural University (CAU) for NEH Region has also been established at Imphal tohelp and support the human resource development needs of the region. Inaddition to these, 4 National Institutes of the Council viz. Indian Agricultural Research Institute (IARI), Indian Veterinary Research Institute (IVRI), National Dairy Research Institute (NDRI) and Central Institute of Fisheries Education (CIFE) have been granted the status of deemed to be university. These institutes offer post graduate degree programmes in addition to undertaking researches in their respective areas.

The World Bank supported Agricultural Human ResourceDevelopment Project (AHRDP) was launched on 14<sup>th</sup> August, 1995with a total outlay of Rs.33.70 crore aimed at improvement in quality ofagricultural human resource through a series of steps including development of infrastructure, training of scientists and procedural reforms for bringingefficiency and accountability in the system.

#### **Agricultural Extension**

1.7 The ICAR discharges the responsibility oftechnology assessment, refinement and dissemination through frontline demonstrationsof latest agricultural technologies to farmers, extension functionariesof State Agricultural Departments and other non-governmental agencies. All the Technology Transfer programmes of the Council have been broughtunder the canopy of integrated Krishi Vigyan Kendras (KVKs) for bettercoordination and support. A network of 261 KVKs are established in thecountry, which are imparting on-farm training in different aspects of agriculture, animal science, fisheries and allied vocations to youths, farm men andwomen and rural workers. These programmes get a back-up support through8 Trainers Training Centres to update knowledge of farm worthy advancementsmade in research. These programmes are closely monitored by 8 Zonal Coordinators. During VIII Five Year Plan, ICAR has also piloted a new Institutions Village-LinkageProgramme (IVLP). The concept is based on participatory mode ensuring greaterscientist-farmer linkage in a `bottom-up approach. It will ensure accessto

agricultural technologies generated by the entire institute or for thatmatter by the entire agricultural research system in the country, to theentire farming community in a village or cluster of villages representing around 1000 farm families. Under IVLP 42 Centres have been taken.

The Division of Agricultural Extension jointly withthe Division of Crops of ICAR has initiated a project on Technology Evaluationand Impact Assessment for testing of various crop production technologiesat final stage trials for providing feedback on response of the farmers. This project has been initiated in 60 KVKs of various States. The cropsincluded for the project are cereals like rice, wheat, pearl millet, maizeand sorghum, oilseed, like groundnut, mustard, castor, toria, sunflowerand niger and pulses like urd bean, pigeon pea, chickpea and cowpea.

The technology generated by Institutions under ICARand coordinated research projects/ programmes, are by and large, orientedto improve the socio-economic status of the farmers irrespective of their caste and creed. Through vocational training, the target group acquiresspecial skill for improvement in the production of traditional and non-traditional crops, agro-forestry, agriculture, sericulture, animal husbandry, poultry, fisheries and post harvest technology.

## **ICAR Through Successive Five Year Plans**

1.8 The ICAR came under formal ambit of thePlanning system during the IV Five Year Plan. The planning processhas been based on four cardinal objectives; growth; self reliance, socialjustice and modernisation. The R&D scheme in agriculturehave a focus on these objectives to achieve increased productivity throughbetter management, techonological upgradation and modernisation of agricultural practices. Over the various plan periods, the thrusts and the priorities of ICAR activities have been centred on filling in the major gaps and solving the outstanding national problems. Table below shows some of these plan schemes successively implemented during the plan periods. Overthe years, the objectives and mandates of the schemes have been modified, resource redeployed and the necessary infrastructural facilities developed periodically, so as to help the various R&D units to develop farmworthytechnologies leading to significant advances in production of agricultural products and by-products.

#### PLAN-WISE IMPLEMENTATION OF NEW SCHEMES IN IDENTIFIED AREAS

## IV Five Year Plan 1969-73

- (i) Pre-release multiplication of new seed
- (ii) AICRPs for Research on Water Management; Use of SalineWater in Agriculture; and Manufacture of

Prototypes and Engineering Equipments.

(iii) Research Information, Planning and Coordination Units at ICARHeadquarters.

#### V Five Year Plan 1974-78 & Rolling Plan 1978-79 & 1979-80

- (i) Central Institute of Agricultural Engineering
- (ii) Central Institute of Cotton Research
- (iii) National Bureau of Soil Survey and Land Use Planning
- (iv) Vivekanand Parvatiya Krishi Anusandhan Shala

- (v) Central Soil & Water Conservation Research & TrainingInstitute
- (vi) National Bureau of Plant Genetic Resources
- (vii) ICAR Research Complex for NEH Region
- (viii) National Academy of Agricultural Research Management
- (ix) Central Agricultural Research Institute
- (x) Central Institute for Research on Goat
- (xi) Central Avian Research Institute
- (xii) National Research Centre on Groundnut
- (xiii) All India Coordinated Research Projects-Seed Borne Diseases; Nematodes; Rodent Control, Biological Control; White Grub; Honey Bee Research; Biological Nitrogen Fixation; Improvement of Diaraland; Long Term Fertilizer Experiment; Intensive Testing of Power Tillers; Agricultural Drainage; Home Science
- (xiv) National Agricultural Research Project
- (xv) National Seed Project (IDA/WB)

#### VI Five Year Plan 1980-85

- (i) Central Institute for Research on Buffaloes
- (ii) National Bureau of Animal Genetic Resources
- (iii) Central Institute of Animal Genetics
- (iv) Central Research Institute for Dryland Agriculture
- (v) Central Institute of Horticulture for Northern Plains
- (vi) National Research Centre on Mushroom
- (vii) National Camel Breeding Centre
- (viii) National Equine Breeding Centre
- (ix) All India Coordinated Research Project on--Under-Exploited andUnder-Utilized Crops; Betelvine Research; Mushroom Research; PesticidesResidues; Renewable Energy Resources; Agro-forestry; Agro-meteorology; PHT- Horticulture and Economic Ornithology
- (x) Fellowship/Scholarship; Krishi Vigyan Kendras; and Operational ResearchProject for improving the Socio-Economic conditions of Scheduled Castes/Other Backward Classes.

#### VII Five Year Plan 1985-90

- (i) ICAR Research Complex, Goa
- (ii) Indian Institute of Soil Science
- (iii) Central Institute of Post Harvest Engineering & Technology
- (iv) Central Institute of Brackishwater Aquaculture
- (v) Central Institute of Freshwater Aquaculture
- (vi) National Bureau of Fish Genetic Resources
- (vii) National Research Centres on Integrated Pest Management; Sorghum; Soyabean; Agroforestry; Meat & Meat Product Technology; AnimalHealth; Animal Production; Yak; Mithun; and Cold Water Fishery; Water TechnologyCentre and Biotechnology Centre for Crop Sciences. (viii) Coordinated Research projects on Agricultural Acarology; Guar; Increased Utilisation of Animal Energy through Enhanced Systems Efficiency; Application of Plastics in Agriculture;

Processing, Handling and Storageof Jaggery and Khandsari; Apple Scab; Betelvine Diseases; Weed Control; Immunoprphylactic Control of Intracellular Blood Protista; Monitoring, Surveillance

#### **NEW PROJECTS / PROGRAMMES INITIATED DURING VIII PLAN**

#### **Crop Science**

- 1. Indian Institute of Pulses Research
- 2. NRC-Rapeseed & Mustard
- 3. NRC-DNA Fingerprinting
- 4. PD-Biological Control
- 5. PD-Maize
- 6. AICRP-Chick Pea
- 7. AICRP-Pigeon Pea
- 8. AICRP-MULLARP
- 9. AICRP-Groundnut
- 10. AICRP-Rapeseed & Mustard

#### **Horticulture**

- 11. Indian Institute of Spices Research
- 12. NRC-Arid Horticulture
- 13. NRC-Banana
- 14. NRC-Grapes
- 15. NRC-Onion & Garlic
- 16. NRC-Orchids
- 17. NRC-Oil Palm
- 18. NRC-Medicinal & Aromatic Plants

#### **Agricultural Engineering**

19. AICRP-Human Engineering & Safety Studies

#### **Animal Science**

- 20. National Institute of Animal Nutrition & Physiology
- 21. Network-Micronutrients
- 22. Network-Embryo Transfer in Animal Production
- 23. Network-Animal Genetic Resources
- 24. R&D Support for Process Upgradation of Indigenous Milk Productsfor Industrial Application
- 25. Network Crop Based Animal Production System
- 26. Strengthening of Monitoring Mechanism and Training of Scientistsand Technicians (approved but not started)

#### **Fisheries**

27. Operational Research Project on Use of Organic Waste in Aquaculture

#### **Agricultural Extension**

- 28 a. National Research Centre for Women in Agriculture
- 28 b . Establishment of 78 new KVKs

### **Agricultural Education**

- 29 Central Agricultural University for NEH Region
- 30. Establishment of Centres of Advance Studies in SAUs &DUs
- 31. Strengthening of Post Graduate Education
- 32. Emeritus Scientists
- 33. Agricultural Human Resource Development

### **Management and Information Services**

- 34. Support to Professional Societies/National Academy of AgriculturalSciences
- 35. Guest House for ICAR Headquarters
- 36. ICAR Bhawan Phase II
- 37. National Agril. Science Centre & Museum Complex
- 38. ICAR Agricultural Library

#### **Foreign Aided Projects**

- 1. Indo-UK Project on Plan Germplasm Conservation-NBPGR
- 2. Japan Grant Project, Department of Quality Seed IARI
- 3. Indo-UK Collaboration between IGFRI-IGER (100% UK)
- 4. Indo-UK Project on Field Research into Tolerance of Wheat to SalinityStress
- 5. Indo-UK Project on Soil Salinity & Breeding Salt Resistant Crops(100% UK)
- 6. Indo-Dutch Operational Research Programme on Drainage & WaterManagement for Salinity Control
- 7. Indo-UK Project on Development Evaluation and Adoption of AgriculturalGroundwater Recharge Techniques in Punjab
- 8. Indo-UK Project on Transfer of Molicular Biological Technologies
- 9 Agricultural Human ResourceDevelopment

#### Strategies and Guidelines formed by ICAR

1.9 The ICAR needs to anticipateand adjust to a changing environment increasingly affected by local compulsionsand global forces. Forces such as market-led development, commercialization, environmental protection and limited governmental role in sectoralservices and resources allocations are emerging. However, foodsecurity and household nutrition still remains a major problem but indicationsare that future agricultral growth will rely increasingly on diversificationfrom traditional food crops towards higher value crops and value addedactivities. Agricultural sector growth which is an essential inputfor overall economic growth depends, even more than in the past, on agriculturalresearch, education and extension, to increase productivity, profitabilityand sustainability. To effectively perform this role, the missionof the Council should be to achieve excellency in agricultural research, education and extension, to establish appropriate networks and linkagesat national and international level and to develop appropriate technologiesfor increased production, productivity, conservation, value addition and marketing and trade so as to have increased profitability and sustainability of the agricultural sector.

Based on the above mission, ICAR outlined aset of guiding principles to be followed during the Ninth Five Year Planto usher in second Green Revolution in India, through a renewal processof National Agricultural Research System.

ICAR has to increase its research to a level wherethey are in a position to meet our current needs, assess for emerging trendsand accordingly structure research agenda so that they are neither caughtunaware nor do feel left behind.

They have to reorient their efforts to meet the futurechallenges which would be more need based and demand driven, and wouldrequire a matrix made approach as well as shift from the commodity/projectbased approach to systems/ programme based approach.

The new approach in the IX Five Year Plan has beenthrough Centres of Excellence, Network Programmes etc.

Ordinarily, there will be no regionalcentres attached to NRCs. Some of the All India CoordinatedResearch Projects will be shifted, merged with others or re-organised asnetwork programmes after critical review by high power Committee constitutedfor the prupose. Regional research structure of institutes will becritically examined for continuation/redeployment/transfer to other Institutes/SAUsas the case may be.

Emphasis has been on redeployment of scientificstaff based on existing cadre strength so as to meet newerchallenges and programmes.

A definite change is needed in their governance, functional efficiency, information management system, programme orientation, inter-disciplinary/inter-institutional linkages, HRD and above all effective linkages between technology generation and technology transfer involving scientists, farmers, NGOs and the private sector.

In many of the ICAR institutes and the SAUs,infrastructure and equipments are getting depreciated and obsolete, being2 to 3 decades old. These need critical support and upgrading. Major thrust will be given to modernization, strengthening laboratory,library, teaching and field facilities for improvement in efficiency andwork environment.

#### IX Five Year Plan (1997-2002) Objectives

- 1.10 The objective of the ICAR in the IX Plan hasbeen to enhance productivity, profitability, stability and sustainability of the agricultural systems so that the quality of life among every segment of current and future generations could be improved. The IX Planhas to lay a strong foundation for Evergreen Revolution in Indian Agriculture. To achieve this focus of the IX Plan has been on the following:- Conservation, Planned enhancement and utilization of agro-biodiversity.
- Enhancing productivity through evolution of high-yielding hybridsand varieties.
- Research on diversification, quality improvement, post-harvest technology, value addition and export-oriented commodities.
- Sustaining enhanced productivity of irrigated agriculture and judiciousdevelopment and use of energy, especially renewable sources of energy.
- Characterisation and development of sustainable land use modelsfor rainfed agriculture in highrainfall areas.
- Development of the Integrated Pest Management (IPM) and IntegratedNutrient Management System (INMS) approaches and systems for sustainableagriculture.
- Fostering excellence in relevant basic and strategic research.
- Generating research and technologies geared to promote equity amongregions, sectors of society and gender.

- Promoting integration of research, technology generation, assessmentand refinement and dissemination in area specific and production systemmode for combining food security. Poverty alleviation, rural developmentand conservation of natural resources.
- Strengthening social science, policy planning, agri-business, researchmonitoring mechanisms, administrations and personnel reforms, publicationand information dissemination system, sensitisation and empowerment of women for self-reliance and economic security.

#### **New Approaches to the Outstanding Problems**

1.11 The existing and ongoing schemes will becritically evaluated to examine their necessity for continuance. There would be optimization of available resources through proper planning, prioritization and coordination. However, certain programmes haveto be further strengthened and new initiatives have to be taken to fillin the critical gaps so that the targets of the IX Plan are achieved. Some of the important new initiatives that could be of immediaterelevance include the following:

Research- Establishment of National Research Centre on Millets

- Network on Transgenics
- Strengthening of Maize and Seed Technology Programme
- Setting up of National Bureau of Agricultural Micro-organisms
- NRC/Regional Station on Seed Spices
- Upgradation of Project Directorate on Vegetables, NRC on Arid Horticultureand NRC on Camel as Institutes
- ICAR Research Complex for Eastern Region
- Setting up a National Centre on Plant Virus Research
- AICRP on Engineering Measures for efficient Land & WaterManagement**Education**
- Strengthening of Central Agricultural University for NEH region
- One time catch up grant for upgrading teaching facilities
- Scholarship scheme for Indian agricultural scientists for study abroad
- Africa Fund/Fellowship Scheme to provide HRD back up to developingAfrican and other countries
- Rural Agricultural Work Experience
- National Talent Search Examination/Scholarships in agriculture science
- AHRD including development programmes in agricultural colleges notaffiliated to SAUs
- Vocational training in selected SAUs including rural women entrepreneurshipdevelopment
   No further proliferation of the agricultural universities will be allowed. Instead, they will be further strengthened in frontier areas of sciencewith greater relevance and excellence in their educational programmes.

#### **Agricultural Extension**

- Establishment of two Trainers training Centres oneeach on Vegetable Crops and Rural System Analysis
- Opening of 100 new KVKs and which includes 88 New KVKs and support to 12 Zonal Research Stations to function also as KVKs

- Continuation and addition of more centres of Institute Village LinkageProgramme

The financial outlay required to strengthen the existing programmes and to take up fresh initiatives in agricultural research and education for the IX Plan will be Rs.7,800 crore. The percentage resource allocation recommended for different sectors by the Working Group on Agricultural Research and Education for the IX Five Year Plan is given below:

Sector	Percent	resource alloc	ation
Crop Science		25	
Horticulture		10	
Animal Science		14	
Fisheries		06	
Agricultural Edu	cation	15	
Agricultural Exte	ension	10	
Soils			
Agronomy			
Agril. Engineerir	ng		
Agril. Economics	& Statist	ics 20	
Publication & Info	ormation		
Headquarters (IC	CAR)		

A critical review of the existing schemes and a serious thinking about important new schemes to be launched in the IXPlan is proposed to be carried out and all the promising schemeswhich are critical to maintain the tempo of progress made in the VIII Planwill be retained and further strengthened. Unimportant ones willbe reviewed, reoriented or phase out.

#### **Resource Generation/Mobilization**

1.12 There will be considerable emphasis on re-deployment of scientificstaff based onexisting cadre strength so as to meet the newer challenges and programmes.

The recommendations of Johl Committee on resourcegeneration through internal resource management and external funding sourceswill be implemented. Further, critical gaps in research will be attempted through externally aided projects like NATP, AHRD etc.

Funding support through Cess Fund Grants to ICARis critical. There should be an indexation of cess rates. The cess fund collected from sugarcane, cotton, spices, cashew etc. likeother commodities should also be made available to ICAR for conducting research on these commodities, so that priority problems could be addressed for required solution.

India is having vast infrastructure for agriculturalresearch and education. Unfortunately, we are not able to derive the full benefits from this infrastructure owing to sub-critical funding and inadequate experimental facilities. It is suggested that least 1% of agricultural GDP (which comes to about Rs.78,000 millionat current price) should be allocated to agricultural research and education in the IX Plan. Further, for modernisation of the National Agricultural Research System, a one-time catchup grant of Rs.5000 million is considered as most crucial at this juncture.

#### **Monitoring**

1.13 Effective implementation of the Plan resourcesdepends entirely upon the efficiency of the implementing machinery, which generally has bottlenecks in the shape of :-- Slow decision making

through a long heirarchical chain.

- Consequent dilution of accountability.
- Antiquated procedures, over dependence on written records and plethoraof paper work.
- Unbusinesslike rules and procedures. For effective planning there has to be vast improvementin data base, real time information and programme expertise not justin the Planning Unit, but in the Subject Matter Division also. A considerable amount of monitoring of the schemes would be done by appropriateunits with sufficient computer back up, to provide autonomy to the monitoringunits and allow for a system which operates with quick feed back mechanisms with numerical targets.

The ICAR has an operative monitoring system at differentlevels covering individual schemes/projects, sectoral programmes, agro-climaticzones, agricultural universities and regional priorities. The different monitoring activities carried out by the ICAR are as follows:

Report Content Headquarters ICAR	Periodicity and Timing	Coordinating Unit at the
Identification of critical areas and crops alongwith formulation of programmes to cover these gaps in a systematic manner over a 5 year period giving a year wise programme work, resource needs and financial requirements.	At the commencement of a Plan period	SMDs/PIM Unit
Proposed activity milestone for a particular year for programmes in thrust areas	One month prior to the commencement of a calendar year	SMDs/PIM Unit
Progress of Annual Action Plan targets	Annual	SMDs/PIM Unit
Technical Progress	Monthly	SMDs/TC
	Quarterly	SMDs/TC
	Annual	SMDs/TC
	Research highlights	SMDs/TC
Routine Financial Progress	Monthly	Financial Wing
Resource review including financial Wing/	Half Yearly	SMDs/Financial
and physical aspects	(September October)	PIM Unit
Mid Term review Wing/	Middle of Plan Period	SMDs/Financial
<del>v</del>		PIM Unit
Review of Plan Achievement Wing/	At the end of Annual Plan	SMDs/Financial
-	Period	PIM Unit

Planning Commission Working Five Yearly Review
Wing/PIM

1.14 It is possible to evaluate the researchoutput in terms of the work assigned on periodic basis for which more intensiveefforts will be made in future. Although the Subject Matter Divisionmonitor the scientific activities by participating in the Institute levelas well as by obtaining reports of their activities, there is no system for compiling the results of monitoring by way of critical appraisal ofactivities of regular intervals. Although annual plans and actionplans are prepared regularly, the task of monitoring and evaluation isvery difficult. An attempt is being made to prepare the plans showingactivities with specific time frame and more sharply defined objectives/targets.

SMDs/Financial

Unit

Although a Plan Implementation and Monitoring (PIM)Unit has been in existence at the ICAR Headquarters for quite sometime, it has not been possible to play effective role in monitoring of variousactivities. This unit needs strengthening so that it may actas the nodal point for scientific as well as financial monitoring. In order to do so, an Assistant Director General is heading this unit. Additional manpower will be added by redeployment. The endeavourwill be that up-to-date position regarding all the scientific activities should be available in the PIM Unit. This Unit will receivereports on the performance indicators in quantified terms from all the Subject Matter Division as well as from the Finance Division at regularintervals. These reports will be compiled and analysed. Theresults of analysis will be communicated back to various Subject MatterDivisions so that appropriate lessons could be drawn from the analysisand corrective measures, if necessary, could be taken.

#### **Sector-wise Summaries**

Group

- 1.15 A brief note on Plan Schemes is given belowfor:
- ? Schemes which were proposed in VIII Plan but could not bestarted
- ? Schemes to be merged/integrated/upgraded in IX Plan
- ? New Schemes in IX Plan

#### Scheme proposed in VIII Plan but could not be started

Sector Plan Schemes EAP Schemes
Crop Science AICRP on Biotechnology Indo-UK Collaborative
on Breeding for Biotic Stress Network Project on Whitefly

Soil, Agronomy& Network on Acid Soils AICRP
Agroforestry on Land Use Planning
Animal Science Strengthening, Monitoring and
Training of Scientists Vaccine and
Diagnostic Technique/Livestock
Farming System Meat Technology

Schemes to be merged/integrated/upgraded during IX Plan

Sector	Plan Schemes
Crop Science	Barley Network integrated with Directorate of Wheat Research
	AICRP Under-Utilised & Under-Exploited to be integrated
withNBPGR	
	Sugarbeet Network Project to be integrated with IISR
	AICRP Tobacco to be integrated with CTRI
	AICRP Rodent Control and Network Project on Economic
Ornithology	
	to be merged and renamed AICRP on Vertebrate Pest
Management	
	AICRP White Grubs; mandate to be enlarged and renamed
	AICRP/ Network on Soil Arthropods
	Strengthening of Advanced Centre for Biosystematic at IARI
	Regional Seed Production, Off season Nursery and research
centre	for Main and Branchastical Institute Biochemical (Main a Branchast)
	for Maize at Begusarai under the Directorate of Maize Research
	Strengthening seed technological researchs including Dus testing
l lautia di una	Establishment of a network on transgencies in crop plants
Horticulture	Merged
	AICRP Post Harvest Technology for Horticulture Crops and
	Project on PHT of Fruits and Vegetables will be merged to one
	project AICRP (PHT) for Horticulture Crops.  Upgraded
	NRC- Arid Horticulture to Central Institute for Arid Horticulture
Soil Agronomy &	PD-Vegetable Research to Central Veg. Research Institute
Agroforestry	Merged
rigiololostry	AICRP on Weed Control to NRC Weed Science and Cooperating
	Centres will continue to function as network.
	AICRP on Long-Term Fertilizer and Soil Test Crop Response to
	AICRP on Integrated Plant Nutrient System
	AICRP-BNF as a network with IISS
	AICRP-Tillage requirement as a network with P.D. Cropping
System	, werk. I mage requirement as a network that i 12. Grepping
Cycle	Research, Modipuram
	AICRP-Wells & Pumps to AICRP on Water Management and
	cooperating centres will continue to function as network
	AICRP Agroforestry to NRC Agroforestry and its centres to
continue	
	as Network.

Upgraded	
	Project Directorate Cropping System Research to Indian Institute
of	
	Sustainable Production Systems, Modipuram
	Project Directorate Water Management to ICAR Research
Complex	
	for Eastern Region, Patna
	AICRP Agrometeorology to P.D. Agrometeorology
	ICAR Research Complex Goa, and Regional Research Station
	Canning of CSSRI to Network on Coastal Production System.
Agril. Engineering	Merged
	AICRP Power Tiller integrated with AICRP Farm Implements
&Machinery	

Sector	Plan Schemes	EAP Plan Schemes
Upgraded	Phased out	
	The All India Coordinated	ILTP Production of Sub Unit
	Research Project on Pig to	Syntheticpeptide Vaccine
	Project Directorate on Pig	
	against	
	AICRP on Animal Disease	FMD and Seedpox
	Monitoring & Surveilance to	
	Project Directorate	ILTP development of Immuno
	on Animal Disease Monitoring	diagnostic against
		important diseases of animals
		(FMD, MD, Sheep pox) using
		hybridroma tecnique
	Merged	
	Network Programme on	ILTP development of drug from
	Farm Production	indigenous medicine plants
against		
		ectoprasite and bio-availability
of		
		synthetic drugs Factors
affecting		
		in-vitro biosynthetic of
immunocolchicines		
	System to Network Crop Based	
	Animal Production System	
New Schemes in IX Plan		

**Sector** 

**Plan Schemes** 

Crop Science National Facility for Plant Virus Research

National Centre for Agriculturally important Micro Organism

NRC on Millets

Network on Transgenics

Horticulture NRC for Litchi, Bihar ( to be integrated with Research

Complex for Eastern Region)

NRC for Seed Spices, Rajasthan

AICRP on Vegetable I Solanaceous & Cole Crops, leafy

vegetables

AICRP on Vegetable II- Allium, Legume Vegetable,

Cucurbit, Okra

Soil, Agronomy & Agroforestry ICAR Research Complex for Eastern Region

Regional Station of CSSRI, Karnal in Lucknow

Network on the Watershed Management

Network on Hill Agriculture Production System

Agricultural AICRP on Engineering Measures for Efficient Land & Water

Management Engineering

Animal Science AICRP on Gastro-intestinal parasitism

AICRP on rumen microbial dynamisms and bio-availability of

micronutrients

Network programme on haemorrhagic septicaemia

Fisheries AICRP freshwater prawn culture at CIFA

AICRP shellfish mariculture at CMFRI

Agril. Education Rural awareness work experience programme

National talent scholarship

Pre-doctoral fellowship for overseas students from SAARC

and other developing

countries for Ph.D courses in India
Catch up grant for SAUs and DUs

Sabbatical leave

Agril. Extension Establishment of 100 new KVKs

Trainers Training Centre on Vegetable Production & Rural

System Analysis

Expansion of Institute Village Linkage Programme (IVLP)

Frontline Demonstration on various aspects of Crop

Production

#### Plan Schemes in operation during the Third year of the IX Plan (1999-2000)

1.16 The Sector cum- Programme-wise detailsof Plan Schemes, viz; Institutes, Bureaux,

National

Research Centres (NRCs), AICRPs etc. which remained in operation during1999-2000 are as under:

Sectors	Programmes	Plan Schemes
I. Crop Science	A. Plant Genetic Resources	1. National Bureau of Plant
		Genetic Resources
		2. NRC-DNA Fingerprinting
December Institute	B. Food Crops	1. Indian Agricultural
Research Institute		2. Central Rice Research
Institute		2. Gentral Nice Nessalon
		3. Vivekanand Parvataiya
Krishi Anusandhan Shala		·
		4. Indian Institute of Pulses
Research		
		5. AICRP-Chick Pea
		6. AICRP-Pigeon Pea
(MILILIADO)		7. AICRP-Pulses
(MULLARP)		8. AICRP-Arid Legumes
		Project Directorate of
Wheat Research		3. 1 Tojest Birestorate of
		10. N.R.C. Sorghum
		11. AICRP-Sorghum
		12. Project Directorate of
Rice Research		
		13. P.D. Maize
		14. AICRP- Pearl Millets
		15. AICRP-Small Millets
	C. Faraga Crana	16. AICRP-Barley 1. Indian Grassland &
Fodder Research Institute	C. Forage Crops	1. IIIulali Glassialiu &
r odder researon monate		2. AICRP- Forage Crops
	D. Commercial Crops	1. Central Tobacco
Research Institute	·	
		2. Indian Institute of
Sugarcane Research		
		3. Central Institute of
Cotton Research		
for Jute & Allied Fibre		4. Central Research Institute
IUI JULE & AIIIEU FIDFE		5. Sugarcane Breeding
Institute		J. Ougardane Dieculing
		6. AICRP-Cotton
		7. AICRP-Jute

Sugarboot		<ul><li>8. AICRP-Tobacco</li><li>9. AICRP-Sugar Crops</li><li>10. Network Scheme</li></ul>
Sugarbeet		11. AICRP-Under-utilised & Under-exploited Plant
	E. Oilseeds	1. N.R.C. Groundnut
		2. N.R.C. Soyabean
		3. N.R.C. Rapeseed &
Mustard		4. Project Directorate of
Oilseed Research		
		5. AICRP-Groundnut
Mustard		6. AICRP Rapeseed &
Mustard		7. AICRP Soyabean
	F. Plant Protection	1. N.R.C. Integrated Pest
Management		•
		2. P.D. Biological Control
		3. AICRP-Honey Bees
		4. Network- Soil Arthropods
		<ol><li>Network-Rodent Control</li></ol>
		<ol><li>6. AICRP- Rodent Control</li></ol>
		7. AICRP-Pesticide
Residue		8. AICRP-Nematode
		Network-Economic
Ornithology		9. Network-Leonomic
Research &	G. Hybrid Seed	1. Project on Promotion of
Research &		Development on Hybrid
Seed in Selected		Development on Hybrid
		Crops (Terminated during
1999-2000 now		Funded under NATP)
	H. Biotechnology for Crop	1. N.R.C. Biotechnology
Centre for Crop	Distosimistogy for etop	Transic Dioteonine logy
•	Improvement	Science
	I. Seed Technology Research	1. National Seed
Project	& Breeder Seed Production	

	J. Externally Aided Projects	1. Establishment of
Phytotorn Facility at		IADI (INDD)
		IARI (UNDP)
project on Plant		2. Indo-UK collaborative
project on Plant		
One and the O. Hillianting		Germplasm
Conservation & Utilisation		(NDDCD)
		(NBPGR)
Demonstration Project (IADI)		3. Indo Israel
Demonstration Project (IARI)	A . F	4 Indian Indiana af
II. Horticulture	A. Fruits	1. Indian Institute of
Horticultural Research		(500()
		(50%)
Outstand in all Hanting literat		2. Central Institute for
Subtropical Horticulture		2 N.D.C. Citaria (000/)
		3. N.R.C. Citrus (90%)
		4. N.R.C. Grapes
		5. AICRP-Tropical Fruits
E. 3.		6. AICRP-Sub-tropical
Fruits		7 AIODD Arid Errite
		7. AICRP-Arid Fruits
Taman anata Hantia di una		8. Central Institute of
Temperate Horticulture		O NID O Arial Hamilandana
		9. N.R.C. Arid Horticulture
	D. Variatables	10. N.R.C. Banana
	B. Vegetables	1. N.R.C. Mushroom
Variable Decemb		2.a. Indian Institute of
Vegetable Research		2 h AICDD Variable
Dagagrah		2.b. AICRP-Vegetable
Research		2 Vagatable Cood
Project (National Social		Vegetable Seed
Project (National Seed		Drainet)
		Project) 4. AICRP-Mushroom
	C. Datata 9 Tubar Crans	5. N.R.C. Onion and Garlic
Inctituto	C. Potato & Tuber Crops	Central Potato Research
Institute		2 Control Tubor Crops
Research Institute		2. Central Tuber Crops
ועסטפוטון וווסנונענט		3. AICRP-Potato
		4. AICRP-Tuber Crops
		4. AIGINE TUDEI GIOPS

Pagagrah Instituto	D. Plantation Crops	1. Central Plantation Crops
Research Institute		2. Central Agricultural
Research Institute		2. Contrai / tgrioditarai
		3. N.R.C. Cashew
		4. N.R.C. Palm
		5. AICRP-Palm
		6. AICRP-Cashew
	E. Spices	1. Indian Instt. of Spices
Research		
		2. N.R.C Seed Spices
		3. AICRP Spices
	F. Floriculture, Medicinal	1. N.R.C. G.and Floriculture
	& Aromatic Plants	2. N.R.C. Medicinal &
Aromatic Plants		0 AIODD 51 1 1
		3. AICRP-Floriculture
Aromatic Plants		4. AICRP-Medicinal and
		5. AICRP-Betelvine
	G. Post Harvest Technology	1. AICRP-Post Harvest
Techn. of Hort.		
	Of Horticultural Crops	Crops
III. Natural Resources	A. Resources Inventory	National Bureau of Soil
Survey and Land		Llee Diensing
Management	D. Cail Management	Use Planning
	B. Soil Management	Central Soil & Water  Page 27th & Training
Institute		Research & Training
montate		2. AICRP-Tillage
Management of Indian Soils		Z. Alerti illage
Managoment of malari cone	C.Nutrient Management	1. Indian Institute of Soil
Science	S. tatristi Management	Ti malan melilate er een
		2. AICRP-Micro Secondary
Nutrients		,
		3. AICRP-Biological
Nitrogen Fixation		Č
· ·		4. AICRP-Micro Biological
Decomposition		
		5. AICRP-Soil Test Crop
Response		
		6. AICRP-Long-term
Fertilizer Experiments		

Research Institute	D. Water Management	1. Ce	entral Soil Salinity
		2. W	ater Technology
Centre for Eastern Region		3a.	P.D. Water
Management		3b.	AICRP- Water
Management		4 Al	CRP-Management of
Salt Affected		S	oils & Use of Saline
Water		5 AIC	CRP-Optimisation of
Ground Water			ilisation through Wells
and Pumps			ū
of Diaraland			CRP on Management
	E. Cropping System Research		orovement Sentral Research
Institute for Dryland		Αg	griculture
Research Institute		2. Ce	entral Arid Zone
System Research		3.a.	P.D. Cropping
System Research		3.b.	AICRP-Cropping
System Research			I.R.C. Weed Science
		6. Al	AICRP-Weed Control CRP-Agro-meteorolgy
Agriculture		7. Al	CRP-Dryland
			R.C. Agroforestry CRP- Agroforestry
Complex for Goa		10. 10	CAR Research
Complex for NEH Region		11.	ICAR Research
IV .Agricultural Agricultural Engineering	A. Farm Implements & Machinery	1. C	Central Institute of
Engineering		2. /	AICRP-Power Tiller

Implements Machinery		3. AICRP-Farm
Implements Machinery		4. AICRP-Human
Engineering and Safety  Post Harvest Engg. &	B. Post Harvest Technology	Studies  1. Central Institute for
Research on Cotton		Technology  2. Central Institute for
Institute		Technology  3. Indian Lac Research
		4. National Institute of Jute
& Allied Fibre		Technology 5. AICRP-Application of
Plastics in Agriculture		6. AICRP-Jaggery &
Khandasari		7. AICRP-Harvest & Post
Harvest Technology	C. Energy Management in	
Energy Sources	C. Energy Management in	1. AICRP-Renewable
Requirement in Agricultural	Agriculture	2. AICRP-Energy
Animal Energy		Sector  3. AICRP-Utilisation of
Drainage	D. Drainage Engineering	1. AICRP- Agricultural
V. Animal Science Animal Genetic Resources	E. Externally Aided Projects A. Animal Genetic Resources	.RNAM Phase VI     .National Bureau of
Animal Genetic		2. National Institute of
		(NBAGR) Network
Animal Genetic		Resources
Institute	B. Livestock Improvement	1. National Dairy Research
		(including NRC

Biotechnology in Animal		
		Production)
December leaditude		2. Central Sheep and Wool
Research Institute		3. Central Avian Research
Institute		3. Gentral Avian Nescarch
		4. Central Institute for
Research on Goats		
		5. Central Institute for
Research on Buffaloes		6. National Institute of
Animal Nutrition &		o. National institute of
		Physiololgy
		7. N.R.C. on Biotechnology (
Part of NDRI)		
		8. N.R.C. Camel
		9. N.R.C. Yak
		10. N.R.C. Mithun
		11. N.R.C. Equine
		12.a P.D. Poultry Research
		12.b AICRP- Poultry
Research		13. P.D. Cattle Research
		14. AICRP- Sheep
		15. AICRP-Goat
		16. AICRP-Buffalo
		17. AICRP-Pig
Product		18. AICRP-Agriculturral By-
Troduct		19. Network-Micronutrients
		20. Network-Embryo Transfer
		21. Network-Crop Based
Animal Production		·
		System
	C. Livestock Prodcut	1. N.R.C. Meat & Meat
Products Technology		
	Technology	2. R&D Support for Process
Upgrdation of		
		Indigenous Milk Products
for Industrial		
		application

Dagaarah Ingtituta	D. Animal Health	1. Indian Veterinary
Research Institute		2. AICRP-Disease Monitoring
& Surveillance		AICRP Blood Protesta     AICRP on Foot & Mount
Disease		5. N.R.C. Biotechnology ( Part
of IVRI)		5. N.N.O. Diotechnology (1 art
Dynamics	E. New Initiatives	1. Network on Rumen
Spticae		2. Network on Haemorrahagic
·		3. AICRP on Gastrointestinal
Parasite	F. Externally Aided Projects	Indo-UK transfer of
molecular biological		tachnologica ( to be
terminated w.e.f.		technologies ( to be
VI Fisheries	A. Capture Fisheries	31.3.1999) 1. Central Marine Fisheries
Research Institute		2. Central Inland Capture
Fisheries Research		·
Freshwater Aquaculture	B. Culture Fisheries	Institute 1. Central Institute for
Trestiwater Aquaculture		2. Central Institute of
Brackishwater		Aquaculture
		3. N.R.C. Cold Water
Fisheries		4. ORP on Processing and
Utilisation of Organic		_
Fish origo Tasky alony	C. Fish & Fish Processing	Waste Aquaculture  1. Central Institute of
Fisheries Technology	Technology	
Constin Description	D. Fish Genetic Resources	1. National Bureau of Fish
Genetic Resources	E. Fisheries Education	1. Central Institute of
Fisheries Education		

VII Agril. Statistics & Statistics Research Economics		Indian Agricultural     Institute
		2. N.R.C. Agril. Economics
& Policy Research VIII Agricultural Extension Kendras	A. Vocational Training with	1. Integrated Krishi Vigyan
	Integrated Function	2. NRC for Women in
Agriculture IX. Agricultural Education	A. Strengthening of	1. National Academy for
Agricultural Research	A aniaultunal Education	Managamant
	Agricultural Education	Management  2. Development &
Strengthening of State		2. Bovolopinioni a
		Agril. Universities 3. Development &
Strengthening of		
Central Universities		Agricultural Education of
Education in Deemed to		4. Strengthening PG
Education in Deemed to		be Universities
		5. Establishment of Centres
of Advance		
	P. Control Agricultural	Studies in SAUs & DUs
Agril. Universities for	B. Central Agricultural	Establishment of Central
Augrini Ornivoroniaco foi	University	NEH Regions
	C. Recognising Professional Excellence	Best Teacher Award
	D. Professional Resource	1. Preparation of University
Level Books		_
Cabarra	Utilization	2. Emeritus Scientist
Scheme	E. New Initiatives	1. J &K University
	L. New Illidaives	Accreditation
		3. National Talent
		4. Agricultural Education
Media Centre		_
Collogos		5. Support to Agricultural
Colleges		6. Rural Awareness Work

Experiences		
		Programme 7. One Time Catch up
Grant		8. Assam Agricultural
University X. World Bank/Foreign	A. World Bank Projects	1. Agril. Human Resource
Development Aided Projects		National Agricultural
Technology Project		3. Indo-Dutch ORP on
Drainage Water		Managament
XI Management And Programme with	A. Bilateral Cooperation	Management  1. Bilateral Coopration
Information Services Countries	Projects	Developing & Developed
		(DARE) and long-term
Project under		INDO-USSR, INDO-UK &
INDO-USA		Programme
	B. Publication & Information	Publication & Information
	C. Strengthening of The infrastructure	Civil Works     a. ICAR Bhawan Phase II     Count House for ICAR
Hqrs		b. Guest House for ICAR
·		c. National Agricultural
Science Centre & Museum		d. Residential
Accommodation for ICAR St	aff	
On and 9. Facilities		<ol> <li>ICAR Agricultural Library</li> <li>Strengthening of ASRB</li> <li>Modernisation of Office</li> </ol>
Space & Facilities		<ul><li>5. ICAR Headquarters</li><li>6. Publicity &amp; Public</li></ul>
Relations		•
+Support to Professional	D.	
Toupport to Troicessional	Societies/ Associations	

Support to National Academy

E. Pipeline (new schemes)

F. Celebration of Golden
Jubilee Intellectual
Property Rights Cell
Pipeline Projects

( New Schemes)

## **CHAPTER II**

## **DEMANDS FOR GRANTS 2000-2001(DARE)**

2.1 The Demands for Grants for Department of Agricultural Research & Education (DARE) of Ministry of Agriculture is incorporated as Demand No.2 in the Expenditure Budget. The Demandincludes besides Secretariat expenditure of the Department, contribution to international bodies, payments of grants-in-aid to the Indian Councilof Agricultural Research to enable it to meet the expenditure on the various research institutes controlled by it and for its several research projects, schemes and activities. Payment of net proceeds of cess under the Agricultural Produce Cess Act, 1940 is also provided for in the Demand.

2.2 The entire demand of DARE comes under RevenueSection amount to Rs.1404.55 crore for the year 2000-2001. This Demand is divided into three major heads as follows:

Major Head 3451 includes outlay of Plan & Non-Plan expenditure on Secretariat

of DAREunder

Sub-HeadSalaries, Overtime Allowance, Domestic Travel

Expenses, Foreign

Travel Expenses and Office Expenses.

Major Head 2415 includes outlay of Plan and Non-Plan payments to ICAR

towards Agricultural

Research and Education on Crop Husbandry, Soil and Water

Conservation, Animal

Husbandry, Dairy Development, Fisheries, Forestry and

contributions toCommon wealth

Agricultural Bureau (CAB), Consultative Group on

International Agricultural Research

(CGIAR), Asia- Pacific Association of Agricultural Research

Institution(APAARI)

and Network of Agricultural Centres for Asia and the Pacific

(NACA), Regional

Co-ordination Centre for Research & Development

ofCGPRT, International Seed

Testing Association etc.

Major Head 2552\*
provision for projects/schemes

includes outlay of plan expenditure towards lump sum

for the benefit of North-Eastern Region and Sikkim.

### **Growth of Financial Outlay of DARE/ICAR**

2.3 The Department of Agricultural Researchand Education (DARE) started from IV Five Year Plan. Budgetary allocations

(Plan Outlays) made in respect of the Department covering the periodfrom IV Plan to IX Five Year Plan are given against column(A) in the tablebelow.

The total Plan Outlay of the Central Government forall these plan periods are given against column(B).

The outlay of the DARE compared with the total CentralPlan Outlay of the Government and percentage of DARE/ICAR of total aregiven below against column (c)

## Growth of Financial Outlay of DARE from IV Plan to IX FiveYear Plan

	IV Plan	V Plan	VI Plan	VII Plan VI	II Plan IX Plan	
	(1969-74)	(1974-78)	(1980-85)	(1985-90)	(1992-97) (1997	-
2002)						
Plan Outlay for	85.00	153.56	340.00	425.00	1300.00	
2635.22						
DARE/ ICAR						
(Rs. in crore)						
Total Plan	15902.00	39322.00	97500.00	180000.00	434100.00	
492221.00						
Outlay of						
Govt.						
(Rs. in crore)						
Per Cent DARE/	0.535	0.391	0.349	0.236	0.2999 0.53	5
ICAR of Total						
Plan Outlay						

- 2.4. Rs.2635.22 crore include Rs.2100 croreas IX Plan Outlay + Rs.400 crore as one time catch up grant. Thepercentage of DARE/ICAR of Total Central Plan Outlayfor the IXth Plan will actually be Rs.2100 crore of Rs.492221.00 crore= 0.43% approx.
- 2.5 The growth of financial outlay of DARE/ICARduring the first four years of IX Five Year Plan is as under:

			(	Rs. in
crore)	1997-98	1998-99	1999-2000	2000-
2001				
a. Plan Outlay for				
DARE/ICAR	331.17	531.17	573.50	629.55

b. Total Plan Outlay of
Central Government
(Total Central Plan Outlay) 91838.71 105187.16 103520.93
117333.78
c. Percentage of Total Plan
Outlay of Central
Government to
DARE/ICAR 0.36 0.50 0.55 0.54

Source: Expenditure Budget Vol. I, Ministry of Finance

## Plan Outlay of DARE/ICAR as a Percentageof Agricultural GDP

2.6 The total allocation to the Department of Agricultural Research and Education for the year 2000-2001 is Rs.1404.55 crore. The Department was asked to furnish details oftotal allocations proposed and actually made/allocated this year and duringlast 6 years vis-à-vis the percentage these allocations are/wereof the Agricultural GDP.

2.7 The information furnished by the Departmentis as under:

(Rs.in crore)
Year Plan Non- Plan Total Allocaton Ag. As % age of
G.D.P. DARE allocation
w.r.t.
Ag. G.D.P.

at

### **Current Price**

	Amt	Amt.	Amt.	Amt.	Plan +		
Pro	oposed	allocated	Proposed	allocated	Non- F	Plan	
1994-95	336.97	275.00					
202.00	202.00	477.0	00	261239	0.18		
1995-96	383.50	310.00					
238.86	238.86	548.8	36	287697	0.19		
1996-97	440.34	289.30					
244.08	244.08	533.3	38	347501	0.15		
1997-98	1000.00	331.17					
268.10	268.10	599.2	27	359586	0.17		
1998-99	531.17	531.17*	475.02	475.02	1006	3.19	**
1999-2000	712.68	573.50	768.4	7 638.44	121	1.94	**
2000-2007	1 1082.59	629.55	864.3	6 775.00	140	4.55	**

(Source of Ag.G.D.P. : Economicand Statistics), the

Agricultural Statistics at a Glance, 1999; Directorate of

Ag. G.D.P. figures are at current prices and they have been

inserted inthe above table

as per revised figures available in the Ag. Statistics at a Glance

1999.

2.8 The Committee wanted to know from the Department the percentage of increase/ decrease of Plan and Non-Planallocation over the year 1999-2000 in real monetary terms. The Department in their written reply stated as under:

The percentage increase in Plan allocation during 2000-2001 over the year 1999-2000 is 9.77 per cent, while there is a decrease of 3.12 per cent under Non-Plan for the same period (based on Non-PlanRE 1999-2000).2.9 The Committee while examining the Demands for Grants in respect of DARE for the year 1996-97, 1997-98 and 1998-99 hadin their 2nd, 10th and 8th Reports respectively strongly recommended for enhanced allocations to DARE/ICAR for the IXth Plan to a level of 1% of Agricultural Gross Domestic Product (AGDP) with a tendency to to a level of 1% of Agricultural GDP. Likewise, in their 19th Report on Demands for Grants 1999-2000, the Committee stated:

The Committee, therefore, reiterate their earlier recommendation of enhancement of the Plan outlay for DARE/ICAR to the level of at least 1% of agricultural GDP for the IXth Plan. The Committee desire that the Department should keep approaching the Planning Commission and the Finance Ministry always apprising them of the level of the utilisation and impressing upon them the need for enhanced outlays so that necessary funds are released to meet the goals of the Department. Overall Review of Plan Outlays to Agricultural Research during VIII and IX Plan (1997-98, 1998-99, 1999-2000 and 2000-2001)

2.10 The Summarised statement of Plan Outlays/Expenditure duringVIII Plan (1992-97) and Ist four years of the IX Plan viz (1997-98),1998-99, 1999-2000 and 2000-2001) are as under :

(Rs. In crore)

Particulars	Amount	
VIII Plan Approved Outlay ( 1992-97)	1300.00	
VIII Plan Outlay provided on yearlybasis (1992-97)	1324.30	
VII Plan Expenditure (1992-97)	1270.86	
. IX Plan Outlay Proposed (1997-2002)	7800.01	
IX Plan Outlay (1997-2002)	*2635.22	
1997-98 Proposed Outlay	1000.00	
1997-98 BE	331.17	
1997-98 RE	329.56	
1997-98 Final Allocations	329.38	
1997-98 Actuals	323.30	
	VIII Plan Approved Outlay (1992-97) VIII Plan Outlay provided on yearlybasis (1992-97) VII Plan Expenditure (1992-97) IX Plan Outlay Proposed (1997-2002) IX Plan Outlay (1997-2002) 1997-98 Proposed Outlay 1997-98 BE 1997-98 RE 1997-98 Final Allocations	VIII Plan Approved Outlay ( 1992-97)       1300.00         VIII Plan Outlay provided on yearlybasis ( 1992-97)       1324.30         VII Plan Expenditure (1992-97)       1270.86         IX Plan Outlay Proposed (1997-2002)       7800.01         IX Plan Outlay (1997-2002)       *2635.22         1997-98 Proposed Outlay       1000.00         1997-98 BE       331.17         1997-98 Final Allocations       329.56         1997-98 Final Allocations       329.38

<sup>\*</sup> During 1998-99 the Planning Commission originally allocatedRs.331.17 crore but due to continuing efforts of DARE, it was enhanced to Rs.531.17 crore.

<sup>\*\*</sup> Aq.G.D.P. figures for these years are not available in documentedform.

11.	1998-99 Proposed Outlay	700.00
12.	1998-99 Approved Outlay (BE)	531.17
13.	1998-99 RE	400.00
14.	1998-99 RE (final)	445.00
15.	1998-99 Anticipated Expenditure	477.00
16.	1998-99 Actuals	427.73
17.	1999-2000 Proposed Outlay	712.68
18.	1999-2000 Approved Outlay	573.50
19.	1999-2000 Anticipated Expenditure	573.50
20.	2000-2001 Proposed Outlay	1082.59
21.	2000-2001 BE	629.55

<sup>\*</sup> Rs. 2632.22 crore include IX Plan outlay ( as finalised) ofRs.2100.00 crore plus one time catch up grant of Rs.400.00 crore.

## **Demand Proposed Versus Demand Accepted**

including new Initiatives & Pipeline Projects

2.11 The Comparative details of demand proposed( Plan & Non-Plan) by the Department to the Planning Commission and demand accepted by the Planning Commission and demand acceptedby the Planning Commission for various sectors of the DARE/ICAR for theyear 2000-2001 are as under:

Name of the Sector			(Rs. in crore) Plan Non- Plan			,	
Name of the Sector		Р	ian		Non- P	ian	
			Proposed		Allocated		
Porposed	Allocated						
1. Crop Science	ce		165.81		104.00		
176.24	157.06						
2. Horticulture			67.36		49.00		
104.58	93.20						
3. Natural Reso	ource						
Management	47.	14	52.00	67.	46	60.12	
4. Agricultural							
Engineering		25.65	24.0	00	62.57	55.76	
5. Animal							
Science		77.70		59.00	52.30	46	.61
6.							
Fisheries			40.56		29.00	23.91	21.31
7. Agricultural E	co. & Statistic	S	3.56		4.00		
11.67	10.40						
8. Agricultural E	xtension		65.00		60.00		
9.Agricultural							
Education		72.85	70	.00	3.50	3.00	
10. Managemer	nt and Informa	tion Services	S				

and						
DARE	40.00	25.55	337.13*	*	322.54**	
11. One Time Catch UP Grant		250.00	*			
12. Mini Mission on Cotton Project		30.00	5.00			
-						
13.World Bank/ Externally Aided Pr	ojects	196.94	148.00			-
14. A.P. Cess Fund Act, 1940						
25.00 5.00						
GRAND						
TOTAL 108	32.59	629.55	864.36	7	75.00	

<sup>\*</sup> The Planning Commission has not provided separate amount forone time catch up grant during 2000-2001

against the proposal of Rs.250.00 crore.

# Objective Classification Total Allocations for DARE/ICAR during 1999-2000and 2000-2001. Plan

The Sectoral details of ICAR and DARE, plan programme for BE and REfor 1999-2000 and BE for 2000-2001 are given below:

(Rs. in

Crore)

Name of Division Estimate	Budget Estimate	Revised Estimate	Budget
	1999-2000	1999-2000	2000-
2001			
Research			
Crop Science	97.00	94.00	104.00
Horticulture	47.00	41.00	49.00
Natural Resource Managem	ent		
50.00	45.00	52.00	
Agricultural Engineering	25.00	20.00	24.00
Animal Science	54.00	48.00	59.00
Fisheries	28.00	24.00	29.00
Agricultural Economics			
& Statistics	4.00	3.10	4.00
Agricultural Education	55.00	64.00	70.00
Agricultural Extension	50.00	50.00	60.00
Management and Information	n		
Services (including ICAR Ho	ırs.,		
ASRB and DIPA)	38.00	14.40	24.95

<sup>\*\*</sup> This includes pension of ICAR Hqrs. And arrears of SAUs Staffetc.

World Bank Aided Projects/

Externally Aided

Projects 12	5.00**	100.00**	153.00**
DARE	0.50	0.50	0.60
New Schemes (Pipe	eline) 0.00	0.00	0.00
Grand			
Total	573.50	504.00	629.55**

<sup>\*</sup> This includes Rs. 63 crore for North-East Region.

## Non plan

2.13 The objective-wise break-up in respectof ICAR Non-Plan budget are indicated below:

(Rs. in

Crore)			
Sub-Heads	<b>Budget Estimates</b>	Revised Estimates	Buget
Estimates			
	1999-2000	1999-2000	2000-2001
Estt. Charges (including OTA)			
and Wages*)	554.53*	702.96*	701.76*
Travelling Allowances	3.99	3.94	3.99
Other Charges	32.84	58.41	38.39
Works	4.80	13.58	5.28
Other Items	12.63	15.49	15.87
Total	608.79	794.38	765.29
A.P. Cess Fund	25.00	1.00	5.00
Grand Total	633.79	795.38	770.29

# Overall Review of Plan Allocation vis-à-vis Non-PlanAllocation during VIIIth Plan and in 1st Four years of 9th Plan

2.14 Details of total budgetary allocations, Plan Allocations, Non-Plan Allocations and their percentage out of thetotal budget from 1992-2001:

SI. No	. Year	Total	Plan Allocation Non-plan Allocation			
		Budgetary	Amount	%age	Amount	%age out of total
		Allocation		out of		
				total		
1.	1992-93 (BE)	375.65	200.00	53.24	175.65	46.76
2.	1993-94 (BE)	430.00	250.00	58.14	180.00	41.86
3.	1994-95 (BE)	477.00	275.00	57.65	202.00	42.35
4.	1995-96 (BE)	548.86	310.00	56.48	238.86	43.52
5.	1996-97 (BE)	533.38	289.30	54.24	244.08	45.76
6.	1997-98 (BE)	599.27	331.17	55.26	268.10	44.74
7.	1997-98 (RE)	683.70	329.38	48.18	354.32	51.82
8.	1998-99 (BE)	1006.19	531.17	52.79	475.02	47.21

<sup>\*\*</sup> This is pure external aid (reimbursable)

9.	1998-99	1095.95	445.00	44.24	560.94	55.76
10.	1999-2000 (BE)	1211.94	573.50	47.32	638.44	52.66
11.	1999-2000 (RE)	1304.00	504.00	38.66	800.00	61.34
12.	2000-2001 (BE)	1404.55	629.55	44.82	775.00	55.18

## Overall Review of Plan and in 1st four years of IX plan.

2.15 Details of Budget Estimates (BE)-Plan and Actual Expenditure (Plan) from 1992-93 onwards are as under:

			(Rs. in Crores)
SI. No.	Year	BE	Actual Expenditure
1.	1992-93	200.00	176.04
2.	1993-94	250.00	233.06
3.	1994-95	275.00	276.24
4.	1995-96	310.00	274.89
5.	1996-97	289.30	312.13
6.	1997-98	329.38	331.14
7.	1998-99	531.17	427.73
8.	1999-2000	573.50	**
9.	2000-2001	629.55	

- \*\* Figure of Actual Expenditure (1999-2000) are not yet available.
- 2.16 The Budget Estimates (Plan) 1999-2000were Rs.573.50 crore while the Revised Estimates (Plan) were brought downto Rs.504.00 crore. Budget Estimates (Plan) are 2000-2001 is Rs.629.55crore.
- 2.17 The Committee asked the Department thereasons for reducing the Plan allocations by Rs.69.50 crore at RE stagewith details of schemes which were affected owing to these cuts. The Department in their written reply stated as under:-

The reduction of Annual Plan (1999-2000) by Rs.69.50crore at RE stage was due to imposition of cut by Ministry of Finance. Although, the Department has the capacity to utilise all the funds allocated.., the Department had to reprioritize the investment in schemes due to thecut imposed.2.18 The Committee were also keen to know as tohow the Department propose to utilise an additional amount of Rs.125.55crore (Plan) in 2000-2001 over Revised Estimates (RE) 1999-2000 (Plan) and whether any new schemes were to be launched in the year 2000-2001. To these points the Department in their reply stated as under:

The fact is that there has been low funding for the Department fromPlanningCommission for all the first four years of IX Five Year Plan. Against the projected demand of Rs.1000.00 crore, Rs.531.17 crore,Rs.712.68 crore, and Rs.1082.69 crore for the Annual Plans 1997-98, 1998-99;1999-2000 and 2000-2001, the allocations were only Rs.331.17 crore,Rs.531.17 crore (which was subsequently reduced to Rs.445.00 croreat RE Stage), and Rs.629.55 crore respectively. The World Bank aidedNational Agricultural Technology Project and other Externally AidedProjects would also need substantial financial allocation for their meaningfuland effective implementation, along with other schemes needing infrastructuredevelopment which is very critical for carrying out research work to competeeffectively is considered vital. The new schemes contemplated tobe

launched with full vigour during 2000-2001 are as follows:

- (i) ICAR Research Complex for Eastern Region.
- (ii) AICRP-Engineering Measures for Efficient on-Farm Water Management.
- (iii) Network-Gestrointestinal Parasitism
- (iv) National Bureau of Agriculturally Important Micro-organism
- (v) Directorate of Millets Research.2.19 Budget Estimate (Non-Plan) 1999-2000 was Rs.633.79crore while the Revised Estimate (Non-Plan) was increased to Rs.795.38crore. Budget Estimate (Non-Plan) 2000-2001 is Rs.770.29 crore.
- 2.20 Thus, the increase in Non-Plan 1999-2000at RE stage comes to Rs.161.59 crore whereas the BE 2000-2001 (Non-Plan)has decreased over RE 1999-2000 (Non-Plan) by Rs.25.09 crore.
- 2.21 The Department was asked to explainthe reasons for increasing Non-Plan allocations (1999-2000) at RE stage and decreasing BE 2000-2001 (Non-Plan) overRE 1999-2000 along with details of heads which received the enhanced allocations and sources from which Rs.161.59 crore would be arranged. To these points, the Department stated as under:

The enhancement (Rs.185.59 crore) under Non-Plan in the RE1999-2000 is mainly due to payment of arrears to the SAUs teaching staffdue to implementation of 5th Pay Commission recommendations as ICAR functions UGCs in case of SAUs for the purpose.

The enhancement has been received under the sub-major head Crop Husbandrybelow major head 2415 Grant-in-Aid administration (Rs.189.59 crore).

The enhancement would be arranged by re-appropriation from savings in Plan and in A.P. Cess mainly to the tune of Rs.93.53 crore and the remainingamount to the tune of Rs.92.06 crore through supplementary grants 1999-2000.

The decrease in BE 2000-2001 in comparison to RE 1999-2000 is due toless requirement of funds for payment of arrears to the teaching staffof SAUs. **Domestic Budgetary Support** 

- 2.22 The Domestic Budgetary Support (DBS) forthe year 1999-2000 was Rs.448.50 crore and DBS for 2000-2001 is Rs.476.55crore, i.e. only Rs.28.55 crore more than 1999-2000. If we take intoaccount the minimum inflationary trend of 10 per cent to 12 per centper annum then at least Rs.45.00 crore to Rs.50.00 crore should have been added to Rs.448.50 crore to give more realistic DBS for 2000-2001.
- 2.23 The Department was asked to state as towhy even minimum 10 per cent enhancement of budget allocation wasnot made keeping in view the inflationary trends prevailing in the presentcircumstances, while making budgetary allocations for the next financialyear. To this point, the Department replied as under:

The Department had proposed Rs.605.65 crore as DBS during2000-2001 against which the allocated amount is Rs.476.55 crore (afteradjusting the Externally Aided Projects and Mini Mission on Cotton Projectout of the total allocated amount of Rs.629.55 crore during 2000-2001). Though the Department had which the allocated amount is Rs.476.55 crore (after adjusting the Externally proposed higher amount for DBS butdue to financial constraints, the Planning Commission allocated only Rs.629.55 crore, out of which DBS could be made at Rs.476.55 crore only. The Department can only allocate the amount for DBS from the total allocation received from the Planning Commission. The matter of taking into account minimum inflationary trend of 10 to 12 percent while allocating funds to the Department has been regularly pleading with the

# PlanningCommission for adequate funding. **Need for separate indication of Capital** requirements under the Head Capital

- 2.24 While scrutinizing the Demands for Grants (1999-2000) in respect of DARE, the Committee found that the outlay proposed for the Plan activities of 1999-2000 was Rs.712.68 crore which included capital component of Rs.167.23 crore as the same was separately shown inone of the columns of the financial statement in the Annual Plan 1999-2000 document. But in the Annual Plan 2000-2001 document containing financial statement, there has been no mention of capital component requirement for the year 2000-2001.
- 2.25 When asked as to why the capitalcomponent requirement has not been separately shown in the financial statement the Annual Plan 2000-2001 this time, the Department clarified as under: The Department could not provide capital component for each scheme in the Annual Plan 2000-2001 document as the exact requirement of various infrastructure development for various schemes was in the processof finalisation seeking information from various institutions/projects/schemesspread all over the country. Now the scheme-wise Annual Plan 2000-2001 allocation has been finalised and the concerned quarters have been asked to submit the full details of their heads of expenditures including capital component. This process may take some more time for finalisation of the information.2.26 The detailed Demand No.2 pertains to DARE and the entire Demands are divided under two major sections namely Revenue and Capital. It has been observed that other Ministries/Departments indicate their Capital requirements separately in their respective Demands in the Government of India Expenditure Budget Document under the Section Capital. But DARE never does so.
- 2.27 When asked about the components of Revenueand Capital sections separately, the Department categorically and ironicallyreplied :The DARE do not have their specific requirement under Capital.**One Time Catch up Grant to DARE/ICAR**
- 2.28 Against the recommendation of the 9th PlanWorking Group as well as Recommendation No.5 in 19th Report on Demandsfor Grants 1999-2000 of the Parliamentary Standing Committee on Agriculturetowards a one time catch up grant of Rs.500 crore to modernise thedecades old National Agricultural Research System, the Planning Commissionhas already approved Rs.400 crore for the 9th Plan.
- 2.29 The Department was asked to state the amount grant that has been utilised so far, with names of the Institutes/Programmesthat have been benefited from the grant. The Department ina written reply stated as under :The Planning Commission had initially allocated Rs.400 croreas IX Plan outlay towards one time catch up grant but despite the Department requests, it has not provided any amount towards one time catch up grantthrough Annual Plan budgets. During the 2000-2001, the Departmenthad proposed an amount of Rs.250 crore but no separate allocation has been provided by the Planning Commission. However, the Department felt that the old institutions badly needed some funding for renovation of oldinfrastructure and replacement of obsolete equipments as well as othervital general utilities. To meet with this burning requirement, the Department had taken an administrative decision and asked the concernedold institutions to utilise 20% of the current years plan budget and 30% for the 2000-2001 towards approved items of one time catch up grant. In case the Department receives separate funds for one time catchup grant from the Planning Commission, the budgetary amount would be provided on priority.

Since the provision of One Time Catch Up Grant from the Annual Plan budget has been made from the current financial year, the fund utilisation figures will be known at the end of year. Forty nine ICAR institutions and 30 State Agricultural Universities and old Krishi Vigyan Kendras have been identified for One Time Catch UpGrant during the IX Five Year Plan on the funding outlay stated above. 10% Allocation in Favour of Exclusive Schemes for the North-

#### **EasternStates**

- 2.30 As per the Government Policy 10% of CentralBudget will be provided to implement specific schemes/objectives in theNorth-Eastern States and all the Ministries/Departments are to ensure strictimplementation of these programmes/schemes. The BE 2000-2001 forthe schemes for the benefit of North-Eastern Region & Sikkimhas been kept at Rs.63.00 crore (Plan).
- 2.31 The Committee wanted to know the percentageof Plan allocation made and actually spent for schemes meant exclusivelyfor the North-East during the 1st three years of the IX th Plan. The Department in their reply has stated as under :The percentage allocation made and actually spent forschemes meant exclusively for the North-East during the first three years of IX Plan and BE 2000-2001 is given as under : (Rs. in crore)

Year	Allocation	10% of Allocation	on Amount Allocated	% ageof Plan	Actual
amount spe	nt				
		as per directive	to NE States &	allocation made	to
			Sikkim	NE State and Sik	kim
				w.r.t. Outlay	
1997-					
98	331.17	33.11	23.80	7.19	23.80
1998-99	445.00 (I	RE)			
44.50	36.68	8.24	36.95		
1999-					
2000	504.00(RE)	50.40	44.73	8.88	44.73(An
ticipated)					
2000-					
2001	629.55	62.96	63.00	10.01	-

From the above facts and figures it is indicative that the Departments annual plan allocation towards the activities of NE Statesand Sikkim is consistently tending to 10 per cent funding criterion and during the year 2000-2001 this amount has been pegged at 10 percent and is expected to be totally utilised. **Sectoral Allocations According to IX Plan Working Group** 

## Recommendations

2.32 The percentage resource allocation recommended for different sectors by the WorkingGroup on Agricultural Research and Education for the IX Five Year Plan is as under:

S.No.	Sector I	Percent resource allocation
1.	CropScience	25
2.	Horticulture	10
3.	AnimalScience	14
4.	Fisheries	06
5.	AgriculturalEduca	ation 15

- 6. AgriculturalExtension 10
- 7. Soils

Agronomy

Agril. Engineering

Publication & Information

Headquarter (ICAR) 20

2.33 The Department was asked to indicate whetherthe budgetary allocations in favour of various sectoral activities arein conformity with the proportion of allocation recommended by the WorkingGroup during the 1st four years of the 1xth Plan along with reasons, ifany, for inadequate allocations for any of the sectors. The Departmentin their reply has stated as under: Because of the pressing needs of Agricultural Extension and non-availability of funds from the Ministry of Finance/Planning Commission therewas increase in the percentage allocation to Agricultural Extension. Similar was the situation with regard to Natural Resource Management, AgriculturalEngineering etc. Once, adequate funds are made available every efforts will be made to compensate for the shortfalls for priority programmes in other areas in the coming years. The sector-wise details of allocationsalongwith percentages for all the four years of IX Plan are as per followingtable. (Rs. in crore)

1997-98 Sector Proportion 1998-99 1999-2000-2001 2000

of Allocation

as Recommended

by Marking Croup IV Dlan

by W	orking Group IX Plan			
		Alloca- % age	Alloca- %age Alloca-	
%age Alloca-	%age			
		tion	tion tion	tio
n				
1.Agril Education	15.00	30.30 10.27	55.00 12.24 55.00	
12.26 70	14.69			
2.Agril Extension	10.00	40.00 13.56	50.00 11.13 50.00	
11.15 60	12.59			
3. Fisheries	6.00	19.00 6.44	28.00 6.23	
28.00 6.24	29 6.09			
4.Animal Science	e 14.00	33.32 11.29	55.00 12.24	
54.00 12.04	59 12.38			
5. Horticulture	10.00	29.85 10.72	47.30 10.53	
47.00 10.48	49 10.28			
6.Crop Science	25.00	67.05 22.73	97.00 21.59	
97.00 21.63	104 21.82			
7. NRM		35.09 11.89	49.70 11.06	
50.00 11.15	52 10.91			
Agri. Engg	20.00	13.94 4.73	25.00 5.57	
25.00 5.57	24 5.04			

Agri. Eco. & Stat		. 1.50	0.51 4.0	0.89	4.00	
0.89 4	0.84					
ICAR Hqrs Stat.		24.95	8.46 38.1	8 8.50	38.50	8.58
25.55 5.36						
Total (DBS)	100.00	295.00 10	0.00 449.18	100.00	448.50	100.00
476.55 100.00						
World Bank						
and						
EAPs		36.17	81.99		125.00	148.
00						
Mini-Mission on						
Cotton						
Project						5.00
Grand Total						
331.17	531.17	573.50	629.55			

Note(i) The Ix Plan Working Group recommended theseparate proportion of allocation of IX Plan for DBS only; hence WorldBank/Externally Aided Projects allocation has been shown separately.

(ii) For Sl.No.7 (NRM + Agril. Engg. + Agri.Eco &Stat. + ICAR Hqrs. & P&I) the total percentage allocation for 4years i.e. 1997-98, 1998-99 1999-2000, 2000-2001 is 25.59% 36.02% 26.19% and 22.15% respectively. **Administrative**-

# **Pending Vigilance/Disciplinary Cases**

- 2.34 The Committee enquired about the Vigilance/Disciplinarycases pending in the DARE/ICAR for the last ten years with details of presentstatus of each such case. The Department in their reply has informedabout 25 pending vigilance cases against 37 scientists/ personnels and 37 pending disciplinary cases coming to the notice of the Departmentsduring the last 10 years.

  2.35 The Committee also enquired about the present status in getting the post of Director
- 2.35 The Committee also enquired about the present status in getting the post of Director (Vigilance) sanctioned as per therecommendations of the Committee in their Eighth and Nineteenth Reports (1998-99) in this regard. The Department replied: In pursuance of the recommendation of the Parliamentary StandingCommittee on agriculture the issue was taken up by the cadre Review Committee. The Committee had recommended the creation of post of Director (Vig.). On the basis of the Report of the Committee, a proposal has been sent to the Ministry of Finance for their clearance. **Agricultural Produce Cess**
- 2.36 Under Major Head 2415, Minor Head 150-05of Demands for Grants Payments of net proceeds of Cess under AgriculturalProduce Cess Act, 1940, BE 1999-2000 is Rs.25.00 crore under Non-Plancolumn; RE 1999-2000 is Rs.1.00 crore and BE 2000-2001 is Rs.5.00 crore.
- 2.37 The Committee was surprised to see such ahuge variation between BE/RE 1999-2000 and in BE 2000-2001 with regardto Agricultural Produce Cess and asked the Department to state the reasonsfor the same. The Department in their reply stated that:

The variation between BE and RE 1999-2000 is due to reductionin allocation of funds by the Ministry of Finance. We had proposedRs.25.00 crore under RE 1999-2000 and Rs.25.00 crore in BE 2000-2001. The amount was reduced to Rs.1.00 crore in RE 1999-2000 and Rs.5.00 crorein BE 2000-2001 by the Ministry of Finance.

#### **Revenue Generation**

- 2.38 The Department apart from the Governmentgrant, has been generating funds from various internal sources suchas (1) Revenue Receipts (2) Interest earned on Short-term deposits of theidle funds; and (3) recovery of loans and advances.
- 2.39 The Committee were keen to know whetherany target for generation of income has been fixed by the Department everyyear in advance and if so the details of targets fixed and achievedalongwith reasons for shortfall, if any. To these points, the Department replied as under :Yes from the years 1996-97 the target of Revenue Generation is fixed. The target fixed and achievement are given as under :

(Rs. in crore)

Year	Target Fixed	Target Achieved
1996-97	22.50	16.76
1997-98	29.00	18.59
1998-99	17.00	20.11
1999-2000	21.21	Yet to be knownYes, there was shortfall in the years

1996-97 and 1997-98due to fixation of higher target. During 1998-99 the targets were exceeded to on the issue of resource generation, it is worth pointing outthat the ICAR works primarily for farmers where techniques, technologiesetc. are supplied to enhance productivity and production and income forrural masses. 2.40 When asked about the utilisation of the income generated so far, year-wise during the last fiveyears, the Department replied:-The Revenue Generation during these years have been allowed to be utilised under Non- Plan by all the constituent units as per their requirements. Agricultural Scientists Recruitment Board (ASRB)

- 2.41 The Agricultural Scientists are the life-lineof agricultural research and development activities. And the Boardresponsible for their recruitment acquires greater significance forits activities have direct impact on the quality of agricultural research and development in the country.
- 2.42 The Committee asked the Department to givedetails of ASRBs historical background, organisational set up, mandate/functions, achievements made and problems/ constraints encountered by it.The Department in their written reply stated:

Historical Background and organisational set-up of ASRB

Since selection of the scientists in the ICAR, whichis a Council outside the Government, could not be entrusted to the UPSC, an independent recruitment agency named Agricultural ScientistsRecruitment Board was created with the approval of the Cabinet on 1.11.73. The Agricultural Scientists Recruitment Board (ASRB) is headed by an eminentAgricultural Scientist. Apart from the Chairman, there are two Members. For rendering support to the Chairman and Members of the Board, the Secretariat of ASRB is headed by Secretary, ASRB.

Mandate and functions of ASRB

(a) The Recruitment Board shall function as an independent recruiting agency and shall be responsible for recruitment to postsin the Agricultural Research Service and to such other posts and services as may be specified by the President from time to time.

- (b) The Recruitment Board shall render such other assistance to the Council in personnel matters including promotion as may be required by the President.
- (c) The Recruitment Board shall advice the Council in disciplinarymatters relating to personnel recruited/appointed either by the Councilitself or in consultation with the Recruitment Board.
- (d) The Recruitment Board shall submit annually by the second week of May of the year following the financial year a report on its activities for each financial year to the President.
- (e) Recruitment of grade S-I (Rs.700 1300) of the ARS through AllIndia Competitive Examination;
- (f) Induction of existing scientists of ICAR to the ARS under initial constitution of ARS. *Achievements made by the Board*

Recruitment of Scientists at the entrylevel (S-1) is done through All India Competitive Examination and throughopen advertisement and personal discussion, every year. Combinedwith the above examination National Eligibility Test for recruitment ofLecturers and Asstt. Professors by the SAUs and for award of ICARResearch Fellowship are also conducted by the Board annually. Recruitmentto the posts of Senior Scientists, Principal Scientists, Project Coordinator,Zonal Coordinators, Heads of Division/ Regional Stations of ICAR Institutes and RMPs, for vacancies as indicated by the ICAR from time to time is madeby ASRB on the basis of interview/ personal discussion. In addition to the scientific posts, the ASRB has also recruitedtechnical personnel, administrative and accounts personnel. Both on limited and open competition basis. The direct recruitment to the post of Finance and Accounts Officers and Administrative Officersin the combined cadre of F&AO were also carried out by the Board. With the adoption of UGC pay package w.e.f. 1.1.86 and formulation fa comprehensive scheme of career advancement for ARS Scientists underthe ICAR, the career advancement of scientists in

(pre-revised) to Scientists (Senior Scale) in the pay scale Rs.3000-5000(pre-revised) and Scientists (Senior Scale) to Scientists

(Selection Grade/ Senior Scientists) were carried out by the Boardregularly. Assessment Committees for grant of Merit Promotion/ Advanceincrement for the technical personnel have also been undertaken bythe Board.

Problem/ constraints encountered by the Board

the pay scale of Rs.2200-4000

Except that the post of Chairman, ASRB whichhas fallen vacant since 18th February, 2000, the Board has no material problems/constraints to be specified at this stage.

2.43 The Department was also asked whetherthe ASRB has been fulfilling its objective up to the satisfaction of theDepartment and the nation as a whole. The Department stated that: The ASRB has been handling the entire recruitment processof the Agricultural Scientists of ICAR to cater the needs of theResearch Institutes of the Council located in different parts of the country. The Board has always endeavoured to perform its mandate and functions to the satisfaction of the Department and for the promotion of AgriculturalResearch at the national level.2.44 When asked about the reasons as to why so many posts of scientistslying vacant in the ICAR institutions and about their urgent filling, theDepartment stated:

Recruitment is a continuous process. Vacancies fallingin the various grades of scientists due to retirement, resignation etc.are filled through the Board on continuous basis. For filling upthe post of Scientists at entry level, the ASRB conducts a competitive examination on All India basis every

year. During the last threeexaminations, 606 Scientists have been recruited by the Board. Apartfrom this vacancies in other grades of Scientists such as Sr.Scientists, Principal Scientists have also been filled on directrecruitment basis. During the last three years, 541 Scientists in these grade have been recruited. However there are still about500 vacancies for which requisitions have been sent/ being sent to ASRBfor filling them up through advertisement and interview. However,it is worth pointing vacancies are less than 10 per cent of the ScientificCadre Strength. Neverthless it is expected that in the next 2 years,there will not be any back log of vacancies.**Project-based Budgeting (PBB)** 

- 2.45 The Committee noted that in view of thenational fiscal deficits as well as donor fatigue for agricultural sector, better financial management is called for, to get better values of the investments. It is in this context, project-basedbudgeting (PBB) becomes highly relevant to meet resource allocationfor high priority projects around available expertise only and also tomake scientists involved, responsible as well as accountable for utilisingfunds judiciously and for meeting research targets successfully throughrequired decentralisation down the line. The system of PBB has been introduced in the ICAR w.e.f. April, 1998.
- 2.46 The Committee wanted to know about theimpact of PBB system introduced two years back on the financial and functionalactivities of the Department. The Department in their reply stated:The Project Based Budgeting (PBB) in a complex system needsfar more reorientation, readjustment and change in working. All theInstitutes, Directorates, Bureaux and National Research Centres are sensitized. Documents are prepared, discussed and widely circulated. Now in programmeslike NATP, the concept of project based budgeting is implemented. The initial indications are: increase in efficiency, effectiveness, relevanceand accountability. CROP

#### **HUSBANDRY HEAD 2415**

## Separate Budget heads for Crop Science and other Programmes underCrop Husbandry

- 2.47 The Parliamentary Standing Committeeon Agriculture in their Tenth Report (1996-97), vide Recommendation SI.No.2had recommended that the Budget Head for Crop Husbandry should be suitablymodified so that the allocation to other sectors such as Crop Science, Horticulture etc. are properly reflected in the Demands for Grants.
- 2.48 The Department in their Action Taken Replyhad stated that the recommendation of the Committee was being implemented to provide different budgetary heads to reflect their allocations appropriately.
- 2.49 Further, during the Scrutiny of Demandsfor Grants 1999-2000, the Department was again asked as to why the Departmenthas not so far implemented the recommendation of the Committee in spiteof its assurance to the Committee that the needful was being done at theirend.

  2.50 In their reply the Department stated that Ministry of Finance was approached during April, 1997 but has not cleared/approved the proposal giving the remarks to seek CGAs approval to change the standardnomenclature of heads prescribed by him before approaching Ministry of Finance for issuing corrections of the Detailed Demand. Consequently, the CGA was approached in November, 1997 but no responsewas received by the Department till April, 1999. The Department assured the Committee that the matter would be pursued with CGA/Ministry of Financetill the issue was finalised.

- 2.51 Even in the latest Demands for Grants2000-2001, the Budget Heads have not been suitably modified as per therecommendation of the Committee.
- 2.52 The Department was asked why it has notbeen able to achieve the desired results in this regard by convincing CGA/Ministry of Finance for more realistic and unambiguous presentation of the Department of the Department in the light of the recommendation of the Committee. The Department replied as under:

For separate Budget Heads for Crop Science and other programmesunder Crop Husbandry, the Ministry of Finance has not cleared the proposal. It will be further pursued with the Ministry of Finance.**Crop Science** 

2.53 The financial data given below relatesto Crop Science Sector which is directly responsible to cater to the R&Dneeds of food grains for the nation.

(Rs. in crore)

Sector	BE 1999-2000	RE 1999-2000	Anticipated		
Expenditure	Shortfall	BE 2000-2001			
Crop					
Science	97.00	94.00	94.00	3.00	104.0
0					

2.54 On the Points of under-utilisation of funds upto Rs.3.00 crore during 1999-2000 by this Sector and reasonsfor fixing BE- 2000-2001 for RS.104.00 crore whereas even Rs.97.00 crore could not be fully utilized in 1999-2000, the Department replied: The Crop Division continued to be in position to utilise itsfull allocation of 97 crores. However due to overall cut of allocation to ICAR by Ministry of Finance, the total allocation of Crops Division was reduced to Rs.94 crores from Rs.97 crores at RE levelhence there was no shortfall.

As explained above Crop Science is in position for effective utilisation for resources if made available during 1999-2000. The actual allocation during 2000-01 is indeed short of its actual requirement as already almost all of its 9th Plan Schemes/ Programmes have been cleared and needadditional resources for their timely implementation.

### **Foodgrains Production**

			(Million Tonnes)				
Crop	1995-96	1996-97	1997-98	1998-99	1999-2000		
					(Estimated)		
Rice	77.0	81.7	82.5	86.0	87.5		
Wheat	62.1	69.4	66.3	70.8	68.7		
Coarse							
Cereals	29.0	34.1	30.4	31.5	29.2		
Pulses	12.3	14.2	13.0	14.8	13.5		
Foodgrains	180.4	199.4	192.3	203.0	199.1		

2.55 Increasing foodgrains production over andabove the population growth of the country per annum has been a matterof concern for all the nation but there are limits to increasing productionthrough area expansion as country has almost reached a plateau in so faras cultivable land is concerned. The area under foodgrainshas more or less remained constant at around 125

million hectares since1970-71. However, due to aberrant weather conditions during the currentyear, the area is likely to go down to 123.3 million hectares. Hencethe emphasis has to be on increasing productivity levels. Overallgrowth rate of foodgrains production decelerated to 1.80 per cent per annumduring the decade of nineties which is just about equal to annual populationgrowth and therefore, is a matter of concern.

- 2.56 The estimated production of rice is reported to be 87.5 m.t. in 1999-2000 which is 1.5 m.t. higher than 1998-99 production of 86 m.t. i.e., an increase of 1.7 per cent in production. The estimated production of Coarse Cereals is reported to be 29.2 m.t. as against 31.5 m.t. produced last year, a decline by about 2.2. m.t. or about 7% compared to 1998-99. The production of pulses this year is expected to be 13.6 m.t. as against 14.8 m.t. produced last year. Whereas decline in coarse cereals output is reported to be due to substitution effect, failure in improving growth in pulses is quite a setback. The decrease in pulses production of 1.2 m.t. is about 8.2 % lower than produced last year. Higher output of rice is unlikely to offset fully the decline in production of coarse cereals and wheat. Hence estimated foodgrains output of 199.1 m.t. in 1999-2000 would be lower by about 4m.t. representing a decrease of 1.9% over the preceding year.
- 2.57 Overall, the growth in 1999-2000 of agricultureand allied sectors is likely to be only 0.8% compared to growth of 7.2 % last year.

# **Food Crops**

2.58 The details of approved outlays, Expenditureetc. for 1999-2000 and BE 2000-2001 of the following schemesunder the food crops programme are as under:

				(Rs. ir	ı lakh)		
SI.N	No. Sche	eme	BE 1999-2000	RE	Anticipated	Shortfall	BE 2000-
200	1						
					Expenditure		
1.	Indian Agric	ultural					
	Research In	stitute	950.00	925.00	925.00	25.00	940.00
2	Central Rice	Research					
	Institute		335.00	300.00	300.00	35.00	500.00
3	3 Indian Institute of Pulses						
	Research		350.00	150.00	150.00	200.00	320.00
4	AICRP Pulse	es					
	(MULLARP)		240.00	220.00	220.00	20.00	275.34
5.	AICRP Pear	rl					
	Millet		140.00	125.00	125.00	15.00	140.00
6.	AICRP Sma	II					
	Millet		135.00	85.00	85.00	50.00	100.00

2.59 The Department was asked to give reasonsfor under-utilisation of funds in each of the above mentionedschemes. The Department replied as under:

Due to overall cut of allocation to ICAR by Ministry of Finance at RE 1999-2000 the total allocation of Crops Division was reduced toRs.94 crores from Rs.97 crores and due to which allocation to institutesnamely IARI, and CRRI and three AICRPs namely Pulses (Mullarp), PearlMillet and Small Millets were reduced based on their expenditure trendswith the objective to

judicious and fuller utilisation of the scarce resourcesmade available for crop science research during the year. In case of IIPR, research laboratories were to be constructed. NowSFC has cleared the 9th Plan proposals. Estimates from CPWDare also available. Hence the shortfall would be compensated rather early.2.60 Crore of Rupees are spent every yearon Pulses Research activities without any major breakthrough to increaseproductivity and production of pulses in India. Each year new varieties are released. In 1999-2000, eight new varieties were released andnotified still pulses production went down by 8.2 % as compared topulses produced in 1998-99.

2.61 The Department was asked whether any longterm strategy was being contemplated to give a new direction to pulses research in India. The Department in a written reply stated: Pulses production has shown upward trend in the last fewyears. The production of pulses was 14.83 million tones during 1998-99compared to 13.07 million tonnes in the previous year i.e. 1997-98. This amounts to 13.31 per cent increase in production of pulses during1998-99 compared to the previous year. It is emphasized that pulsesare grown in rain-fed situations, which are highly influenced by year toyear fluctuation in the rainfall pattern and infestation of various diseasesand pests. Application of input such as improved seed, fertiliserand life saving irrigation are also suboptimal.

Although, the major breakthrough in pulses production is yet tobe realised, the improved production technologies have been developed byICAR for different pulse crops. If these technologies are adopted substantially by the farmers, the production of pulses will certainly furtherincrease. The data of the frontline demonstration conducted in farmers field clearly indicate that the yields of pulses to the extent of 20-40per cent can easily be increased through adoption of improved technologies developed by ICAR.

After SWOT analysis, the ICAR has initiated plans for technological development and backstopping on a long term sustainable basis for increasing the production of pulses in the country. A VISION document on pulses for 2020 has been prepared by effectively utilizing the vast national scientific expertise and experience in 1997. In this visionary document, appropriate strategy has been outlined for improving the yield potential of pulses through acceleration of efforts, in basic, strategic and applied research. Accordingly, the crop oriented and time targeted specific research programs are delineated and are being implemented in the IXth Plan. Forage Crops 2.62 The BE, RE, Anticipated expenditure 1999-2000 and BE 2000-2001 for two schemes under Forage Crops are as under:

(Rs. in

Lakh)					
SI.No.	Scheme	BE 1999-2	:000 RE	Anticipated Expenditure	BE
2000-2001	<u>1</u>				
1. Inc	dian Grasslandand				
Fodde	er Research				
Institute	120.00	150.00	150.00	155.00	
2. AICR	P Forage				
Crops	160.00	255.00	255.00	213.14	

- When asked about the exact sources andreasons for additional funding of both the 2.63 schemes mentioned above at REstage during 1999-2000, the Department replied :Additional funds of Rs.30 lakhs were allotted to Indian Grassland& Fodder Research Institute for purchasing some important equipment and for renovation of old buildings. Similarly, additional funds of Rs.95 lakhs were allotted to AICRP Forage Crops for clearing theirlong pending arrears payment, which could not be paid during previous years due to shortage of funds. Additional funds were allotted from the overall allocation to the Crops Division giving priority to the arrears payment, purchase of most essential equipments and renovation.2.64 The Committee also enquired about the foragecrop that has highest yielding capacity per hectare/lowest yielding capacity and the regions where these were grown. The Department stated as under: Napier-bajra hybrid and paragrass are two highest yieldingforage crops with a yield potential of about 180 tonnes of greenfodder per ha. Napier-bajra hybrid is cultivated throughout the country, except temperate and sub-temperate areas of Himalayas. Paragrassis grown in marshy and waterlogged areas. Rice bean and cluster beanhave the lowest yielding capacity among cultivated forage crops. Rice bean is mostly cultivated in Bihar, Orissa, Andhra Pradesh, West Bengaland NE region. Cluster bean is generally cultivated in aridregion in northwest India. The yielding capacity of rice bean andcluster bean is about 20-30 t/ha. Comercial Crops
- 2.65 The BE, RE, Anticipated Expenditure etc.1999-2000 and BE 2000-2001 for some of the schemes under commercial cropsare as under:

(Rs. in Lakh)

SI.No. Scheme BE 1999-2000 RE Anticipated Expenditure BE 2000-2001 Central Instituteof 1. Cotton Research 130.00 120.00 120.00 130.00 2. Central ResearchInstitute for Jute and Allied 175.00 **Fibres** 100.00 100.00 170.76 3. Sugarcane 200.00 BreedingInstitute 220.00 200.00 210.00

- 2.66 The Department was asked to givereasons for shortfall in expenditure in each of the three schemes mentionedabove. Due to overall cut of allocation to ICAR by Ministry of Finance, the total allocation of Crop Division was reduced to Rs.94 crores from Rs.97 crores and due to which allocation to three institutes namely CICR, CRIJAF and SBI were reduced based on their expenditure trends with the objectives to judicious and fuller utilisation of the scarce resources made available for crop science research.2.67 The Committee while scrutinising the Demands for Grants 2000-2001 in respect of DARE noted that a Mini Missionon Cotton Project with an approved outlay of Rs.5.00 crore for 2000-2001 against a proposed outlay of Rs.30.00 crore is to be started during 2000-2001.
- 2.68 The Committee were keen to know the details and objectives of the Mini Mission and whether its objectives would be fulfilled with an outlay of Rs.5.00 crore against a proposed outlay of Rs.30.00 crore. To these points, the Department replied as under:

The Mini- Mission- I has been started for stepping up timetargeted specific research efforts to fill up critical gaps in developingfarm worthy production and protection technologies with potential of enhancing cotton productivity on a sustainable basis.

During the last 3-4 years, the cotton crop was suffering from increasedincidence of pests and diseases and bad weather and as a result, the yieldand production were adversely affected. Consequently, availability of raw material to the vast growing industry was becoming a problem. Hence, concentrated R&D efforts to achieve higher production on thesustainable basis, the MMI was envisaged.

The Technology Mission on Cotton has been approved by the Governmentof India vide Cabinet Secretariats letter No.I/CM/2000(i) of 17th January 2000 and the Mission was launched by the Honble Prime Ministeron 21st February 2000.

The approved outlay of Rs.5.00 crores for 2000-2001 as against the proposed outlay of 15.00 crores is not sufficient to carry out different activities under MMI. It is hoped that an additional committed amount of Rs.10.00 crores by Department of Agriculture and Cooperation, GOI for the year 1999-2000 would be made available in early 2000-2001. Hence, the total amount available for 2000-2001 would be Rs.15.00 crores. The remaining amount, if made available, can be effectively utilised duringthe subsequent year or IXth Plan.2.69 The Department was also askedwhether the Central Institute of Cotton Research and AICRP-Cotton havefailed to give the desired positve research for overall growth of cotton production, if not, then why a special Mini Mission on Cotton envisaged with such a huge funding. The Department in their reply stated: The Central Institute for Cotton Research (CICR) and the All India Coordinated Cotton Improvement Project (AICCIP) have madesignificant achievements and as a result area, production and productivityhave increased in the country. India has the distinction in the worldto produce and commercialise the first cotton hybrid in 1970. Thereafterseveral varieties/ hybrids, production and protection technologieshave been developed. As a result area and production increased to 9.12 m ha with production of nearly 14.2 m bales in 1997-98 as compared to 8.0 m ha with production of 5.78 m bales of cotton in 1967-68. But because of development of insecticide resistance in American Bollworm (Heliocoverpa) and recent occurrence of Leaf Curl Virus disease in NorthIndia, and the fact that cotton is grown on marginal soils and underrainfed conditions in large areas of the country and for the improvement of fibre quality to compete globally, it was felt that the R & D efforts need to be accelerated in a time bound manner to achieveresults. Therefore, Mini-Mission-I was envisaged. Hence, theadded thrust would augment, complement and scale up priority efforts inmaking India competitive in terms of cost and quality of cotton toattain and sustain advantages regionally and globally.2.70 India is one of the most efficient producersof sugar. There is surplus in stock. Imports are cheaper thandomestic sugar. Farmers are not paid their dues by factory owners. Sugarcane grows in surplus. ICAR has :(i) Indian Institute of Sugarcane Research with Rs.9.15 crore9 th Plan outlay

- (ii) Sugarcane Breeding Institute with Rs.7.65 crore 9th planoutlay
- (iii) AICRP-Sugar crops with Rs.8.98 crore 9 th plan outlay

  TotalRs. 25.78 crore is earmarked for sugar research.
- 2.71 The Department was asked to justifythe necessity of such a heavy expenditure on sugarcane research while thevital resources could be better utilised for R&D of other cropswhich

suffer from lack of funds availability. The Department in theirreply stated: Sugarcane occupies nearly 4.0 m ha in our country. India is the second largest producer of sugarcane and sugar in the worldafter Brazil. About 40 million sugarcane growers and their families are dependent on sugarcane cultivation. Unlike other industries, almost all sugar factories are located in rural India and the industryalso plays an important role in the socio-economic upliftment of ruralpeople. With the ever-increasing population in the country, it is important that there is sufficient production of sugarcane and sugar to meet the domestic as well as export needs. Therefore, strong R &D institutions are needed to develop improved varieties, production and protection technologies on sustainable basis. If this is not done, then there can be a shortage of sugar and a lot of precious foreign exchange will be required to import sugar.

The IISR, Lucknow; SBI, Coimbatore; and All India CoordinatedResearch Projects on Sugarcane were established with specific objectivesand mandates. IISR, Lucknow has the mandate i) to conduct basic andapplied research on all aspectss of production and protection technologiesof sugarcane and sugarcrops at national level. ii) to developvarieties of sugarcane for subtropical India. SBI, Coimbatorehas i) to conduct basic and strategic studies on cropimprovement including development of superior varieties and genotypes, and supply of Fluffs to the State Agricultural Universities as crossescan only be made in this type of environment, and ii)collection, maintenance, evaluation, documentation and conservation ofsugarcane/Saccharum species genetic resources etc. The CoordinatedProject is entrusted with the responsibility of conducting multi-locationaltesting of varieties in the country to develop region/location specificvarieties/ technologies.

In the fast changing environment and to manage the changerather effectively, continuous research efforts are imperative. Henceit will not be in the national interest to reduce expenditure onsugarcane research.

#### Oilseed

2.72 There are nine major oilseeds namely groundnut, castorseed, seasum, nigerseed, soyabean, sunflower, rapeseed/mustard, linseedand safflower. Of these groundnut, rapeseed and mustard andsoyabean occupy commanding position in terms of total production. During 1999-2000 the oilseed production is expected to be 21.6 milliontones compared to 25.2 m.t. produced last year. This is ascribedmainly to a large decline in groundnut production in Gujarat.

2.73 The BE, RE and Anticipated Expenditureduring 1999-2000 and BE 2000-2001 for NRC Groundnut and NRC Rapeseed andMustard are as follows:-

(Rs.	ın	lakh)
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Scheme		BE 1999-2000	RE	Anticipated	
Expenditure	BE 2000-2	2001		_	
NRC					
Groundnut		145.00	105.00	105.00	1
25.00					
NRC Rapes	eed and				
Mustard	350.00	300.00	300.00	300.00	

2.74 When asked about the reasons for under-utilisation of funds in both of the schemes mentioned above, the Department

replied: Due to overall cut of allocation to ICAR by Minstry of Finance, the total allocation of Crops Division was reduced to Rs.94 crores from Rs.97 crores and due to which allocation to two institutes namely NRC Groundnut NRC Rapeseed Mustard were reduced proportionately based on their expenditure trends with the objective to judicious and fuller utilization of the scarce resources made available for crop science research. 2.75 The Committee wanted to know the reasons for large decline in groundnut production in Gujarat and remedial measures that have been taken or proposed to be taken to improve the situation by the Department. The Department in their reply stated as under: The main reason for large-scale decline in groundnut production in Gujarat in the current year has been due to failure of rains in the major groundnut growing areas. In order to make up the losses in the kharif season, farmers are encouraged to take up groundnut in Rabi-summerseason, which have higher yield potential compared to kharif season groundnut. Improved production technology for rabi summer and groundnut cultivation being popularized to realise high productivity and profits.

# **New Initiatives under Crop Science Sector**

- 2.76 The financial statement of the Departmentshows a provision of Rs.250.00 lakh for Directorate of Millets and a provision of Rs.378.33 lakh for National Bureau of Agricultural ImportantMicrobes and Insects as IX plan outlay.
- 2.77 The Committee asked the Department to state as to why no outlay/ expenditure has been made so far in 1st fouryears of the 1Xth Plan under these two new initiatives. The Departmentreplied as under: A Committee has already been constituted to selectthe sight of the Directorate of Millets. SFC Memo will be submittedimmediately after the receipt of recommendation of the Committee. Therefore, no outlay has been proposed for the Directorate of Millets during1999-00. Similarly, the SFC Memo of National Bureau of Agril. ImportantMicrobes is not yet cleared due to which no outlay has been proposed forthe year 1999-00.2.78 When asked about as to how the fundsallocated for both of the schemes proposed to be utilised, the Departmentreplied: Funds will be utilised during remaining periodof the 9th Plan after the clearance of 9th Plan proposals of Directorateof Millets & National Bureau of Agricultural Important Micro-organisms.

# SEED TECHNOLOGY RESEARCH AND BREEDER SEED PRODUCTION National Seeds Project

2.79 IX Plan outlay is Rs.2749.84 lakh. The details are as follows:

(Rs. in lakhs) Year Approved Outlay Expenditure 1997-98 290.00 329.93 (actual) 1998-99 382.17 (actual) 350.00 1999-2000 340.00 340.00 (RE) 2000-2001 392.08 Total 1372.08

- 2.80 The approved outlay in the 1st four yearsof IX Plan is 49.89% of IXth Plan outlay. Under the sectorHorticulture- Vegetables Vegetable Seed Project has been allocated anamount of Rs.423 lakh for IXth Plan. The 1st four year allocationis Rs.360.00 lakhs. The utilisation is only Rs.320.00 lakhs
- The Department was asked to state whetherit would be possible to utilise more than 50% 2.81 funds in the final and 5th year of the IXth Plan under National Seed Project. The Departmentstated :Seed is the basic input to agriculture. Hence it is considered most vital for enhancing productivity and production of different crops. Accordingly, the programme is strengthened in IXPlan for which EFC is cleared in 1999. As such, there is committedliability of Rs.1315.69 lakhs in the rest of the period of IX plan. Thus, the balance of about 50% funds will be fully utilized in the remaining period of IX Plan.2.82 As seeds (breeder/certified) are usually a scarce commodity amongst farmers, the Committee wanted to knowthe efforts made by the Department to see that adequate quantity of certifiedseeds are available to farmers in village/ block level. The Departmentin their reply stated as under: A one time provision of revolving fund to the tune of Rs.402.5lakhs has been made in various ICAR institutes and SAUs to avoid the problem of recurring contingencies for the production of breeder seed. The provision has proved most effective in meeting the requirement of breederseed. The breeder seed is further multiplied to produce foundationseed and subsequently certified seed. To further upgrade the system, the institutes have been allowed to plough back the profit for strengthening the breeder seed production capabilities.

Off- season nursery facilities have been developed in the country sothat in case of emergency the breeder seed multiplication programme can be taken up.

Every year the whole situation of breeder seed is reviewed meticulously. All aspects of seed including production of breeder seed and itseffective utilisation are reviewed. Consequently, the certified/quality seed availability has increased from 5.6 lakh quintals during 1970-71to 70 lakh quintals during 1996-97, and 84.97 lakh quintals (tentative)during 1998-99. Horticulture 2.83 The Horticulture sector which includes a wide variety of crops such as fruits, vegetables, spices, plantationcrops, floriculture, medicinal and aromatic plants, cashew etc. is recognised as an important sector for potential diversification in agriculture. India is the largest producer of fruits crops and accounts for 10% of worldproduction of fruits crops and is largest producer of vegetablesnext only to China with an annual estimated production of 85 milliontonnes in 1998-99, including potato production of 23.5 m.t.

2.84 The BE, RE, Anticipated Exp. 1999-2000and BE 2000-2001 for some of the schemes under the Horticulture sectorare as under :-

	(Rs. in lakhs)					
Scheme	BE 1	999-2000	RE	Anticipated		
Expenditure	Shortfall	BE 2000-	2001			
Indian Institute	e of					
Horticultural						
Research	330.00	240.00		240.00	90.00	250.
00						

Central Instt. F	Central Instt. For							
Subtropical								
Horticulture	180.00	90.00		90.00	90.00	160.		
00								
NRC-								
Grapes	180.00	120.00		120.00	60.00			
170.00								
Central Institut	e of							
Temperate								
Horticulture	150.00	90.00		90.00	60.00	175.		
00								
NRC-								
Banana	160.00	120.00		120.00	40.00			
180.00								
NRC-								
Mushroom 100.00	120.00	80.00		80.00	40.00			
AICRP Veg.								
Research	190.00	120.00		120.00	70.00	170.0		
0								
Central Plantat	tion Crops							
Research								
Institute	260.00	180.00		180.00	80.00	190		
.00								
Central Agricul	ltural							
Research								
Institute	150.00	120.00		120.00	30.00	200.		
00								
NRC-								
Oilpalm	150.00	65.00		65.00	85.00	1		
00.00								
NRC-Seed Spices - 5.00 5.00				5.00	-			
90.	00							

- 2.85 The Committee asked the Department give reasons for considerable shortfall in utilisation of funds in each of the above mentioned schemes. The Department replied :The reasons for shortfall are as follows:
- 1. The vacant positions could not be filled up due to ban imposedby Government
- 2. No expenditure could be incurred due to ban imposed by Governmenton purchase of vehicles.
- 3. The administrative approval for items of civil works got considerablydelayed on account of procedural formalities. Most of the major worksitems have since been sanctioned.2.86 The Committee noted that Central AgriculturalResearch Institute and Central Institute of Sub-tropical Horticulture hasbeen allocated Rs.200.00 Lakh and Rs.160.00 Lakh respectively for2000-2001

while each of them could utilise Rs.120.00 Lakh and Rs.90.00 respectively during 1999-2000.

2.87 The Department was asked to justify theenhanced allocations in favour of these two schemes. The Departmentreplied :Higher provision has been made for Central AgriculturalResearch Institute (CARI), Port Blair, in order to undertake approved itemsof civil works urgently; for which administrative sanction has recentlybeen issued.

A new regional research center has been approved during IX Plan forCentral Institute of Subtropical Horticulture (CISH), for whichsanction has been issued recently. Higher provision has been madeto complete ongoing civil works at CISH Headqrs, Lucknow and new itemsapproved in 9th Plan including the new regional research centre.2.88 When asked to state whether all these instituteshad full sanctioned number of scientists on their strength, the Departmentreplied :At CISH, Lucknow, 41 scientists as against sanctioned cadrestrength of 42 and at CARI, Port Blair 35 scientists against 59 sanctionedposts are in position.2.89 The Committee also noted that NRC Seed spicesspent Rs.5.00 lakh without any allocation in BE for 1999-2000 and Rs.90.00lakh have been allocated to it in BE 2000-2001. The Departmentwas asked to give justification for the same and they clarified asunder:

NRC Seed Spices has not incurred any expenditure so far. It is a new National Research Centre sanctioned recently. In orderto initiate work, a token provision of Rs.5 lakhs has been kept under RE 1999-2000 under other charges. During BE 2000-2001 a sumof Rs.90 lakhs has been provided for utilisation for the approved IX Planitems, including civil works.2.90 The Committee noted that on page 323, justabove the Total (Horticulture) line in the financial statement of the Deptt. two entries have been made namely:

(Rs.

in lakh)

BE (1999-2000)	RE	A. Expenditure	BE (2000-2001)	
Payment of Past			_	
arrears	0.00	160.00	160.00	0
.00				
Additional grant to				
Bhubaneshwar due				
to cyclone				

2.91 The Committee wanted to know as to howthese past arrears have accured and details of Institutes which havereceived these arrears. To these points, the Department replied:

The past arrears are for committed expenditure under the head Salaryaccrued due to pay revision enhancement of DA rates for different AICRPCentres operational at different State Agricultural Universities (SAUs).

Details of Institutions which have received these arrears areas follows:

1. AICRP on Vegetables = Rs.124.00 Lakhs
II. AICRP NSP ( Vegetables) = Rs. 25.00 Lakhs
III AICRP PHT for Hort.Crops = Rs. 10.00 Lakhs
IV. Network Project on Appled Scab
(Phased out w.e.f. 1.4.98 = Rs. 01.00 Lakh

2.92 When asked about the sourcesfrom where Rs.160.00 lakh had been provided as there was no BE 1999-2000 for payment of Past Arrears, the Department clarified: Provision of Rs.160 lakhs has been reflected at page 31 in the ICAR Budget Book 1999-2000; which has not been reflected in the statement inadvertently.2.93 The Committee also enquired about theinstitutes/ schemes which were to get the Additional grant in Bhubaneshwar due to cyclone and reasons for not making any BE/RE in 1999-2000. To these points, the Department stated: Two Institutes, namely, IIHR, Bangalore and CTRI, Trivandrum have their Regional Centres at Bhubaneswar. An additionalgrant @ Rs.10 lakh each has been approved for these institutesfor their Regional Centres. Approval of Competent Authority to incurexpenditure from within the Plan Allocation of the Horticulture Division has been obtained. Natural Resource Management (NRM) 2.94 The BE, RE, Anticipated Expenditure and shortfallfor 1999-2000 and BE for 2000-2001 under some of the schemes of NRMsector is as under:

(Rs. in lakhs) Sl.No. Scheme BE 1999-2000 RE Anticipated Expenditure Shortfall BE 2000-2001 Water Technology Centre for Eastern 130.00 44.00\* Region 174.00 130.00 220.00 2. **AICRP Optimisation** of Ground Water utilisation throughwells 35.00 35.00 75.00 60.00 25.00\* AICRP on Management 3 of Diaraland Improvement 40.00 20.00 20.00 20.00\* 42.00 **Project Directorate** Cropping System Research 268.00 90.00 90.00 178.00\* 148.00 5. **NRC** 165.00 165.00 41.00\* 178. Agroforestry 206.00 00 6. **ICAR Research Complex** for NEH 300.00 Region 400.00 300.00 100.00\* 445.00

<sup>\*</sup> Anticipated.

- 2.95 The Committee noted that all the six schemes mentioned above have under-utililsed the funds allocated tothem and BE 2000-2001 have been fixed much higher than the AnticipatedExpenditure for 1999-2000.
- 2.96 The Department was asked to give reasonsfor under-utilisation of funds as well as justification for higher allocationsfor 2000-2001. To these points, the Department stated as under:In case of Water Technology Centre for Eastern Region,Bhubaneshwar, Project Directorate Cropping System Research, NRC Agroforestry,ICAR Research Complex for NEH Region, the shortfall in the expenditure on account of recent approval of the IX Plan EFC memos. Therefore,in the year 1999-2000 need based allocation of only approved/ vetted civil works and procurement of essential equipments is made.

As far as two Coordinated Research Projects on GroundwaterUtilisation and Diaraland Improvement are concerned, the shortfallin the expenditure is due to vacant position in the State AgriculturalUniversities on account of ban on recruitment.

Now IX plan sanctions have been issued and it is expected that in the next financial year (2000-2001), the essential civil worksand procurement of equipements will be undertaken. Hence, the enhanced budget allocation.2.97 The Committee also enquired about the optimal functioning of ICAR Research Complex for NEH Region, and to this point the Department replied: The ICAR Research Complex for NEH Region is functional and research programmes are being taken up as per its approved mandate. However, at the Regional Stations, scientific positions are vacant because of location-specific constraints. The Council is taking necessary steps to fill up these posts on priority basis. As a matter of factat one stage a special recruitment for NEH region was also taken up by the Council. New Initiatives Under NRM

2.98 Two programmes have been mentioned underthe New Initiatives sub-heading of the Natural Resource Management Sectorin the Financial Statement of DARE as under:

SI.No.	New Initiatives	9th Plan Outlay		Annua	al
Plan	Annual Pla	an 2000-2001			
		1997-2000		1999	9-2000
			BE	RE	Anticipated.
					Expenditure
1. ICAR F	Research Complex for				
Easter	n Region	376.00	100.00		
0.00	0.00	110.00			
2. Region	al Research Station C	SSRI			
at Luck	now	80.00	0.00		

- 2.99 The Committee noted from the financial statement of DARE that no alloction was made for ICAR Research Complex for Eastern Region during 1997-98 & 1998-99 whereas in 1999-2000 inspite of Rs.100.00 Lakh (BE) no expenditure has been incurred, however, BE 2000-2001 has been kept at Rs.110.00 Lakh.
- 2.100 When asked about these seemingly irrationalbudgeting pattern, the Department stated as under: The new initiative on ICAR Research Complex for EasternRegion was to be established at Patna on a piece of land to be madeavailable by the Government of Bihar. The State

Government took along time to agree in principle and thus no budget allocation was madeduring 1997-98 and 1998-99.

Rs.100.00 lakhs were made as token provision in anticipation ofphysical possession of land from Government of Bihar but it is yet to be finalised. Therefore, proposed expenditure could not be incurred.

It is expected that Government of Bihar may provide physical possession of land shortly. The IX plan EFC memo has been finalised and expected to be approved shortly.

Therefore, in 2000-2001 a token provision of Rs.110.00 lakhs has beenmade.2.101 The Committee also enquired from the Department as to why no annual allocation has been made so far in any ofthe four years of IXth Plan for Regional Research Station CSSRI at Lucknow. And the Department in their reply stated: Allocations for the Regional Station of CSSRI, Lucknowhave been included in the budget proposals for the main institute, i.e., Central Soil Salinity Research Institute, Karnal and hence no separate allocations have been shown for regional station (Lucknow). 2.102 Performance Budget 2000-2001 of DARE at page 46 under the heading Water Management reveals that Reclamation of water logged area through construction of pond and raising of surrounding fields wastried in Puri district which resulted in higher productivity of Kharifland Rabi Crops and fish in the pond.

2.103 The Department was asked to provide self-explanatorystatistics claiming higher productivity of crop and fish in the pond afterthe successful completion of the project along with the names of the institutionsinvolved, tenure of the project and details of funds spent on it. The Departmentfurnished the information as under: The project area in Orissa has a rice-rice rotation. Average yield levels at the farmers fields before the project were14.52 q/ha which rose to 18.80 q/ha. after the programme implementationshowing about 29% productivity gain in rice yields. Exact figureson increase in fish productivity are not available but there was an improvementin fish catch as reported by the Institute.

Water Technology Centre for Eastern Region, Bhubaneshwar withthe active collaboration of the State line departments undertook this study. Project based budgeting is yet to be introduced and as such expenditurefigures are not available for specific projects. Tenure of the Projectwas for a period of three years.2.104 When asked about the economic viability ofthis project and whether the successful outcome of this project at Puribe passed on to other States having similar problems, e.g. Haryana, theDepartment replied as under: The interventions on land shaping etc. were made eitherby the farmers themselves or through the schemes of the Soil ConservationDepartment of the State Government. Studies have shown that theseinterventions were economically viable in humid and sub humid regions ofeastern India (Orissa, Bihar, West Bengal and eastern Andhra Pradesh). Its viability under semi-arid conditions of Haryana shall require furtherinvestigations. Agricultural Engineering

2.105 Under this sector following schemes have beenfound to have under utilization/no utilisation of funds during 1999-2000

(Rs. in

lakhs)

Scheme 9th Plan Outlay BE 1999-2000 RE Anti.

Expend. Shortfall % age of Utilisation

or first three year						,
of Agricultural						
Engineering	1275.20	345.00	260.00			
260.00	85.00	85.95				
2. AICRP Power						
Tiller	277.00	75.00	62.00	62.00	13.00	
95.49						
3. AICRP Farm						
Implements and						
Machinery	1200.00	310.00	284.00			
284.00	26.00	102.97				
4. Central Institute	е					
for Post Harvest						
Engineering Tech	nology 1163.10	340.00	217.00			
217.00	123.00	69.97				
5. Indian Lac						
Research						
Institute 456	5.00 120	0.00 80.00	80.00		40.00	9
2.65						
6. National Institu	te					
of Research on J	lute					
and Allied Fibre						
Technology	541.75	143.00	115.00			
115.00	28.00	78.75				
7. AICRP Applica	tion					
of Plastic in Agric	ulture 190.00	50.00	40.00			
40.00	10.00	101.20				
8. AICRP Jaggery	У					
and Khandsari	185.00	45.00	28.00			
28.00	17.00	87.87				
9. AICRP Harves	t					
and Post Harvest						
Technology	1150.30	310.00	232.00			
232.00	78.00	99.13				
10. Engineering N	/leasures					
for Efficient Land	and					
Water Manageme	ent** 130.00	10.00	0.00			
0.00	10.00	Nil				

<sup>\*\*</sup> This scheme has been proposed based on suggestions of PeerNumbers of H.K. Jains Committee.

- 2.106 The Committee noted the under-utilisation of funds in each of the above mentioned schemes from SI.No.1 to 9 and asked the Department to give reasons for the same. TheDepartment in their reply stated as under: There has been no shortfall in expenditure in respect of Institutes and AICRPs under the Subject Matter Division (SMD) of Agricultural Engineering. At BE 1999-2000 stage, the allocation for Agricultural Engineering Division was Rs.25 crores whichat RE stage was reduced to Rs.20.53 crores due to less allocation to the Council as a whole. Accordingly the allocation to all the Institutes and AICRPs under the Agricultural Engineering Division was reduced. The allocation provided under RE will be fully utilised.2.107 The Committee also noted that the scheme Engineering Measures for Efficient Land and Water Management has been funded with an outlay of Rs.10.00 Lakh during 1998-99 and 1999-2000, but no expenditure was incurred under this scheme.
- 2.108 The Department was asked to give reasonsfor nil utilisation and they replied: Under new initiatives a provision of Rs.10 lakhswas made for the Division for starting new projects / Programmes. This provision was not specifically for the new AICRP on Engineering Measuresfor Efficient Land and Water Management because the SFC Memoof this Project was not cleared. The EFC meeting in respectof this project was held recently on 9th March, 2000 and the project wasapproved and is likely to start from April, 2000. At RE stage sinceno funds were required for new start, the amount of Rs.10 lakhs allocated BE stage was readjusted and no provision has been made under RE 1999-2000for new start.2.109 The Committee found that Central Institutefor Post Harvest Engineering & Technology could only utilise69.97% of funds during Ist three years of IX Plan.
- 2.110 When asked as to how CIPHET would fulfilits objectives in its time frame with lower funds utilisation withreasons for the shortfall, the Department stated as under: The Central Institute of Post Harvest Engineering &Technology (CIPHET), Ludhiana is a new Institute where efforts have beenmade to build up infrastructure, recruit Scientists/staff to carry out the work proposed. Many of the posts in this Institute could not be filled and by the end of 1999, 36 posts of Scientistsout of 63 sanctioned posts could only be filled. Proportionatelythe situation for other posts (Technical, Supporting and Administrative)were kept matching. Efforts have been made to fill up the vacantposts and some new staff have been recruited now. Administrative-cum-TrainingHostel have been completed and sanctioned for Lab-cum-Office building atAbhor is being issued.

In recent past, several scientists have joined and reasonableinfrastructure has been established at both the Campuses (Abhorand Ludhiana). The Labs are being equipped and the programmesdeveloped. Research efforts are now intensified in the thrust areasof CIPHET to fulfil its objectives in time frame.2.111 The Committee enquired about the detailsof the constitution and terms of reference etc. of the H.K. JainCommittee and whether it has since submitted its report. TheDepartment in their reply informed the Committee as under:"For making a critical review of the relevance and continuanceand for improving effectiveness and efficiency of All India CoordinatedResearch Projects, the ICAR through its Office Order No.2-1/96-Plng. Dated 14th August, 1996 constituted a Review Committee of an Eminent ScientistDr H.K. Jain. The Committee comprised of following 9 EminentScientists:

- 1. Dr. H.K. Jain Chairman
- 2. Dr. M.V. Rao Member
- 3. Dr. S.S. Johl Member
- 4. Dr. J.C. Bakshi Member
- 5. Dr. D.R. Bhumbla \_ Member
- 6. Dr. S.K. Ranjhan Member
- 7. Dr. A.K. Mukhopadhyay Member
- 8. Dr. B.S. Pathak Member
- 9. Dr. Mangla Rai Member-Secretary

The Terms of Reference of the Committee was as under:

- (i) to review and consider projects that have outlived their utilityand need to be phased out;
- (ii) to scrutinise the projects that are not suited to the concept of the coordinated projects and are more relevant to be implemented as networkprogramme;
- (iii) to examine the projects that should be combined or split for effectiveco-ordination and management;
- (iv) to check the co-ordination work in respect of the crops for whichNational Centres have been established, for handing over such projects to the Director;
- (v) to clearly indicate the mandate and responsibilities of the Co-ordinator; and
- (vi) to pinpoint specific steps that should be taken to make the projectsmore effective, dynamic and responsive to the changing needs.

The Committee submitted its report in November, 1997. The Report of the Committee has been adopted by the Governing Body of ICAR and action on all the recommendations has been initiated by different Subject Matter Divisions.

## **Animal Science**

2.112 Under this sector BE, RE, AnticipatedExpenditure for 1999-2000 and percentage of utilisation of funds for Istthree years of 9th Plan for some schemes are as under:

SI.No.	Scheme	9th Plan	BE 1999-2000	RE	Anticipated
Shortfall	% age of				
		Outlay			Expenditure
	utilization				
	for 1st three				
	years of 9th				
	Plan				

1. National Bureauof

**Animal Genetic Resources** 

1267.00 220.00 170.00 170.00 50.00 95.09

OI No

Schomo

	Institute	3035.00		
580.00	500.00	500.00	80.00	84.48
3	National Institutionof			
	Animal Nutrition &			
	Physiology	1810.00		
370.00	250.00	250.00	120.00	84.60
4.	Network Mirco Nutrient	t 300.00		
90.00	55.00	55.00	35.00	63.67
5.	Network Embryo Trans	sfer 635.00		
130.00	100.00	100.00	30.00	60.65
6.	NRC Meat Product			
•	Technology	810.00		
100.00	15.00	15.00	85.00	12.62
7.	Indian VeterinaryResea	arch		
	Institute	3577.00		
680.00	600.00	600.00	80.00	86.69

2.113 The Committee asked the Departmentto state reasons for huge shortfall in utilisation of funds in respectof schemes mentioned above. The Department replied :The shortfall in expenditure for 1999-2000 has been due torecent clearance of the Expenditure Finance memos of the Institutes/Bureau/NationalResearch Centres/ Networks listed from SI.No. 1 to 7 . No new centresof some schemes proposed during IX Plan could be started and expenditureto be incurred for the new posts during IX plan could also not be takenup.2.114 When asked about the action plan if any,for optimal utilisation of funds for those schemes which have very poor percentage of funds utilisation during 1st three year of IXthPlan, the Department stated as under : The EFC/SFC of the above schemes have beencleared recently. The site for the National Research Centreon Meat has recently been finalized. The allocation proposed in the IX Plan for these schemes will be utilized during the remainingperiod of IX plan. **Fisheries** 

2.115 Under Fisheries sector following schemeshave been identified for under utilization of funds during1999-2000:

A ctual

Shortfall Excess

RE 1000-2000

51.1	io. Scheme	BE 1999-2000	KE	Actual	Shortiali	Excess
			E	xpenditure		
1.	Central Marine					
	Fisheries Research	ch .				
	Institute	400.00	460.00	460.00		60.00
2.	Central Institute					
	for Freshwater					
	Aquaculture	215.00	355.00	355.00		140.00
3.	Central Institute					
	for Brackish Wate	r				
	Aqua-Culture	350.00	300.00	300.00	50.00	

4.	Central Institut	e tor				
	Fisheries					
	Technology	550.00	290.00	290.00	260.00	
5.	National Burea	ıu				
	of Fish Geneti	С				
	Resources	325.00	225.00	225.00	100.00	
6.	Central Institut	e				
	of Fisheries					
	Education	550.00	370.00	370.00	180.00	

O - - 4 - - 1 | 1 - - 4 | 4 - 4 - 4 - 4 - 4

2.116 The Committee asked the Departmentto give reasons for over-utilisation of funds by CMFRI and CIFA and reasons for under-utilisation of funds by CIBWA, CIFT, NBFGR &CIFE. To these points, the Department in their reply stated: Due to the shortfall in allocation of plan funds, the initial allocation given to CMFRI was not sufficient under headsother charges of the institute. Subsequently this had to be enhancedfor meeting vital contingencies.

The CIFA suffered heavy damages due to super cyclone which didhave in Orissa. The extent of damages suffered to institute buildings, facilties, farm lands etc are estimated above Rs.5 crore. Extra allocationwas given to this institute by adjusting within the funds allocated to the Division. This was due to reduction of the allocation to fisheries division from the initial budget of Rs.28 crore to Rs.23 crore on account of the overall reduction in ICAR Plan allocation. **Agricultural Extension** 

2.117 Under Agricultural Extension sector the BE, RE, Anticipated Expenditure for 1999-2000, BE 2000-2001 other details in respect of five schemes under it are as under:-

(Rs. in lakh) SI.No Scheme 9th Plan outlay BE RE Anticipated Shorfall BE %age 1999-2000 Expenditure 2000-2001 Utilisation of funds during 1st 3 years 1. Integrated Krishi Vigyan Kendras 20000.00 4825.00 4457.90 4457.90 367.10 5260.00 103.57 NRC for Women 700.00 137.00 137.00 in Agriculture 175.00 38.00 302.00 38.76 ZC Unit 8 3. 270.00 270.00 242.00 TTC8 130.10 130.10 146.00

2.118 The Department was asked to give justification for a shortfall of Rs.367.10 Lakh in1999-2000 under IKVK scheme for which the Department has always beendemanding additional funds. The Department in their reply stated: The total amount indicated for B.E. is Rs.5000.00 lakhsincluding Rs.4825.00 lakhs for Krishi Vigyan Kendras (KVK) and Rs.175.00lakhs for NRC for Women in Agriculture (NRCWA).

The R.E. for NRCWA is Rs.137.00 lakhs and the remainingamount of Rs.4863.00 lakh is for KVK which include Rs.4457.90 lakh for continuation of the existing KVKs Rs.270.00 lakh for itsmonitoring through eight Zonal Coordinating Units (ZC Units), Rs.130.10 lakhs for training of KVK trainers through eight Trainers Training Centres(TTC) and Rs.5.00 lakhs for special project. There is, therefore,no shortfall in anticpated expenditure for KVK scheme considering all itsrelated components.2.119 The IKVK being the life-line of AgriculturalExtension sector, therefore, the Committee were keen to know the latest position regarding total number of KVKs in the country; the number of KVKs fully functional, partly functional and non-functional.

To these points, the Department replied as under: The total number of KVKs in the country is 261 and withthe establishment of 53 KVKs by strengthening the existing ZARS, the totalnumber will be 314.

Considering the essential requirement of land for development of instructionalfarm, administrative-cum-training building, multi-disciplinary team ofscientific/technical personnel, facilities for training on location-specificbasis, on-farm testing and frontline demonstrations; 78% of the KVKs arefully functional. Efforts are being made to make the remaining KVKs(17% partial and 5 % non-functional) fully functional by expediting thelegal transfer of land, appointment of trained staff and development ofinfrastructure.2.120 When asked about the targets fixed and achievedwith regard to opening of new KVKs during the IXth plan and reasonsfor shortfall, if any, the Department stated in their reply as under: In spite of best efforts made by the Council, additionalfinancial resources could not be made available by the Planning Commissionfor establishment of new KVKs. The Council has taken up analternative proposal for establishment of KVK in 53 districts of the country by strengthening the existing Zonal Agricultural Research Stations(ZARS) to take up the additional functions of KVK during the LX Plan period under National Agricultural Technology Project (NATP).

The Council has earlier submitted a comprehensive proposal tothe Planning Commission for establishment of the KVK in the remaining districtsof the country, and establishment of 100 KVKs with the focus on easternand north-eastern part of the country, and such other districts elsewherewhich are backward. The Council further identified 35 districtsfor establishment of a KVK on priority basis during the Plan period withthe availability of additional financial resources for the purpose forwhich SFC documents have been submitted. A note also been submitted to the Planning Commission for availability of funds from the unutilizedamount of 10% funds earmarked to various Ministries.2.121 The Committee noted that instead of openingnew KVKs district-wise as envisaged earlier, now the Department has beenstressing on strengthening the Zonal Agricultural Research Station (ZARS)by remandating their responsibility to play additional role of KVKs. The Committee wanted to know whether there has been a proposal to strenthen zonal

Coordination Unit (ZCU)/ Trainers Training Centres(TTC) as well to do the additional work of KVK and the advantages in givingthe task of a KVK to ZARS/ZCU/TTC where a KVK is not existing. To these points, the Department stated: In view of the constraints of fund and huge financialimplication for establishment of a new KVKs, the Council have taken upan alternative proposal for strengthening the existing Zonal AgriculturalResearch Station ((ZARS) in 53 districts to take up the additional functionsof KVK. There is no proposal to strengthen the Zonal CoordinatingUnit and Trainers Training Centre to take up the additional functionsof KVK since the Zonal Coordinating Units have been created to coordinate and monitor the activities of the KVK in their respective zone. The Trainers Training Centres have been established in the frontline areasof technologies including Dryland Agriculture, Horticulture, Home Science, Freshwater Aquaculture, Marine fisheries, Hill agriculture, AgriculturalEngineering and Dairying; to impart training in the frontier areas of technologies to the KVK trainers, state developmental officials andother such organisations.

However, the Council have taken up a proposal for strengtheningthe existing Zonal Research Stations (ZARSs) in 53 districts to performadditional functions of KVK. These ZARSs were established with thefinancial support from the Council under National Agricultural ResearchProject (NARP) for developing location-specific technologies on farming system perspectives. Over the years, these ZARSs have developed considerable farm-worthy technologies and the critical support to be provided by the Council under National Agricultural Technology Project (NATP) willcreate an institutional mechanism for strong linkage between technologygeneration, assessment, refinement and dissemination. 2.122 Considering the fact that still about17% KVKs are partly functional and 5% KVKs are non-functional out of atotal of 261 existing KVKs in the country, the Committee askedthe Department about the reviewing the mandatory responsibility and accountabilityaspects of all the KVKs established so far. The Department in their written reply stated: As far as the reviewing of the responsibility and accountability of the KVKs are concerned for effective planning and management, each KVKhas a Scientific Advisory Committee (SAC) consisting of the Head of thehost institution as the Chairman, Training Organizer as the Member-Secretaryand representatives from farmers, farm women, Head of the district developmentdepartments and the representatives of the ICAR Headquarters as the Members. One SAC meeting is held every six months for reviewing the progress aswell as approving the future action-plan.

The Project is monitored through 8 Zonal Coordinating Units. The Zone-I located at Ludhiana comprises of the States of Delhi, Haryana, Punjab, Himachal Pradesh and Jammu and Kashmir. The Zone-II locatedat Calcutta comprises Bihar, West Bengal and Andaman and Nicobar Islands. The Zone III which is located at Barapani comprises Assam and North EasternHill States including Sikkim. The Zone-IV comprises of UttarPradesh and is located at Kanpur. The Zone-V & VI located atHyderabad and Jodhpur include Andhra Pradesh and Maharashtra; and Rajasthanand Gujarat States respectively. The States of Madhya Pradesh andOrissa are included in Zone-VII which is located at Jabalpur, whereas, Kerala, Karnataka, Tamil Nadu, Goa and Pondicherry are in Zone-VIII which is located at Bangalore.

The Zonal Units monitor the frontline extension programmes byorganising Zonal and State level workshop, Scientific Advisory CommitteeMeeting and visits. During 1999-2000, 8 Zonal

Workshops wereorganised with the participation of the Incharges of all the KVKsto review the works done during the year and formulation of plan of actionfor the next year. Similarly 16 State level Workshops wereorganized in order to review the frontline demonstrations in oilseed and pulses and other administrative and financial issues.

A national workshop of the KVKs was organised during January,1999 at KVK, Badgaon, Udaipur. In this workshop Vice-Chancellors of SAUs, Directors of Extension Education of SAUs, Director of ICAR Institutes,Zonal Coordinators and Presidents/Secretaries of NGO KVKs participated. During the workshop an exhibition depicting various projects programmeswas also organized. This workshop is organized after everytwo years.

Besides regular monitoring and supervision by the Zonal CoordinatingUnits and Headquarters of the Council, the project has been evaluated by Committee during the sixth plan constituted by ICAR and during the SeventhPlan by a Joint FAO-ICAR Team. The recommendations of these two EvaluationReports were examined in the Council and most of them were implementedfor improvement of the Project.

In 1993, nine Quinquennial Review Teams (QRTS) evaluated and reviewed the functioning of all KVKs in the country. The recommendations of the QRTs were implemented for improving the efficiency of KVKs.

In 1995, the Parliamentary Standing Committee on Agriculturewas constituted by the Government of India to critically examine the functioning KVKs in transfer of agricultural technology under the Chairmanship of Shri Nitish Kumar, the then Union Minister of State for Agriculture. The Committee consisted of 44 Honble Members of Parliament, 29 from Lok Sabha and 15 from Rajya Sabha. The Committee also undertook, on the spot study visits to various KVKs in the country. The Committeemade a number of suggestions for the growth, establishment, funding pattern, linkages, staffing structure, internal resource generation and overall for the smooth functioning of the KVKs. The recommendations of the Committee were followed up for implementation.

During the discussions in the VIIth National Workshop of KVKs held at Tirupati in September 1995, a number of issues, concerns and constraints were brought to the notice of the Council. As a followup, two Committees were constituted to accelerate the efficiency and effectiveness of performance of the KVKs. The first Committeewas constituted under the Chairmanship of Dr. M.V. Rao, Vice-Chancellor, Andhra Pradesh Agricultural University to go into the matters related to financial and administrative management, financial support and funding pattern and, other functional and organisational aspects of KVKs. The other Committee was constituted to study the role of KVKs and TTCs in human resource development and self-employment oriented vocational training programmes. The recommendations of Dr.M.V. Rao Committeewere implemented in the light of long term perspective in view.

A Committee on Human Resource Development through KVKs and TTCswas also constituted under the Chairmanship of Dr. S.C. Mudgal, Vice-Chancellor,GB Pant University of Agriculture & Technology, Pantnagar. Themajor recommendations made by the Committee included special emphasis fordesigning vocational training courses for development of tribal women,rural youths and farmers after identification of training needs. The Committee further recommended on development of proper linkagewith the relevant Institutions. The recommendations were also

implemented.

The Governing Body of the Indian Council of Agricultural Research in its 166th meeting held in 1995 resolved to constitute a Committee under the Chairmanship of Shri S.S. Surjewala, Honble Member of Parliament & Member Governing Body. The termsof reference of the Committee included to review the existing mechanism of technology assessment and refinement in the ICAR system and suggestsuitable measures for its streamlining. The Committee made a number of suggestions in relation to the mandate, funding pattern, activities and linkages with other Institutions and organisations. The recommendations were further studied along with the recommendations of other committee for taking a comprehensive view and implemented accordingly.

A ICAR Committee for Streamlining Financial Management and Accounting Procedures of KVKs was set-up as a follow-up to the recommendationNo.18 of 36th Standing Committee of Parliament on Agriculture (1995-96). The Committee was chaired by Shri N. Parthsarthy, JointSecretary and Financial Advisor (DARE), and ICAR; Shri N.C.Agarwal, Principal Chief Controller of Accounts, Central Board of Excise and Customs, Ministry of Finance as Member representing the Controller General of Accounts, Government of India; and Dr.A.N.Shukla, Assistant Director General (KVK) as the Member Secretary. TheCommittee has given very useful recommendations to streamline the financialmanagement and accounting procedures for providing more openness and flexibility to the KVKs staff in carrying out the mandate given by the Council efficiently and effectively. Based on recommendations of the committee the financialmanagement of the KVK has been streamlined.2.123 NRC for Women in Agriculturethe Committee asked about the reasons for very dismal performance in achieving financial targets as it had achieved only 38.76 % of the allocated funds in first three years of IXth plan and justification infixing higher allocation as BE 2000-2001. The Department extended the reasons and justification as under: The Department of Agriculture of Government of Orissa and Orissa University of Agriculture and Technology took almost three years for making available the suitable land for establishment of National Research Centre for Women in Agriculture.

Keeping in view the mandate of NRCWA to develop technologiesappropriate to farm women for different production systems and to developsensitivity and capability of research and development specialists foraddressing the issues pertaining to gender implications in agricultureand allied activities the Council decided to have the post of Directorfilled with a woman scientist which took substantial time for recruitment of a woman Director of the Institute.

Since the essential posts of scientific and technical personnelincluding all the Heads of the Sections have been filled-up the expenditurefor the centre will certainly pick up during the remaining period of NinthPlan.2.124 The Committee also enquired about the objective special project started at RE 1999-2000 stage with an allocation ofRs.5.00 lakh and BE 2000-2001 fixed at Rs.50.00 lakh. And the Department informed the Committee as under: During BE 2000-2001 an amount of Rs.50.00 lakh has beenkept for Technology Evaluation and Impact Assesment Project, which was initially taken out of AP Cess Fund through a collaborative effort between the Division of Extension and Division of Crop Science. This will provide a strong feedback mechanism from the farmers at the final stage of trial and also will provide more test sites for

	ing the adaptabilityof nnolgy.					(Rs. in lakh)
S.N	•	IX Plan	BE	DE/AEvo	Shortfall	•
		IA FIAII	DE	RE/AExp.	Shortiali	% age
Utili	sation BE 2000-2001	Outlov	1000 2000			in O voore of
IV		Outlay	1999-2000			in 3 years of
IX						Diam
						Plan
1.	National Academy for					
	Agril. Res. Mgmt	1700.00	200.00			
160	.00 40.00 6	62.27%	160.00			
2.	Devp. And Strengthening					
	of State Agril. Univ.	13130.00	2710.00	2395.0	00	
315	.00 107.04%	2000.00				
3.	Devp. And Strengthening					
	of Agril. Edu. Of Central					
	Universities	500.00	100.00	75.0	0	
25.0	93.33%	75.00				
4.	Establishment of Centres					
	of Adv. Studies in SAUs					
	& Dus	1500.00	300.00			
250	.00 50.00 8	32.49%	300.00			
5.	Emeritus Scientist Scheme	e 400.00	40.0	0		
10.0	00 30.00 3	3.79%	40.00			
6.	Agricultural Edu. Media					
	Centre	700.00	100.00	50.00	50.00	-
	100.00					
7.	Support to Agril. Colleges	1000.00	50	.00		
0.00	0 50.00 Nil		0.00			
8.	Rural Awareness Work					
	Experience Programme	800.00	11	0.10		
0.00	0.00 Nil		100.00			
9.	One Time catch up grant	-		-		
0.00	0.00 Nil		1500.00			
10.	Assam Agril. Univ.	-		- 1500.0	00 -	-
	350.00					
2 12	26 The Committee noted	the under-utili	isationof fund	ls for each o	of the schem	nes mentioned

2.126 The Committee noted the under-utilisation of funds for each of the schemes mentioned above at SI.No. 1 to 5 and asked the Department to give reasons for the same. The Department intheir reply stated as under: The sanction for the IX. Plan scheme of the NAARM, Hyderabad has been issued during February 2000 and the academy is already processed with all the proposals in respect of the approved items. The allocated budgetary provision will be utilised during the current financial year.

The total amount allocated has been fully utilized in respectof scheme at SI.No.2 above. The total amount allocated has been fully utilized in respectof scheme at SI.No.3 above. The IX Plan outlay was of Rs.1500 lakh and the total budgetutilisation in the first 3 years of the Plan has been 82.49 per cent. There are 35 centres operating all over the country. EFC meetingfor Centres of Advanced Studies had agreed to the establishments of the 5 new Centres after recommendations for Quinquennial Review Teamfor Centres of Advanced Studies. During 1999-2000 these 5 new centreswere to be given Rs.40.00 lakh @ Rs.8.00 lakh per centres peryear.

The Quinquennial Review Team for Centres of Advanced Studieswas constituted in August, 1999 has visited all the 35 Centres and is shortlysubmitting its report. Therefore, Rs.40.00 lakh meant for these fivenew centres which were to be established during 1999-2000 could not beutilised which was one of the reasons of shortfall in the budget allocation. Another reason for the under utilisation of budget was delay of request for revalidation by some centres for unutilised budget of previousyears. (Sl.No.4 above).

The scheme of Emeritus Scientists was held in abeyance and hencethe allocated expenditure could not be utilised. The scheme has notbeen revived with the approval of the competent authority. (Sl.No.5 above).2.127 The Committee also sought details about Agricultural Education Media Centre and reasons for not utilising Rs.50.00 lakh out of an outlay of Rs.100.00 lakh by it during 1999-2000. The Department in their reply stated: The SFC documents for Agricultural Media Centre is yetto be approved. The Media Centre will be created only after the SFC is approved.

Five Agricultural Media Centres will be created at IARI, IVRI,CIFE, IIHR and NDRI and for infrastructure support would be provided through this scheme.2.128 When asked about the reasons for Nilutilisation of funds by the Schemes- Support to Agricultural Colleges and Rural Awareness Work Experience Programme as can be seenat Sl.No.7 & 8 above, the Department replied as under: Support to Agricultural Colleges, SFC document has been prepared and is pending approval. The scheme will be implemented once the allocation is approved. (Sl.No.7 above).

The SFC document have been approved for a total outlay of Rs.4.20crore to be made operational w.e.f. 2001-2002 (Sl.No.8 above).2.129 The Committee sought clarification from theDepartment regarding the One Time Catch up Grant mentionedat Sl.No.9 above and the difference between this one and the other one with same nomenclature towards which Rs.400.00 crore outlay has beenapproved for the IX plan by the Centre. The Departmentclarified: It is a part of same One Time CatchUp Grant for which Rs.400 crore outlay has been approved for 9th plan bythe centre.2.130 With regard to Assam Agricultural University(AAU) the Committee asked the Department the reasons for not makingany allocations in BE 1999-2000 and as to how Rs.1500.00 Lakh were provided at RE stage. The Department in their reply stated: Rs. 1500 lakh may be read as Rs.100 lakh whichwas provided to AAU out of the Development grants during 1999-2000. This university has been shown separately so as to make it a part of theNorth East region. Management and Information Services (MIS)

2.131 Under MIS, it has been categorically observed that there has been no mention of any scheme or project being run underthis sector. The Department has been giving only broad

sectoral allocationsmade to this Sector and name of the schemes and their respectives allocations/expenditure details are altogether missing from the Financial Statementsofthe Department which hampers the critical examination of Demands for Grantsof the Department.

2.132 However broad sectoral allocation/ expendituredetails for 1999-2000 and BE 2000-2001 are as under:

(Rs.

ın	lakh)	
111	anı,	

S.No.	Sector	IX Plan Outlay	BE 1999-2000	) BE	Shortfall
%Utilisation	BE 2000-2	2001			
				Actual	for 3 years
			I	Expenditure	of IX Plan.
1. Manag	ement &				
Informa	ation Services	12300.00	3235.00	1356.00	1879.00
63.34%	2555.00				
2. Pipelin	e Projects	1650.00	615.00	134.00	481.00

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2.133 The Committee noted the shortfall uptoRs.1879.00 lakh under MIS and Rs.481.00 lakh under its Pipeline Projects and asked the Department to give reasons for the same. The Department in their written reply stated: Due to reduction in Annual Plan allocation of the Departmentat RE level, the allocation made for Management and Information Services(MIS) was reduced from Rs.3235.00 lakhs to Rs.1276.00 lakh and for thepipeline projects from Rs.1650.00 lakhs to NIL. Thus, there has beennot any shortfall in expenditure under these two schemes under MIS including pipeline projects for the year 1999-2000.2.134 The Committee also asked the Department tofurnish financial details of all the schemes/ projects run under MIS and Pipeline Projects. And the Department gave the following information: The names of the schemes/ projects under MIS alongwiththe financial details of each scheme for the years 1999-2000 (BE) and 2000-2001(BE) are given below:

Budget Estimate 1999-

2000 Budget Estimaten (2000-2001

		(Rs. in lakhs)	(Rs. in lakhs)
1	Publicationand Information	150.00	150.00
2.	Civil Works	2700.00	500.00
3.	ICAR Agricultural Library	30.00	30.00
4.	Modernisation of Office Space		
	& Facility	60.00	80.00
5.	ICAR Headquarters	50.00	60.00
6.	Publicity and PublicRelations	30.00	30.00
7.	Support to ProfessionalSocieties		
	including NAAS	100.00	185.00
8.	Agricultural ScientistsRecruitment		
	Board	50.00	50.00
9.	Intellectual Property Rights	15.00	15.00

10.	DARE	50.00	60.00
11.	Pipeline Schemes	615.00	1405.00
	TotalMIS including pipeline schemes	3850.00	2555.00
	And DARE		

# World Bank Aided Project (WBAP)

# National Agriculture Technology Project (NATP)

2.135 The Project is reported to havemade major strides during the year 1998-99 heading steadily towards fullimplementation of the diverse activities of the project. The projectagreement and other legal documents were signed by the GOI and the World Bank on June 22, 1998 following approval of the Project bythe Board of Directors of World Bank in March, 1998. The Cabinet Committeeof Economic Affairs accorded its approval on the 12th November, 1998 and the loan became effective from November 19, 1998. The Launch Workshopfor the project was organised for the project on October 6, 1998 to sensitize the participating institutions about the NATP plans and programmes. On this occasion NATP Main Document was released and placed in public domain. The project has been approved for a total cost of US \$ 239.7 million ( equivalent to Rs.861.3 croresas per current exchange rate of August 1997 and now equivalent to almostRs.1013 crores as per current exchange rate). The WorldBank will contribute 82 per cent of the total cost (\$ 196.8 million) while the GOIs share will be 18% (\$ 42.9 million). The total Bank assistance will comprise SDR \$ 73.8 million equivalent to 96.8 million dollars as IBRD loan at the usual rate of interest, and US\$ 100 million as IDA credit. The project will operate for 5 years from 1998-99 to 2002-03. The NATP has three major components and the allocations approved by EFC for them are given below:(i) Agro-ecosystem Research 56.4% (Rs.440.00 crores)

(ii) Innovation in Technology Dissemination

18.9% (Rs.148.14 crores)

(iii) ICAR Organisation and Management System

24.7% (Rs.192.64 crores) The break-

up of total plan allocation of Rs.861.30 crores, plan allocation for 1998-99, IX & X Plan for the ICAR and the Department of Agriculture and Cooperation (DAC) is given below:

Five Year Plan Perio	od	ICAR		
Component	DAC	Total		
		(Rs. in crores)	(Rs. in crores)	
BE 1998-99		68.75	13.98	-
IX				
Plan		571.82	92.76	664.58
X				
Plan		165.11	31.61	196.7
2				
Total		736.93	124.37	86
1.30				

2.136 Under WBAPs, National Agricultural TechnologyProject (NATP) has been observed to have under-utilisation of funds as under :

(Rs. in lakh)

SI.No. Scheme IX Plan BE RE/

Shortfall %age BE

Outlay 1999-2000

Actual utilisation 2000-2001

Expenditure for 1st 3

years of

IX Plan

1. National Agricul-tural

Tech. Project 57182.00 11300.00 8900.00

2400.00 75.32% 13400.00

2.137 The Department was asked to give reasons for under-utilisation of funds by NATP upto Rs.2400.00 lakh during 1999-2000. The Department in their reply stated as under: The annual outlay (BE) approved for the year 1999-2000 respect of National Agricultural Technology Project (NATP) was Rs.113crores. Out of this there was a provision of Rs.33 crores for theInformation Systems Development (ISD). Out of this, only a sum ofRs.7.57 crore could be utilised. For the purchase of computers, peripherals, etc. an International Competitive Bidding process hasalready been initiated. Hence, the saving under this can beutilised only during next financial year. Taking this shortfall intoaccount, the RE has been finally fixed at Rs.89 crores whichwill be fully utilised.

The approval of the project by the Cabinet Committee on Economic Affairs was accorded in November 1998. Hence, theactual project implementation started only in November 1998. Further, formulation of the research proposals and their scrutiny withthe help of experts and their clearance through various committees likeScientific Advisory Panels (SAP), Research Programme Committee (RPC), Project Management Committee (PMC) etc. and issue of sanctions involved considerable amount of time. Quite often research proposals considered by the appropriate committees were to be returned for modification/revision in the best interest of work. However, this work has nowprogressed extremely well and commensurate funds released for each of the research projects. Further, the release of funds will increase considerably during the succeeding years.

#### **PART-II**

## OBSERVATIONS/RECOMMENDATIONS

# **Recommendation No.1**

Insufficient Ninth Plan Approved Outlay to DARE/ICAR

The Committee observe that the Department Agricultural Research and Education has been given an approved IX Planoutlay of Rs.2635.22 crores which includes Rs.400 crores as a one timecatch up grant for modernisation of Universities and Institutes of the ICAR and also for replacing outdated equipment with latest state-of-the-artequipment for carrying out its mandatory task of agricultural research. Further, the IXth Plan outlay of Rs.2635.22 crores also includes Rs.135.33 crores towards externally aided projects, thus, leaving only Rs.2100.00 crores as net Domestic Budgetary Support (DBS) for research and education activities of DARE/ICAR.

The Committee furthermore observe that scientists, economists and persons engaged in planning for the countryhave found that there are limits to increasing agricultural

productionthrough area expansion as the country has almost reached a plateau in sofar cultivable land is concerned. For example, the area under foodgrainshas more or less remained constant at around 125 million hectares since1970-71 which further gets reduced by 2 to 3 million hectares in some yearsdue to aberrant weather conditions, and abiotic/biotic stresses. The Government has announced the National Agenda in 1997-98 and hastargeted doubling the foodgrains production in the next tenyears. But instead of rapid growth in production and productivity,the country is witnessing an estimated foodgrains output of 199.1 milliontonnes in 1999-2000 which would be about 4 million tonnes lower than the preceding year output. Thus 3 years of the 10 years time hasalready elapsed and the countrys foodgrains production is fluctuatingin a narrow margin every year.

In the opinion of the Committee, the only solution achieve targetted rapid and desired foodgrains production comeswith genuine and timely research work by increasing productivity levels.

Keeping this in view, the Committee firmly believe thatthe only way of achieving and maintaining self-reliancy in food andfodder for this and future generations of human and fauna of the nation is by making sufficient and timely investment in R&D activities of Agricultural Sector.

The Committee also have been recommending year afteryear for raising the plan outlay for DARE/ICAR to the level of atleast 1% of Agricultural Gross Domestic Project (AGDP) for the IXth Plan of gradually increasing upto 2% of AGDP in future five year plansas have been happening in the agriculturally and economically developed countries of the world. However, to the utter dismay of the Committee the percentage share of Research is on the declining trendas a percentage of AGDP.

The Committee, therefore, once again strongly recommend for increasing the plan outlay for DARE/ICAR to the level of 1% of AGDP, to attain the objective of catching up with the productivity levels of the agriculturally and economically developed countries of the worldas well as to double the foodgrain production of the country in 10 years.

#### Recommendation No:2

Insufficient plan outlay for the year 1999-2000 to DARE/ICAR

The Committee observe that the Department of Agricultural Research and Education proposed an outlay of Rs.1082.59crores for the Annual Plan 2000-2001 and against this proposed projectionit has been allocated only Rs.629.55 crores which includes Rs.148.00 croresfor World Bank and Externally Aided Projects (EAPs) andRs.5.00 crores towards Mini Mission-I on Cotton Project, thus, leavingonly Rs.476.55 crores for Domestic Budgetary Support (DBS). In 1999-2000, the Department had proposed an outlay of Rs.712.68crores while it was granted only Rs.573.50 crores which was further reduced to Rs.504.00 crores at Revised Estimate Stage. And this arbitrary financial cut of Rs.69.50 crores at RE stage has adversely affected almost all the major plan-schemes as reported by the Departmentduring 1999-2000.

The Committee deplore this attitude of PlanningCommission and Ministry of Finance for imposing arbitrary financialcuts at Revised Estimate stage year after year which drastically curbsthe planned research activities of the Department which indirectly affects the agricultural output of the whole nation.

The Committee, therefore, are of the strongopinion that the Government is proving to be a hurdle in the concertedefforts for good research by the Department by including the externalaid component in the DBS and reflecting this figure as the Budgetary Support for the Department. The Committee therefore recommend that the Department should be provided at least Rs.1082.69 crores as requested by them for the year 2000-2001 and no cut should be imposed at RE stage. The Committee are also of the strong opinion that the Budgetary Support to the Department should not include the component of Externally Aided Projects and should be a pure Domestic Budgetary Supportas a percentage of Gross Agricultural Product.

## **Recommendation No: 3**

advised to spend less in the BE. At the

Need For Proper Planning by Centre in regard to Budgetary Allocationsto the Ministries

The Committee observe that a budgetary allocation called the Budget Estimate for the year is promised to be given to eachMinistry/Department. The Department after working out withthe Planning Commission detailing their schemes propose to spend the BEduring the year on these schemes which have been agreed to principally. The Committee note with concern that whereas,the Ministries/Departments get fully geared up for implementing variousschemes but in October suddenly they receive a rude shock when abruptlyhefty cuts are made and they are

Revised Estimate stage allocations are cut and all the schemeswhich were in the process of picking up momentum get fizzled out. The cuts are imposed by the Ministry of Finance without taking eitherthe Ministry or the Planning Commission or the Parliament into confidence.

The Committee observe that the Planning Commission, initially agreed principally to some of the new schemes of the Department and the Ministry/Department make provisions for them from its meagre budgetary allocations. Ultimately these newschemes, do not take off abinitio because they do not get the approval by the Planning Commission itself or thus some other authorities like EFC, SFC, CCEA etc. Thus the allocations to the schemesgo unutilized in anticipation.

The Committee are greatly perturbed over such a sorry stateof affairs in respect of scheme approval process by various concerned authorities. They desire that the projected Budgetary Allocations at the BudgetEstimate stage should be made more realistic, so that the Ministry can accordingly fix physical as well as financial targetsin a more practical manner. The Committee, therefore, recommend thatdue care should be taken by the Planning Commission, Ministry of Financeand other concerned authroities before making any cuts in the BudgetaryAllocation at the RE stage of the Department, which in the opinion of theCommittee puts spokes in the wheels of progress of the nation. Theyalso desire that the whole procedure prescribed for according post-budget approval for plan schemes should be thoroughly overhauled and simplified.

#### **Recommendation No.4**

One time Catch up Grant

The Committee note with disappointment that inspite of recommendations made by the Parliamentary Standing Committeeon Agriculture repeatedly year after year in their Reports for the release of a one time catch up Grant of Rs.500 crores during IXth plan, the Planning Commission has not been releasing any money against tis own committed allocation of Rs.400 crores towards this head for the IXth Plan.

The Committee also note that the Department had proposed an allocation of Rs.100.00 crores, Rs.200.00 crores and Rs.250.00 croresfor the year 1998-99, 1999-2000 and 2000-2001 respectively, but no moneywas provided.

The Committee has been informed that some institutes and universities of the Department are 30 to 40 years old and some of themare even 70 to 80 years old now. These institutes/universities badlyneed some funding for renovation of old infrastructure and replacement of obsolete equipments, and vital general utilities. The Committee are also informed that 49 ICAR institutes and 30 State Agricultural Universities and old Krishi Vigyan Kendras have been identified by the Department for such renovation during IX plan. The one time catch up grantis meant for these purposes.

The Committee are unhappy to point out thatthree vital years have already passed during the IXth plan but the Planning Commission and the Ministry of Finance have not provided even Rs.400.00 crores, which they had committed earlier towards this head during the IX Plan. Scientists cannot do justice to their research work with the decades old and obsolete research equipments and infrastructure. A conducive environment will lead to better results and less brain drain. The Committee feel, refusal of funds amounts to gross injustice and casual approach shown towards the presentand future agricultural scientists of the nation, who are struggling hardagainst all odds to find out ways and means to increase production and productivity of agricultural produces to feed billions of human beings t present and also for generations to come.

The Committee are also informed that due tolack of funds in some cases, and to meet this burning requirement, the Department had taken an administrative decision and asked the concerned old universities to utilise 20% and 30% of plan budget for theyear 1999-2000 and 2000-2001 respectively, towards approved items of one time catch up grant.

The Committee, appreciate the decisiontaken by the Department in this regard and hope that such action will setan example for other Departments to emulate. The Committee stronglyrecommend that at least Rs.250.00 crores should be provided to the Departmentfor the year 2000-2001 immediately; and remaining amount of Rs.250.00 croresshould be given during 2001-2002, so that these renovation activities andreplacement of obsolete equipments with latest state-of the-art equipments could be completed at the earliest.

# **Recommendation No.5**

10% Allocations for the Development of North-East.

The Committee noted that for the year 1997-98,1998-99 and 1999-2000 the Department failed to allocate minimum 10% oftotal plan allocations of the Department in favour of plan schemes/projectsmeant exclusively for the North-Eastern region as per the directive of the Government of India. The actual allocations were 7.19%,8.24% and 8.88% of the total allocations for the 1st three years of the 1Xth Plan respectively.

The Committee are happy to note that for the year2000-2001, Rs.63.00 crores which happens to be 10.01% of the total planallocations of Rs.629.55 crores for the Department, have been provided for the schemes meant for North-East and Sikkim. However, the Committeewould like to be apprised of the decision of the Government of allocating 10% of allocation to North East States based on Domestic Budgeting Support only and not on DBS + EAP basis.

The Committee are hopeful that Department would makeall out efforts to spend this 10% amount earmarked for the actual development of much neglected North-Eastern States and Sikkim. They also hopethat there would be no shortfall in achieving financial and physical targets fixed for the year 2000-2001, in this regard.

Furthermore, the Committee reiteratetheir earlier recommendation that all the schemes planned for North-EasternStates should be 100% funded by the Union Government

#### **Recommendation No.6**

Need to indicate capital requirement separately under the Capital Segment

The Committee while scrutinising the detailedDemand No.2 in respect of the Department of Agricultural Research and Educationobserve that entire Demands for Grants are divided under two majorsegments namely Revenue and Capital. Although, the Departmenthas been giving its Capital Component requirement for each scheme separatelyin their Annual Plan Document out of the total proposed plan outlay forthe relevant year, yet it never shows its capital component requirementseparately in the Detailed Demands for Grants as Capital Head, the entire demands are projected under Revenue Head. However, thisyears (2000-2001) Annual Plan is also void of the the Capital Expenditure. In this connection the Department explained that the exact capital component requirement for various schemes was in the processof finalisation and the same details would be available after some time.

In the opinion of the Committee in this fast communicationworld with Internet, E-Mail, Fax facilities available with the institutes of the Department the plea of the Department that their institutes are spread all over the country and it takes more time in assessing and collecting capital requirement for each institute is not tenable. Further, the Committee are not satisfied with the vague and misleading information that the DARE do not have specific requirements under Capital segment.

The Committee, therefore, recommend that the Department should regularly indicate their capital requirements separately for each Sector/Scheme in their Demand No.2 and in detailed Demands for Grants pertaining to the Department. The Committee further recommend that in order to enable the Committee to examine the Demands for Grants effectively the Annual Plan document should also contain the capital expenditure in the relevant column.

# **Recommendation No.7**

Sectoral Allocations for the year 2000-2001

The Committee observe that the IXth Plan WorkingGroup for DARE had recommended a certain percentage of allocation to be made out of the total plan allocations available with the Departmentfor year to year basis.

The Committee further observe that the percentageshare of major 7 sectors as proposed by the Working Group standsat (I) 15% for Agril. Education (ii) 10% for Agril. Extension, (iii) 6%for Fisheries, (iv) 14% for Animal Science (v) 10% for Horticulture, (vi)25% for Crop Science, and (viii) 20% for Natural Resource Management, Agricultural Engineering, Agricultural Economics & Statistics, ICARHeadquarters and P&I (Clubbed together). The percentageof sectoral allocations actually made by the Department for 2000-2001stands at (i) 14.69%; (ii) 12.59%; (iii) 6.09%; (iv) 12.38%;(v) 10.28%;(vi) 21.82%; (vii) 10.91% + 5.04 + 0.84 + 5.36 respectivelyi.e.; if clubbed together, it comes to 22.15%.

The Committee wish to point out that therehappens to be a variation in sectoral allocations. The Committee, therefore, advise the Department to adhere to the percentage of sectoral allocations as recommended by the IX Plan Working Group for DARE so that all the sectors get their ideal proportion of funds.

### **Recommendation No.8**

Pending Vigilance/Disciplinary cases

The Committee were informed that the Department is not having any independent vigilance cell or inquiry officers/ vigilanceofficers. Only one part time CVO; part-time Director with additional charges with some staff and that too from out of the regular staff hasbeen looking after the Vigilance/Disciplinary cases with no separate setup meant for this purpose.

The Committee observe that at present 19 vigilance cases and 29 disciplinary cases are pending with the Department. Though, some cases might get disposed of during the year, yet some newcases get added to the list of pending cases every year. So, it happens to be continuous process of handling vigilance/disciplinarycases in the Department with a vast set up across the country.

The Committee further observe that the Departmentpursued the matter of getting a post of a Director (Vigilance) sanctionedas per the earlier recommendation of the Parliamentary Committeebut due to ban on creation of new posts, the Ministry of Financehas not acceded to the proposal. The Department has moved thecase for upgradation of one of their lower posts.

The Committee are of the view that the Department in need of specialists in the field of Vigilance/Disciplinaryproceedings. This is a technical subject and requires just like a scientist on genetics cannot function as a scientistin agricultural engineering. The Committee therefore, recommend that an independent cell constituting of law graduates headed by a Director (Vigilance) should be created in the Department for speedy finalisation of pending vigilance/disciplinary cases within a reasonable time frame of 2 to 3 years.

#### **Recommendation No:9**

Separate Budget Heads for Crop Science and other programmesunder Crop Husbandry

The Committee had recommended intheir 10th Report (1996-97) that the Budget Head for
Crop Husbandryshould be suitably modified so that the allocations to other sectors such as Crop
Science, Horticulture etc. are properly reflected inthe detailed Demands for Grants so that there
remains no ambiguityin the actual allocations made to each sector.

The Committee were informed that the Departmentapproached the Ministry of Finance during April 1997 which in turn hasnot cleared the proposal giving the remarks to seek CGAs approval to change the standard nomenclature of heads prescribed byhim before approaching Ministry of Finance for issuing corrections in the Detailed Demand of the Department. Consequently, the CGA wasapproached in November, 1997, but till date the matter is pending with him.

The Committee, therefore, strongly recommend that the Department should vigorously follow up the case with CGA and convince him about the need for separate and clear budget heads withdesirable clarity, to be brought in the Demands for Grants of the Department in the light of the recommendation of the Committee and apprise the Committee of the positive outcome in the matter within three months from the date of presentation of this Report to the House.

#### Recommendation No: 10

World Bank Aided National Agricultural Technology Project (NATP)

The Committee are informed that The National Agricultural Technology Project (NATP) costing Rs.861.30 crores (US \$ 239.2 million) is a World Bank Aided Project for five years starting from April/ June 1998. 18 percent is the share to be borneby the Indian Government whereas 82% will be reimbursed. 100 Million Dollars is World Bank credit with a grace period of 10 years. There is no interest on it.

On a recommendation of the Committee on Demandsfor Grants 1998-99 requesting the Department to speed up the paceof the project, the Department had stated that the process of invitingcompetitive bids had already been initiated in consultation with the WorldBank. Further action for appointing procurement agent and trainingagent is was progress. In the process of examination of Demandsfor Grants for (2000-2001) the Department has informed thatan International Competitive Bidding process has already been initiated for the purchase of computers, peripherals etc.

The Committee are further informed that the Department has made an allocation of Rs.148 crores for 2000-2001 from its Budgetary Support of Rs.629.15 crores.

The Committee are very much concerned about the timely completion of the prestigious project as two yearshave already passed and important systems are not in place. The project has a term of 5 years. The Committee are afraid that if the project is not completed within 5 years, the World Bank whichis giving 82% interest free finance, may not give any extension of time. The project, then will have to face the fate similar to other uncompleted projects. The Committee, therefore, urgeupon the Department to implement the project with greater earnestness and sincerity. They should fix targets and stick to them by the strength of strict monitoring and supervision. Penal action may be considered for erring partners. The Committee also request the Government reconsider their decision to make the EAP component a part of DBS and give the Department Rs.167.00 crores as an additional allocation for 2000-2001.

#### **Recommendation No: 11**

Krishi Vigyan Kendras for North-Eastern States

The Committee have been informed thatthe Department has prepared a proposal for setting up of 25KVKs for the North-Eastern Region, by utilizing the fundsavailable in the non-lapsable Central Pool which could not be spent forNorth Eastern Region. A KVK requires at least sixteen (16) officials at various stages, a sizeable measure of land and equipment i.e.a lot of funds. KVKs are 100% funded by ICAR.

Looking into the difficult geographical and political situation in the North East the Committee feel that it will be atough task for individuals to run a KVK.

The Committee therefore, recommend that the ICARshould preferably sanction KVKs to potential NGOs of the regionafter having fully satisfied itself that the money will be used for the development of the KVK. The Committee are of the opinion thata lot of insurgency in the region is because of unemployment of youths. KVKs is a good method of keeping them busy and simultaneously bringdevelopment in the region. However, individuals may not be good choice for running KVKs. The Committee also feel thatthe proposal of the Department to utilize funds available in thenon-lapsable Central Pool is a very good proposal and urge upon the

Government to make these funds available even then to the Department. However, the Committee stress that if such funds are not available the setting upof KVKs should not be stopped.

#### Recommendation No. 12

Upgrading the Paddy Processing Centre Thanjavur

The paddy processing centre at Thanjavur is the onlycentre which is directly under the control of the Department. ThisCentre is mandated to concentrate on paddy processing and research. The Committee are informed that seed technology and research and seed technologyand processing form a part of mandate of the Indian Council of AgriculturalResearch rather than Department of food processing. Thus the Committeefeel that this centre can perform the dual function of being a researchcentre for the region and also disseminate the research information to the farmers by performing the functions of a Krishi Vigyan Kendraalso.

The Committee, therefore, recommend that the Department should consider upgrading the Institute into a Researchcum Educational Institute for the region.

# **Recommendation No : 13**Sugarcane Cess for ICAR

The Committee have been informed that underthe Sugar Cess Act, 1982, a cess of Rs.14/- per quintal is beingcollected on all sugar produced by the sugar factories in India. As provided under the Sugar Development Fund Act, 1982, the cess fund is allocated to Ministry of Food, Government of India which is beingutilised for rehabilitation and modernisation of sugar factories; development scheme of sugarcane; research projects aimed at development of sugar industry and building up and maintenance of buffer stock. Indian Council of Agricultural Research does not get any share inSugar Cess fund though researches of the ICAR in raising sugarcane production are reflected in overall increase in the national sugar production.

The Committee feel that the nation todayis able to attain self-sufficiency in sugar only because of the tremendouswork being done in the field of research on sugarcane. Sincethe sugar industry is benefited from the research back up for improving productivity, production and stability, it should get a major share of sugar cess funds.

The Committee recommend that the Sugar Development Fund Act, 1982, should be amended and a provision made for allocating least 75% of the cess fund at the disposal of ICAR for strengthening research on sugarcane.

#### **RECOMMENDATION NO:14**

Funds for Central Agricultural University Imphal (Manipur)

The Committee have been informed that the Central AgriculturalUniversity (CAU) Imphal has been established by an Act of Parliamentin 1993 for developing human resources in agriculture and allied sciencesfor North-Eastern Region. This university is 100% funded by ICAR. An allocation of Rs.52.00 crores has been provided for the IXth plan.

The Committee are of the opinion that any university, be it an Agricultural or non- Agricultural is an asset to the Nationand the State. This university which provides B.Sc(Agri), B.V.Scand Animal Husbandry from Mizoram and B.I.Sc from Tirpura caters to theneed of the seven sister States of North East. The burden of thefunctioning of the University should not be entirely borne by the ICARfrom its budgetary allocations but a share of it should also be borne from the non-lapsable funds lying idle with the States. TheCommittee also feel that the University Grants Commission

should also beaddressed to render necessary help for smooth functioning of the University.

#### **Recommendation No.15**

# AICRP for Bamboos

The Committee are informed that there is acertain variety of bamboo whose shoot is a delicacy in theNorth-East and is available in its vast areas and in large quantities. However, there are certain varieties of bamboos available in Chinawhich are fully edible bamboos. The local shoots are used by inhabitantsfor making soups, pickles and so on.

The Committee are of the opinion that, if researchis done in this field and the China variety of bamboo is developed in India, it will be a good source of employment for the tribals, besides being asource of food. The Committee also feel that processed bamboowill be a good export product. The Committee, therefore, recommend that an All India CoordinatedResearch Project may be initiated by the Department in the North EasternStates which may carry out a detailed research programme inthat direction.

<sup>\*</sup> The Major Head 2552 has been incorporated in Demand No.2 of the ExpenditureBudget Vol. I, M/o. Finance from BE(2000-2001).