

# Chapter - 1

## INTRODUCTION

The roots of this great institution 'Anand Agricultural University (AAU)' were nurtured by Sardar Vallabhbhai Patel and Kanaiyalal Munshi in the year 1938 to embolden modern scientific agriculture including animal husbandry in the Charotar region of central Gujarat. By the time, India got independence, the Institute of Agriculture, the progenitor of AAU, had already made its presence felt at the national level by some pioneering work on agricultural education, animal nutrition and animal husbandry practices. Establishment of colleges such as B.A. College of Agriculture, S.M.C. College of Dairy Science and College of Veterinary Science & A.H. respectively in 1947, 1961 and 1964, along with various research centres gave the right impetus to the growth of higher agricultural education and research. Apart from creating important human resource, much needed immediately after the independence, the research centres like Bidi Tobacco Research Station (ICAR), Ford Foundation Project on Reproductive Biology, Regional Animal Nutrition Station etc. brought laurels. Pioneering research in Micronutrients, Agroecology and Biological Control and education in Agrometeorology are credited to the Institute. Regional Extension Education Institute formed a much needed bridge between the scientists and farmers during the earlier years, thereby rejuvenating the constructive efforts to solve the actual problems of the farmers based on their feedback.

The institute with its great heritage, work culture and reputation merged with the Gujarat Agricultural University (GAU) in 1972. GAU was a multi-campus University taking care of the entire state, including the Anand campus for the Central Gujarat region. During the period of 1972 to 2004, GAU progressed with great strides adding many infrastructural facilities as well as educational and research programmes. This period marked a close

liaison with the State Government and ICAR, which resulted in getting a number of research projects in the fields of Agriculture, Horticulture, Veterinary Science, Animal Husbandry and Dairy Science. This not only augmented the capabilities of the institution in providing holistic approach for higher agricultural education but also contributed in increasing agricultural production at the State level thereby addressing the farmers' welfare.

As a part of well thought strategy of the State Government for focusing on region specific needs and demands for agricultural research and education, AAU was carved out from the erstwhile GAU for central Gujarat region along with three other SAUs for other regions of the State. This resulted in greater autonomy for regional agriculture development, and as it had inherited such a well-developed infrastructure with vibrant activities, AAU used this strength as a force multiplier to enlarge its vision, adding momentum to its efforts in fulfilling its mandate. Established almost at the beginning of new millennium (2004), AAU began its journey with realization of challenges to agriculture in 21<sup>st</sup> century, making it more committed and dedicated to contribute still better with the strong foundation and experience it has. Thus, Anand Agricultural University came into existence with effect from 01-5-2004 by enactment of Gujarat Agricultural Universities Act, 2004 (Gujarat Act, No.5 of 2004).

The main campus of University is spread over an area of 284.23 ha. and has approximately 625.83 ha. of land at different regional stations, research substations and KVKs located under four different Agro-Climatic Zones (Zone III, IV, V & VIII) of the State. At present, the university has 9 degree colleges and one PG institute, 5 polytechnic colleges, 25 on campus and 23 off campus research stations spread over nine districts viz., Ahmedabad, Anand, Botad, Chhotaudepur, Dahod, Kheda, Mahisagar,

Panchmahal and Vadodara comprising nearly 17.88% (3.51m ha) area of Gujarat State.

The headquarter of University is Anand, Milk City famous for the Amul Dairy located in the agro-climatic zone-III. It is on the Ahmedabad-Mumbai railway line, 65 km from Ahmedabad and 40 km from Vadodara railway station and is connected by express highway on Golden quadrilateral. The city is located at 22.56°N Latitude and 72.95°E Longitude.

Considering the strengths acquired by AAU and opportunities looming large for further achievements and progress, the University is rightly set not only to continue its ongoing success stories, but is also positioned rightly to usher in the next phase of excellence and contribution for agriculturally prosperous Gujarat and India.

### 1.1 Vision

Agriculturally Prosperous Gujarat and India

### 1.2 Mission

The mission of the Anand Agricultural University is to provide teaching, research and extension education services related to Agriculture, Dairy, Veterinary and allied sciences including newer sciences like Agricultural Information Technology, Agricultural Engineering Technology, Food Processing Technology, Agricultural Business Management, Horticulture etc. and thereby develop excellent human resource and innovative technologies to serve the farming community with the motto of making Gujarat and India agriculturally prosperous.

### 1.3 Goals and Objectives

- ◆ Make provision to impart education and thereby develop quality human resources
- ◆ Furthering the advancement of learning through research

- ◆ Passing the knowledge gained through research to the stake holders – the farmers, through extension education
- ◆ Promoting partnership and linkages with national and international institutions
- ◆ Budding cutting edge technologies for national and international arena/ markets

### 1.4 Education

- ◆ To impart education in agriculture and allied sciences at undergraduate and post graduate levels leading to Bachelor's, Master's and Doctorate degrees in various colleges of Agriculture, Dairy, Veterinary, Agril. Engineering, Agril. Information Technology, Food Processing Technology & Bio-Energy, International Agribusiness Management and leading to diploma in various Polytechnics in Agriculture, Horticulture, Food Science & Home Economics and Agricultural Engineering
- ◆ To provide integrated agricultural education at different levels to increase efficiency and effectiveness of skill of students
- ◆ To upgrade the technical competence of teachers by redesigning course curriculum as suggested by ICAR/ Dean's Committee/VCI and coordinating the teaching with research in the field of agriculture
- ◆ To organize vocational courses to educate rural youth in various disciplines of agriculture and allied sciences with intention to develop self-employment
- ◆ To provide consultancy and advisory services to the industry, government and non-government sectors
- ◆ To architect agribusiness professionals for Agricultural, Agri. food firms, rural and allied sectors

- ◆ To encourage entrepreneurial spirit and develop qualified entrepreneurs for rural development
- ◆ To cater the needs of enterprises and cooperatives in agribusiness at national and international level

### 1.5 Research

- ◆ Evolving new varieties and breeds and developing technologies for increasing agricultural and animal productivity with a view to improve socio-economic status of farmers of Gujarat and India
- ◆ Develop package of practices for cultivation of various crops and cropping systems of central Gujarat
- ◆ Develop Integrated Farming System, Integrated Pest and Disease Management Systems, Organic Farming and Biological Control
- ◆ Develop cutting edge technologies in the field of Nanotechnology pertaining to agriculture, Animal husbandry and Food Sciences
- ◆ Develop technologies in the field of Milk production, Food processing and Bio-Energy.
- ◆ Develop specific indigenous and cross breeds suitable to agro-climate zone of central Gujarat

### 1.6 Extension Education

- ◆ Impart training to the officers and extension workers of line departments of Government of Gujarat and India, field functionaries, staff of the University, NGOs, farmers, entrepreneurs etc
- ◆ Conduct short and long duration vocational trainings for farmers, farm women, farm

youth, entrepreneurs and tribals

- ◆ Assess, refine and demonstrate latest agricultural technologies of University through front line demonstrations for their wider adoption
- ◆ Transmit agricultural technologies to the farmers and rural masses of Gujarat through mass media, information technologies and video conferencing.

### 1.7 University Organization

As per the GAU Act-2004, the Chancellor, Vice Chancellor, Director of Research & Dean PG Studies, Director of Extension Education, Dean Faculty of Agriculture, Dean Faculty of Veterinary Science & Animal Husbandry, Dean Faculty of Dairy Science, Dean Faculty of Agricultural Engineering & Technology, Dean Faculty of Food Processing Technology and Bio-energy, Dean Agricultural Information Technology, Dean Faculty of Horticulture, Registrar, Comptroller, Director of Students' Welfare, Librarian and Executive Engineer are Officers of the University. The detailed organizational set-up as well as administrative and functional aspects are given in Chapter 2.

Hon'ble Governorshri of Gujarat acts as the Chancellor of the University. During the period under report, Hon'ble Governorshri of Gujarat, Shri O. P. Kohli was the Chancellor; Dr. N. C. Patel, the Vice Chancellor, while Dr. M. N. Brahmhatt was the I/c Registrar of the University.

### 1.8 Power and Functions of the University

Under Section 6 of the GAU Act, 2004, the University is empowered to exercise the following powers :

- ◆ Provide education and instruction in agriculture and allied sciences and in such other branches of learning as the University may deem fit;
- ◆ Make provision for research in agriculture and allied branches of learning; make provision for dissemination of the findings of research and technical information through extension education programmes;
- ◆ Make such provision which would enable affiliated colleges and recognised institutions to undertake specialisation in different fields of studies;
- ◆ Institute degrees, diplomas and other academic distinctions;
- ◆ Lay down courses of study and instruction for various examinations;
- ◆ Hold examinations and confer degrees, diplomas and other academic distinctions and confer certificates to persons who -
  - a) have pursued approved courses of study at the University or at a college unless exempted there from, in the manner prescribed and have passed the examinations prescribed by the University or
  - b) have carried on research under conditions prescribed;
- ◆ Withdraw or cancel any degree, diploma or certificate conferred or granted by the University in such manner as may be prescribed;
- ◆ Confer Honorary degree and other distinctions in the manner prescribed;
- ◆ Provide lectures, instructions and training to persons who are not enrolled students of the University and grant such certificates to them as may be prescribed;
- ◆ Co-operate with any other University or authority in such manner and for such purpose as the University may determine;
- ◆ Establish and maintain colleges for imparting education in agriculture and allied sciences;
- ◆ Establish and maintain classrooms, laboratories, libraries, English language laboratory, research stations, institutions and museums with latest technology for teaching, research and extension education;
- ◆ Create such teaching, administrative and other posts as the University may deem necessary from time to time and make appointments thereto;
- ◆ Institute and award fellowships, scholarships and prizes in accordance with the Statutes;
- ◆ Associate or admit educational institutions imparting education in agriculture and allied sciences with, or to the privilege of the University by way of affiliation or recognition;
- ◆ Withdraw or modify, either in whole or part, affiliation or recognition of educational institutions;
- ◆ Inspect colleges and recognised institutions and take necessary measures to ensure that proper standards of instruction, teaching and training are maintained in them and that adequate library and laboratory provisions are made therein;
- ◆ Lay down and regulate the salary scales, allowances and other service conditions of the members of teaching, other academic and non-teaching staff of the University;
- ◆ Lay down and regulate the salary scales,

allowances and other conditions of service of the members of the teaching, other academic and non-teaching staff in the affiliated colleges and recognised institutions; to,

- control and co-ordinate the activities of, and to give financial aid to, affiliated colleges and recognised institutions; and
- regulate fees to be paid by the students in affiliated colleges and recognised institutions;
- ◆ Institute and maintain residential accommodation for students and staff of the University;
- ◆ Fix demand and receive or recover such fees and other charges as may be prescribed;
- ◆ Supervise, regulate and control the residence, conduct and discipline of the students of the University, make arrangements for promoting their health and general welfare;
- ◆ Conduct, co-ordinate, supervise, regulate and control post-graduate teaching and research work at the University departments and affiliated colleges and recognised institutions;
- ◆ Co-ordinate, supervise, regulate and control conduct of undergraduate teaching and instruction in the affiliated colleges and undertake the same in University colleges;
- ◆ Make special provision for agricultural education, research and extension in relation to arid areas and areas prone to scarcity in the University area;
- ◆ Perform all such other acts and things whether incidental to the powers aforesaid

or not, as may be requisite in order to further the objectives of the University.

## 1.9 Focus and Thrust Areas

AAU's activities have expanded to span newer commodities and other sectors such as soil health card, plant tissue culture, plant bio-technology, medicinal plants, liquid biofertilizer, location specific micronutrient status, pesticide residue, genomics, probiotic food, interface between industry and scientists, distance education etc., apart from the mandatory ones like research focus on rice, maize, tobacco, vegetable crops, fruit crops, forage crops, animal breeding, nutrition and dairy products etc. The core of AAU's operating philosophy however, continues to create partnership between the rural people and committed academia as the basis for sustainable rural development. In pursuing its various programmes, AAU's overall mission is to promote continuous process of development of sustainable growth and economic independence in rural society. AAU aims to do this through education, research and extension education. Thus, AAU works towards the empowerment of the farmers.

AAU has taken a lead in agricultural extension education, research and extension in the Country. The University is committed to frontier areas of research and formulate the programmes as per the need of the farmers. So far, 841 technologies have been recommended for farmers/scientists/ entrepreneurs and 57 crop varieties released. About 634 projects pertaining to education, research and extension education are underway in different areas of agriculture, veterinary, dairy, food processing technology, agricultural engineering and horticulture. We have shown our strength in the areas of Liquid biofertilizer, Pesticide residue

analysis, Soil health card, Astrometeorology calendar, Micro-propagation, Bio-diesel, Animal genomics, Rumen metagenomics, Modern surgical tools, Probiotic and Prebiotic fermented food products, post harvest value addition, ICT tools etc.

### 1.10 Accreditation

The Accreditation Board of ICAR, New Delhi has granted reaccreditation to Anand Agricultural University for a

period of five years w.e.f. 2016-17 to 2020-21.

### 1.11 N.I.R.F. Rank

Anand Agricultural University has been ranked at 40<sup>th</sup> position under University Category and 62<sup>nd</sup> position under overall category as per National Institutional Ranking Framework 2017, Ministry of Human Resource Development, Government of India.



B. A. College of Agriculture, AAU, Anand