



SEVENTH CONVOCATION

JUNE 4, 2010

REPORT



Prof. Dharmeswar Das

Joint Director (Academic) cum Dean

Hon'ble Shri Sharad Pawar Ji, Minister for Agriculture, Cooperation and Public Distribution, Govt. of India, Dr. Ayyappan, Secretary, DARE and Director General, ICAR, respected Dr. K.M.L. Pathak, Deputy Director General (AS), Dr. Arvind Kumar, Deputy Director General (Edu), ICAR, Dr. M.C. Sharma, Director and Vice chancellor, IVRI, esteemed members of the Board of Management and Academic Council, Joint Directors, Heads of the Divisions and Section incharges, faculty members and scientists, officers and employees of Indian Veterinary Research Institute Deemed University, distinguished guests and invitees, retired officers and personnel of IVRI, members of Press, All India Radio and Doordarshan and other electronic media, alumni of IVRI, recipients of degrees and awards, students, staff, ladies and gentlemen.

It is a matter of great pleasure to extend you all a very warm and cordial welcome on the auspicious occasion of the seventh convocation of the Deemed University Indian Veterinary Research Institute. The convocation is undoubtedly an assembly of academicians and scholars committed to the cause of education. It is matter of great honour to us that a distinguish leader and promoter of social development and agriculture, Shri Sharad Pawar Ji accepted our invitation to be the Chief Guest and deliver the VII Convocation

Address in spite of his busy schedule. On behalf of the faculty and students of the institute I join along with our Director to welcome you sir and we feel privileged to be able to receive your guidance in further strengthening our activities for upliftment of the socioeconomic status of our rural mass and boost the Indian economy.

Today on this momentous occasion, I on behalf of the IVRI fraternity express our sincere gratitude to Dr. Ayyappan, Secretary, DARE and Director General, ICAR for his kind presence who has been always with us as a guiding force in support to this institute. Our teaching and training programmes are always linked with Animal Science, and Education Division of ICAR and we are extremely thankful to Dr. K.M.L. Pathak, Deputy Director General (AS) and Dr. Arvind Kumar, Deputy Director General (Edu) for their gracious presence on this occasion.

Indian Veterinary Research Institute is the citadel of learning and scholarship and also of creation, preservation and transformation of knowledge not only in the field of veterinary science but also other related fields of social and economic development. A total of 243 M.V.Sc and 146 Ph.D students will be receiving their degrees in the ensuing 7th convocation to further contribute towards this endeavour.

History and Development of the Deemed University IVRI

The Indian Veterinary Research Institute (IVRI) was initially founded as the Imperial Bacteriological Laboratory on 9th December in 1889 at Pune for conducting research for the protection of Indian livestock health from the dreaded diseases. The Pune laboratory was shifted in 1893 to Mukteswar in Kumaon hills of the Himalayas. Three renowned bacteriologists, Doctors Robert Koch, Pfeiffer and Gaffky visited Mukteswar in 1879. The mother Institute then known as the Imperial Institute of Veterinary Research was renamed as Imperial Veterinary Research Institute in 1936. At the dawn of

independence of the country on 15 August 1947, the name of the Institute was changed as Indian Veterinary Research Institute. University Grant Commission of India under Section 3 of UGC Act 1956 conferred the Deemed to be University status to IVRI in 1983 and was made effective from 15 January, 1985 by ICAR. The high powered review committee of the UGC has reviewed the progress of the university in January, 2010 and submitted their report with its appreciation on the commendable work done and service rendered by the university and recommended for its further upliftment.

The first convocation of IVRI Deemed University was held on 22nd October 1990 and a special convocation was held on 9th December 1990 on the concluding day of the centennial year of the Institute. Honourable President of India, Shri R. Venkataraman graced the occasion. With the passage of time, the Institute made rapid strides and achieved all-round progress leading to award of the prestigious Sardar Patel Outstanding ICAR Best Institution Award 2001. A High Security Animal Disease Laboratory (HSADL) with high-tech biocontainment facility was established at Bhopal in the year 1985 to undertake research on emerging and exotic diseases. The Centres of Advanced Studies, now named as Centre for Advanced Faculty Training on Animal Nutrition and Animal Physiology were established in the year 1995. Subsequently a Centre of Excellence in Human Resource Development in Veterinary Biotechnology was sanctioned under National Agricultural Technology Project in 1999. The ICAR has accredited the IVRI deemed university in 2004.

Mission and Vision of the Deemed University

Mission

Undertaking pioneering research in veterinary and animal sciences with holistic approach, promoting high quality education and training, developing systems and technologies for better animal

health care and production and their transfer to end users, functioning as an effective instrument for nutritional security, poverty alleviation and rural construction.

Vision

Striving for excellence in innovative research, human resource development, technology generation and transfer for improved animal health, productivity responding to the needs of animal owners and lovers with acknowledged leadership among the World nations.

The vision statement identifies the key strategic issues *viz.*, to be a world class institution of academic excellence for promoting high quality education and training, developing systems and technologies for better animal health care and production and their transfer to end-users, functioning as an effective instrument of nutritional security, poverty alleviation and rural reconstruction.

Objectives of the Deemed University as laid down in MOA

The objectives of the deemed university are-

1. To impart Post-graduate education at Master's and Doctorate levels in different branches of Veterinary Science and Animal Husbandry.
2. To update the knowledge of field veterinarians, engaged in Veterinary and Animal husbandry activities to boost up rural economy, through short training programmes.
3. To prepare veterinary scientists for significant leadership and service in an inter-dependent and multi-cultural world.
4. To impart extension training in basic, supporting and allied disciplines, and
5. To develop and disseminate modern technological know how for increased animal production.

Strategies for accomplishing the objectives

The goals and the objectives of the Deemed University are being accomplished by adopting the following strategies:

- By providing students with required skills and expose them to new frontiers of knowledge to build professional competence, enhance self-confidence and instill managerial abilities in them.
- By reorienting veterinary and animal science post-graduate education to meet the challenges of sustainable animal production sector.
- By providing post-graduate programmes and courses in the newer frontier areas like Biotechnology, Biochemistry, Genomics, Immunology, Stem cell research, Nanotechnology etc.
- By initiating new programmes leading to Masters' and doctoral degrees in several social sciences sector disciplines.
- By conducting post-graduate and doctoral research in different disciplines in consonance with the on-going scientific pursuits of national priority being pursued at the Institute.
- By establishing separate Board of Studies for each discipline to effectively manage various programmes and to provide a forum to cater to the specific needs of the postgraduate students.
- By revising curriculum and syllabus to incorporate emerging areas in different disciplines at regular interval.
- By achieving computer networking, patent and trade literacy introducing new courses on these.
- By strengthening the veterinary and animal service centres, Polyclinics, ATIC, KVK etc. for the faster dissemination of technologies and to develop skilled manpower required in this sector.

- By Building strong academic centres of international reputation and attract foreign students in veterinary and animal sciences.

Governance

The deemed to be university status conferred by U.G.C. vests powers with the Deemed University of IVRI to institute post-graduate degrees, diplomas and other academic distinctions. The university is empowered to award fellowships, scholarships, medals, and prizes besides other distinctions. The university is also authorized to make provision for dissemination of the findings of PG research and technical information through veterinary extension programmes, patenting and commercialization.

The Institute is a constituent unit of the Indian Council of Agricultural Research, which is a Society registered under the Societies Registration Act (Act XXI of 1860). The Director is the principal executive officer of the Institute. The Joint Director (Academic) cum Dean is responsible for the overall supervision of the programme of post-graduate education and research and training at the Institute. The Board of Management, Academic Council and Board of studies, which are statutory authorities of the university, oversee the educational programmes of the university. With conferment of the “Deemed to be University status”, the institute has five main bodies, which are responsible for broad policy matters and decision-making in the fields of research, education and training, extension education and administration. This constitution provides the authorities of the DU viz., Board of Management, Executive Council, Research Council, Extension Council and Academic Council. Besides these, the statutory standing Committees of the DU are Standing Committees on Courses, Curricula and Academic Affairs, Standing Committee on Faculty, Student’s Problems and Discipline, Standing Committee on Scholarships, Financial Assistance and

Academic Progress, Standing Committee on Students' Welfare Board and Residence, Standing Committee on Inter-Disciplinary Facilities and Instructions, Standing Committee on Equivalence for Degree/ Courses and Standing Committee on Matters Related to P.G. Faculty.

ACADEMIC PROGRAMMES AND CURRICULA

Training and Education

Training programmes were organized in the institute as early as 1900 for army and civil veterinarians on the general principles of therapeutics, and to civil and army personnel in comparative pathology, bacteriology and microbiology. These were later replaced by a number of Refreshers' courses for personnel in the veterinary profession. Regular post-graduate and Refreshers' courses were organized from 1922 and the institute started awarding Diploma for the Associateship of IVRI in 1943 as a part of post-graduate teaching programme leading to establishment of a P.G. College in 1958. In the beginning, it was affiliated to the Agra University and subsequently to Rohilkhand University. The Institute now offers Master's degree programme in 22 disciplines and Ph.D programme in 19 disciplines. Highly specialized short-term national and international courses, summer/winter institutes and vocational courses are conducted from time to time in different disciplines to upgrade the skill, knowledge and efficiency of the scientists, faculty and field veterinarians from ICAR, AUs/VUs, state Development Departments etc. National P.G. Diploma Courses of ten months duration each are imparted in 10 disciplines.

HRD Programmes

Doctoral Programmes leading to award of Ph.D. degree are offered in the disciplines of Animal Biotechnology, Animal Genetics and Breeding, Animal Nutrition, Veterinary Physiology, Animal Biochemistry, Animal Biotechnology, Livestock Production &

Management, Livestock Products Technology, Poultry Science, Veterinary Extension Education, Veterinary Bacteriology, Veterinary Gynaecology & Obstetrics, Veterinary Immunology, Veterinary Medicine, Veterinary Parasitology, Veterinary Pathology (including Avian Diseases), Veterinary Pharmacology, Veterinary Public Health, Veterinary Surgery, and Veterinary Virology.

Masters' Programmes leading to award of M.V.Sc. degree are offered in Animal Genetics and Breeding, Animal Nutrition, Veterinary Physiology, Animal Biochemistry, Animal Biotechnology, Livestock Production and Management, Livestock Products Technology, Poultry Science, Veterinary Epidemiology, Veterinary Extension Education, Veterinary Bacteriology, Veterinary Gynaecology and Obstetrics, Veterinary Immunology, Veterinary Medicine, Veterinary Parasitology, Veterinary Pathology (including Avian Diseases), Veterinary Pharmacology, Veterinary Public Health, Veterinary Surgery and Radiology, and Veterinary Virology, Bio-Statistics, Livestock Economics.

National P.G. Diploma courses are offered in Veterinary Preventive Medicine, Animal Husbandry, Veterinary Biological Products, Animal Reproduction, Poultry Husbandry, Equine Husbandry, Medicine & Surgery, Zoo and Wild Animal Health Care & Management, Meat and Meat Products Technology, and Fodder and Feed Technology, and Animal Welfare.

Short-term specialized training courses to the professionals, sponsored by AUs, VUs, DBT, ICAR, S&T, State Governments, industrial houses etc. and vocational training to farmers is a regular feature besides the summer/winter schools sponsored by the ICAR. International training courses on advanced areas are conducted exclusively for the foreign participants at IVRI regularly.

Admissions take place through five separate approaches viz., (i) open competition (ii) foreign students, (iii) In service candidates of

AUs/VUs for faculty up gradation, (iv) Department candidates of IVRI, (v) ICAR in-service nominees. The university follows an external evaluation system.

FACULTY

The faculty of the Deemed University is mainly constituted of scientists of the Institute in Agricultural Research Service (ARS) of various grades. Recruitment takes place through Agricultural Scientists Recruitment Board (ASRB). Career development plan including competence improvement exists for the faculty members. All most all the faculty members are PhDs and have tremendous exposure nationally and internationally.

STUDENTS

The University attracts the top rankers of the combined examination for admission and award of ICAR Junior Research Fellowship conducted by the ICAR for Masters' degree programme. There is even a higher recognition for admission in to Ph.D. programmes at the university through a national level competitive examination followed by an interview conducted by the deemed university.

The institute is attracting students from countries abroad, especially from SAARC and other developing countries. Scholars have also been deputed to this institute from different other countries for various short and long-term training programmes, diploma and degree courses.

A student counseling and Placement Cell, and Alumni Association exist in the university. The University has an impressive track record of placement in highly competitive professions both within and outside the country. The employment status of the students passed out in different courses is 100 percent. The university encourages extra-curricular activities that enrich cultural, physical

and social life of students. Facilities for indoor and outdoor games exist at the university. Many students have brought laurels to the university by receiving prestigious awards and prizes from the events organized by the ICAR and others from time to time.

LIBRARY AD OTHER LEARNING SERVICES

The facilities of Microfilming, CD-Net system, Internet access, CD-ROM search facilities and Current contents on diskette with abstracts are extended to all the library users by the National Library of Veterinary science of the University. The CD-ROM facilities are also available to students, scientists, teachers and professionals of other colleges, universities, institutions of the country and abroad. Integrated library management system has been installed for computerization of library activities. A database of theses available in the NLVS has already been created. LIBSYS software is used for subscription of journals from the year of 1997 and the holding status of the journals from the year 1997 is available on computer system of the library. Besides this, in-house bibliographic databases on P.G. Theses, Foot & Mouth Disease, Embryo Transfer Technology, Genetics of Disease Resistance, Rumen Microbiology, Lignin Biotechnology, Plasmids and Recombinant DNA Technology, Yak, Sheep, Lungworm, IVRI publications and Books of Archives Section in NLVS are available for consultation which were earlier created at Bioinformatics Centre of the Institute, and now transferred to the computers at NLVS. Presently 55,377 numbers of books are available along with subscription of 101 Indian and 125 foreign journals besides the e-Journals.

The Communication Centre provides central facilities for photography, art, reprography, printing and publication besides information and media coverage. The Centre is responsible for publication of institute's print material including PG theses abstracts,

annual reports, newsletters, bulletins, pamphlets, monographs, souvenirs, manuals, extension leaflets, brochures, etc.

Information services

The Website with the URL <http://www.ivri.nic.in>, launched on NIC server was self-designed and an in-house activity and provides wealth of information about the activities including research and education at the Deemed University.

PHYSICAL FACILITIES

The institute has 4 campuses viz. Izatnagar (Uttar Pradesh), Bangalore (Karnataka), Mukteswar (Uttaranchal) and Bhopal (Madhya Pradesh) and two Regional Stations at Kolkata (West Bengal) and Palampur (Himachal Pradesh). The Institute functions through 22 research divisions with 450 acres of livestock-cum-agricultural farm, well organized services and central facilities including a modern computer centre, communication centre, information system centre, student hostels, ZTMC and IPR cell and National Library of Veterinary Sciences. The Joint Directorate of Research use to manage the research projects of the institute received from various agencies of the country and abroad. The Joint Directorate of Extension Education with the participation of Extension Education Division, ATIC and Krishi Vigyan Kendra organizes technology transfer activities. A Centre for Animal Disease Research and Diagnosis (CADRAD) at the institute acts as a national referral laboratory under a Joint Directorate for disease diagnosis, monitoring and surveillance of animal diseases in the country.

All the Research Divisions and Sections are well equipped with modern laboratories and classroom facilities. In addition, centralized instrumentation facilities (CIF) have also been created to cater to the need of advanced research in different fields. There is a separate nuclear research laboratory having beta and gamma counters for

conducting research using the radioisotopes and a gamma chamber facility for irradiation of biological material. Respiration colorimetry and psychometric chamber at Division of Physiology and Climatology are the only facilities of the kind available in the country.

Hostel facilities are available for boys and girls, trainees including boarding facilities. The institute encourages extra-curricular activities that enrich cultural, physical and social life of students. Spacious playgrounds are provided along with facilities of some indoor games. Banking with ATM counter facility and Post Office are available. Service sections like Farm Machinery and Power, Feed Technology, Engineering, Medical Hospital, Estate, Horticulture, Hindi Implementation Cell and Security provide constant support to the university functioning.

ACHIEVEMENTS

Some of the achievements of the Deemed University are:

- (1) The IVRI Deemed University successfully completed the accreditation process conducted by the Accreditation Board of ICAR in April 2004 for the grant of accreditation to ensure quality education.
- (2) Introduction of new courses particularly on skill and entrepreneurship development and information and communication technology.
- (3) Interdisciplinary and holistic learning for sustainable development embedded in the whole curriculum. Critical thinking and problem solving teaching leading to confidence in addressing the dilemmas and challenges of sustainable development.
- (4) Common entrance test for reducing inbreeding.
- (5) Scholarships and fellowships to attract meritorious students.

- (6) Best teacher awards to cultivate excellence in teaching.
- (7) Capacity building for faculty improvement.
- (8) Renovation, development and modernization of laboratories, instructional farms, class rooms and libraries.
- (9) Setting up of education technology laboratories.
- (10) Manpower needs assessment/placement cell.
- (11) The new Academic Regulations (Revised) of the Deemed to be University were compiled, notified and published.
- (12) Helped in removing some inconsistencies in educational norms and standards necessary to sustain uniformly high quality of education.
- (13) The IVRI Deemed to be university continues to be a member of International Association of Universities (IAU), Indian Agricultural Universities Association (IAUA) and Indian University Association (IUA).
- (14) The scholars and faculty of the Deemed University have won several National and International awards and recognitions. For faculty up gradation, scientists received advanced training from UK, USA, Australia etc. under FAO/UNDP, TOMBIT, UK and World Bank assisted projects on AHRD, DBT, NAIP etc.

FUTURE GROWTH PLAN OF THE DEEMED UNIVERSITY

The followings are some of the future goals of the university:

1. Curriculum development, reorientation of teaching methodologies and course curricula.
2. Instruction design and development.
3. Computer and ICT based instructions.
4. Multi-media modules for instructions.

5. Library information system and Database Management of bio-resources.
6. Interaction with industry.
7. Developing and using new learning resources to enhance quality of teaching, education and research.
8. In-service training on emerging new and advanced areas.
9. Faculty exchange.
10. Post-doctoral programmes.
11. Workshops and brain storming for advancement of knowledge.
12. Consultancy.
13. Public-private sector partnership, industry-academia interface workshops.
14. Strengthening select niche areas of cutting edge technologies towards global competitiveness.

With the rapid change in technology environment, there is demand for developing graduates to harness science and technology. This calls for new courses as per changing market demand and new mode of delivery with effective use of electronic media. Efforts are being made to develop and modernize need based course curricula and methods of delivery i.e., moving from teaching to learning. This would bring about substantial improvement in the tools and techniques of imparting education in that teacher and taught are more interactive and learning is for up scaling the skills in real life situations. Human Resources and Institutional Capacity-Building (Cross cutting areas) are envisaged to develop on the areas and emerging technologies in the Deemed University.

Linkage and Coordination

For effective implementation of the identified programmes, linkages with national and international R&D institutions on one hand,

and with the beneficiaries/farmers/industries through collaborative research, consultancy, contract research and contract service, training, extension activities etc. on the other are essential and have been incorporated in the perspective plan.

CHALLENGES AHEAD IN HUMAN RESOURCE DEVELOPMENT

Animal Husbandry Sector being an important contributor to agricultural GDP, it has to play an important role to meet the mounting challenges in the new era of liberalization. With growing emphasis on animal husbandry sector, the gap between demand and supply for veterinarians in the country will widen further. Veterinary professionals working in the field too require regular updating of knowledge in specialized areas viz., diagnostics, treatment, micro-management, emergency disease management etc. which would only come with post-graduation and continuing education programmes. It is, therefore, very pertinent that HRD continues to be a major component of the institute's activities during the XI Plan period and beyond. Strengthening and development of veterinary and animal science education will be undertaken to make the veterinary higher education more relevant to the needs of the country and the profession through Centres of Advance Training, professional chairs, infrastructure up-gradation, faculty competence building, accreditation and scholarships to students and their practical training in laboratory and real life field situations.

To meet the growing challenges and competence building, the HRD programmes need reorganization considering the areas of Manpower planning and improving HRD competence and synergy with post GATT requirements and Professional efficiency programmes. Efforts are being made to introduce a P.G. degree programme on Livestock and Veterinary Business Management. For improvement of training programmes, the areas to be strengthened

are Interdisciplinary teaching, collaborative PG research, Training of the trainers and enlarging the scope of inter-institutional collaboration for the PG programmes with premier teaching and research Institutions in the country and abroad.

In the whole process of above mentioned activities the expected outcomes/deliverables will be enhanced quality of veterinary and animal science education, research and extension education and up-liftment in agrarian sector, internationally competitive livestock farming and production, quality improvement in livestock-products and services, faculty improvement with more social responsiveness on issues such as environment, equity, poverty alleviation, etc. and overall capacity building on NARS by improving efficiency and effectiveness of education system.

On this auspicious occasion, I would like to place on record the valuable guidance and advice received from the ICAR HQs, Director of the institute, Board of Management and Academic Council of the deemed university. The help and assistance received from all the faculty members, scientists, Scientific coordinator, Registrar, Deputy Registrar of the DU, members of various standing committees, Board of studies, Chief Hostel Warden and hostel wardens, in charges of various sections of the university dealing with students' affairs, staff and students community of the university are duly acknowledged and that remained a great strength for me. I hope the collective effort will help us in making further progress in the endeavour. I congratulate all the degree and award recipients in this convocation and wish all the best to them and hope that they will shine in their life and work and serve our motherland.

Prof. Dharmeswar Das