

INTRODUCTION



Chapter - I



The Junagadh Agricultural University was established on 1st May, 2004 under Gujarat Agricultural Universities (GAUs) Act-2004. On completion of its seventeenth year, Annual Report is published with detailed information about its various achievements and activities carried out during the year 2020-2021.

1.1 Background

The Junagadh Agricultural University came into existence with the division of Gujarat Agricultural University into four Universities as a part of process of development of Agricultural Universities in Gujarat w.e.f. May, 2004. The jurisdiction of the University includes ten districts of Saurashtra region, *i.e.*, Junagadh, Gir-Somnath, Rajkot, Morbi, Jamnagar, Devbhumi Dwarka, Surendranagar, Bhavnagar, Amreli and Porbandar. The head quarter of the University is located at Junagadh. The University has 31 subcentre spread in which various plan schemes, non-plan schemes, AICRPs and external funded project are running.

1.2 Aim

The aim of Junagadh Agricultural University is to promote agricultural productivity in general and to improve the economic condition of rural community in particular through integration of teaching, research and extension education.

1.3 University Management and Administration

As per the GAUs Act-2004, the Chancellor, Vice Chancellor, Director of Research & Dean PG Studies, Dean Faculty of Agriculture and Horticulture, Dean Faculty of Agricultural Engineering & Technology, Dean Faculty of Fisheries Science, Dean Faculty of Agri-Business Management, Dean Faculty of Veterinary Science & Animal Husbandry, Director of Extension Education, Registrar, Comptroller, Librarian, Director (Information Technology) and Director of Students' Welfare are officers of the University.

Hon'ble Governor of Gujarat acts as the Chancellor of the University. Shri Acharya Devvratji, Hon'ble Governorshri of Gujarat was the Chancellor

whereas Dr. V. P. Chovatia was the Vice Chancellor and Director of Research and Dean PG Studies; Dr. H. M. Gajipara, Director of Extension and Education and Dr. P. M. Chauhan was the Registrar during the period under report.

The details of various activities of the University are as follows:

1.4 Education

The educational programme in Junagadh Agricultural University is based on two-tier system. The first one covers higher education in Agriculture, Horticulture, Agricultural Engineering & Technology and PGIABM, in which UG and PG residential instruction programmes are covered. While the second consists of other education, *i.e.*, Diploma and Certificate programmes like Agro-based I.T.I., Polytechnic Diploma, Bakery Training, *Mali* Training and Extension Education Training.

During the period under report, 427 students at UG level, 40 students Diploma to Degree level and 241 students at PG level and 238 students at polytechnic diploma level were admitted in various colleges/polytechnics situated at on/off campus of the University, *i.e.*, Polytechnic in Agriculture, Horticulture, Agro-Processing, Agricultural Engineering, College of Agriculture, College of Horticulture, College of Agricultural Engineering & Technology and PG Institute of Agri-Business Management at Junagadh, College of Agriculture at Motabhandariya (Amreli) and College of Agriculture, Khapat (Porbandar). A total 175 students at diploma level, 295 students at UG level, 51 at Master level and 11 at Doctoral level have successfully completed their respective courses during the period under report.

The Sixteenth Annual Convocation was held at Junagadh on February 06, 2021. **Padma Bhushan Shri Rajnikant Shroff, Chairman and Managing Director, UPL** was the chief guest. Hon'ble Governorshri of Gujarat and Chancellor of this University, Shree Acharya Devvrat, awarded as many as 660 Under Graduate and Post Graduate degrees (Table 3.7). For the academic year 2020-21, 10 Gold



Medals, 59 Gold Plated Silver Medals and 2 Cash Prizes were awarded to students for their outstanding performance at examination, achieving high percentage of marks and stood first on merit in various examinations.

The university has implemented online exam management system through JEMS (Junagadh Exam Management System). The software has been purchased to strengthen the examination and evaluation system as well as timely and precisely declaration of results, issuing of notifications, markheets, transcript and other examination relevant certificates.

1.5 Research

The Directorate of Research and Dean PG Studies is responsible for monitoring and supervision of various research projects, planning and implementation of research activities at different research stations as well as the PG research programmes and their evaluation.

Junagadh Agricultural University has 31 research stations including multidisciplinary main research stations, sub centres on various crops and testing centres spread over in North Saurashtra Agro-climatic Zone and South Saurashtra Agro-climatic Zone. The research at these stations are carried out in the field of Agriculture, Horticulture, Agricultural Engineering, Animal Sciences and Fisheries for catering the needs of farmers, artisans, livestock owners, fishermen and rural masses for their upliftment. The research activities have been carried out in Crop Improvement, Crop Production, Plant Protection, Soil Science, Cropping System, Water Management, Weed Management, Nutrient Management, Organic Farming, Horticulture, Agricultural Meteorology, Plant Physiology, Biochemistry, Biotechnology, Seed science and Technology, Social Sciences, Agricultural Engineering, Animal Science, Fisheries Science, etc.

The efforts made by scientists of the University emerged with 7 new varieties, 67 farmers' recommendations and 40 scientific recommendations

as well as 84 new technical programmes were finalised during the year. Besides this, seed production programmes were also taken up for different varieties of different crops. About 4137 qt nucleus/breeder seed, 4081 qt truthful seed, 792 qt Foundation seed, 2413 qt Certified stage seed were produced. Besides, University also produced 3.347 tons of *Trichoderma*, 8.40 tons of *Beauveria*, 2685 liter of liquid biofertilizer, 7888 Pheromone trap/lure, 17948 lure and other biopesticides for farmers. During the year, about 38 new research projects were sanctioned by ICAR, Government of India, Government of Gujarat and other agencies.

1.6 Extension Education

Under the Directorate of Extension Education, JAU, Junagadh different certificate courses viz., Bakery Training, Mali Training and Agro Based I.T.I. running for rural youth. Due to COVID-19 pandemic condition no any admission were made in these courses. The Directorate has organise the trainings and about 120 Agro Input Dealers had completed their courses successfully. The T & V System training programmes were held and about 282 Extension Officers of State Department of Agriculture and Horticulture were participated in 06 training programme. About 07 Khedut Shibir were also organized in which 587 farmers / beneficiaries were participated. Through the transfer of technology (TOT) centres, 162 on-campus and 218 off-campus training programmes were organized, wherein 11,658 participants were participated. Beside this, the TOT centres regularly organized extension education activities like workshops, farmers' day, agricultural exhibitions, field visits, cattle camps, Farmers scientists meetings etc. which benefitted about 68,700 farmers. KVKs conducted 1123 FLDs on various crops in 350 ha. KVKs guided farmers to solve their field level problem through personal visits by SMS. The feedback on farmers' problems were collected and sent to concerned scientists for formulation of research programme.

A Farm Advisory Scheme has arranged one programme in which 20 participants were benefited.



Under Centre of Communication Scheme, 15 Gram Kissan Samiti (GKSSs) were formulated and 09 Khedut Shibirs were organised in which 682 farmers participated. The Extension Education Centres benefited 8857 farmers by organising 37 extension programmes.

The Farmer FIRST programme was implemented in four selected villages of Amreli district comprising of five interventions like IFS for 40 farmers, NRM for 50 farmers, Enterprise for 100 beneficiaries, Crop based *i.e.* Wheat - 100, Groundnut - 100, Cotton - 160, Gram-50 farmers and Livestock for 50 dairy farmers. Thus, Farmer FIRST programme covered 650 farm families and also for updating their knowledge, 21 on-campus training programmes, 15 field days and 15 meetings of farmers were organized.

The efforts were made to create awareness among the farmers/ rural people about technological advancement through different media *viz.*, TV, radio and publication of different literature related to agriculture and allied fields. During the year, 18 TV programme and 27 radio talks were given by scientists of the University. Besides these, eight booklets were also published. University News Bulletin "JAU News Letter" is being published quarterly by the Directorate of Extension Education. AGRISNET studio is established for the production of various multimedia gadgets/ video CDs on modern agricultural Technologies for farmers. Community Radio Station "Janvani FM 91.2" is broadcasting programmes twice a day on the current issues related to Agriculture and allied field.

1.7 Students' Welfare

Director, Students' Welfare is responsible for making arrangements for housing, boarding and welfare of the students and coordinates various co-curricular activities such as arrangement of Inter Collegiate, Inter University and National level Sports tournaments, literary & cultural competitions, and also implements various activities of National Service Scheme as Programme Coordinator (NSS) other than the academic work.

The University is always looking forward for the welfare of the students through different activities like sports, cultural, spiritual programmes, NSS, health, adventure, educational tour with a view to develop personality, character and high human values in Polytechnic, UG and PG students of the University.

The campus interviews were arranged for placement of students at different colleges. Campus placements were organised and about 65 students by campus interview were selected for various jobs. Under NSS, 1930 number of volunteers participated at university level NSS camps and 1783 number of volunteers participated in NSS Awareness-cum-celebration programme. Due to COVID pandemic educational tours were online arranged for the students. Various scholarships were availed for the students. University canteen and all hostels are provided with CCTV camera. The University is lockdown due to third wave of the COVID-19 during the year and students were sent with all precaution to their native and during their arrival all SOPs were followed.

1.8 University Library & Information Technology

The University Library acquaints services to the faculty scholars, scientists and extension activists under 8 constituent colleges as well as research stations and extension education centres of Junagadh Agricultural University.

The University Library possesses around 56000 books, 150 indian journals as well as 06 foreign journals, 3100 thesis, 10 newspaper, 700 e-books and 16000 back volumes. CD-ROM database like CAB, AGRICOLA, AGRIS and eBooks are available for users. Online Access of Journals through Consortium for e-Resources in Agriculture (CeRA) and KRISHIKOSH are available. Full time internet, scanning and CD writing facilities are available for the students in which there are 40 work stations with internet access. These facilities are being extensively utilized by both faculty and students on an average of daily 50 to 300 users for about 12 hours per day. The



book bank facility also exists for students; 37 more books were purchased of agricultural faculty for the book bank. The Library runs through RFID with the software KOHA and LIBSYS. University has created AC reading room with 100 capacity which remains open from 8 am to 10 pm daily, used by the students extensively.

Junagadh Agricultural University (JAU) has established dedicated Information Technology Cell with an aim to provide Information Technology (IT) resources and services to its students, faculties, research scientists, extension officers and staff. IT resources and services provided by the University through IT Cell includes uninterrupted high-speed internet access within campus as well as in sub centres located outside the university area, email, video conferencing, JAU Exam Management System (JEMS), Online JAU Circulars, Mera Gaon Mera Gaurav, Online HRD/Tour programme, Online PF, Student Fees Receipt, KVK Bill Management, CCTV surveillance, Wi-Fi access, Google apps, Online Recruitment, etc.

To make governance more transparent, the purchases through Government eMarketplace (GeM) by Government users have been authorised and made mandatory by Ministry of Finance by adding a new Rule No. 149 in the General Financial Rules, 2017. For the university purchases through GeM, IT Cell has developed online solution for registration and user management.

JAU has total 305 Mbps dedicated 1:1 Internet Lease Line (ILL) connectivity through different internet service providers. This includes 100 Mbps 1:1 Internet Leased Line (ILL) through Railtel under National Knowledge Network (NKN) that encourages the usage of specialized applications, which allows sharing high performing computing facilities, e-libraries, virtual classrooms and large databases, 25 Mbps 1:1 ILL from BSNL.

University has installed highly secured network architecture with Firewall, IDS (Intrusion Detection

System), Analyzer, Content filtering etc. The coverage of the University Campus Network is extensive with more than 1000 network points and over 50 wireless access points. Network Management Software is being used for continuous network monitoring and fault detection and its solutions. Moreover, more than 6500 mt. fibre cable is laid down to provide high speed network connectivity. Moreover, the University is also connected to Asia's biggest network "Gujarat State wide Area Network (GSWAN), Gandhinagar" through optical fibre connectivity for accessing online Government's programmes.

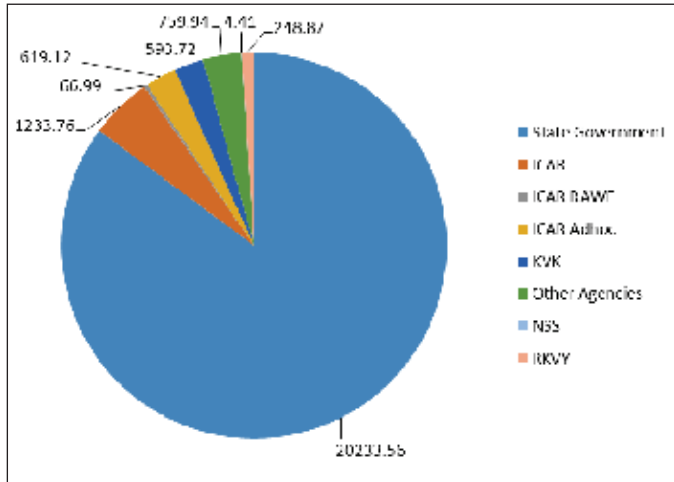
University has well established surveillance setup, which includes more than 750 CCTV cameras and central monitoring system. Monitoring rights is also given to respective Colleges/Units for the CCTV cameras of their premises.

1.9 Finance and Accounts

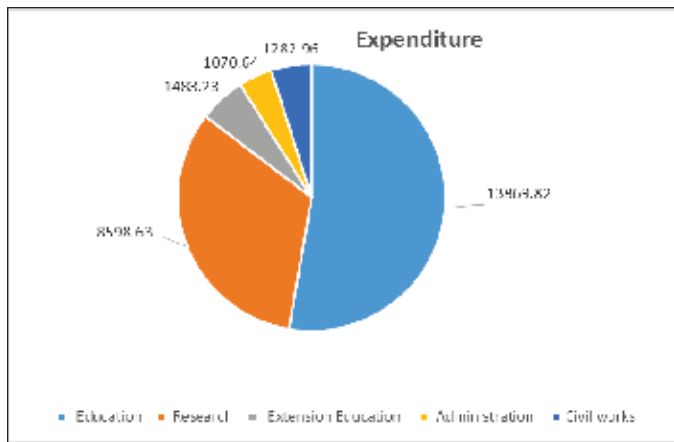
Major sources of finance were Government of Gujarat, Government of India, ICAR and other agencies, which sanctioned grant through different schemes. During the period under report, State Government sanctioned 8287.93 lakh under plan and 11945.63 lakh under non-plan.

The finance sources, fund and budget (₹ in Lakh) Income:

• Opening Balance as on 01.04.2020	8705.39
• Grant Received during 2020-21	
• State Government	20233.56
• ICAR All India Coordinated Research Projects	1233.76
• ICAR (RAWI)	66.99
• ICAR Adhoc	619.12
• KVK	593.72
• Other Agencies	759.94
• N.S.S.	4.41
• RKVY	248.87
• University Receipts	1914.68
Total	25675.05



Expenditure:	(₹ in Lakh)
• Education	1,38,69.82
• Research	8,598.63
• Extension Education	1,483.23
• Administration	1,070.64
• Civil works: Construction/Maintenance	1,282.96
Total	26,305.30



The University is entrusted with the work of Internal Audit, Local Fund Audit and AG Audit. The necessary Fakara / Half Margin were submitted duly to comply with the queries of the party and pursued as far as possible. Moreover, after first compliance with the Local fund out of 56 paras of the 2015-16, about 7 audit paras settled during the year.

Besides this, action taken audit report for the year 2016-17 submitted in the Gujarat Legislative assembly on 31 March 2021.

The pension cases on account of superannuation and voluntary retirement of the officers/employees from the University have been settled granting the pension/commuted pension and gratuity. A total 72 employees were retired during the year and the payment was made to the staff/officers for their retirement benefits. The amount of ` 09,56,29,950/- was paid to the employees for the cases comprised of 96 Part final withdrawal and 140 special advances. While ` 12,00,61,367/- was paid as final withdrawal to (83) and transfer (1) employees during current financial year. Thus, 320 University employees were get benefit of P.F. worth Total `21,56,91,317/- in the financial year.

1.10 Estate Management

The civil works like construction and related works, repairs and maintenance of buildings and roads, water supply, maintenance of drainage system, street light, electrification, repairing of electrical faults, etc. were looked after by the Executive Engineer. During the year under report, Construction Committee and Board of Management accorded approval for various works meant for creating new facilities at main campus as well as at centres of the University. About 4 civil works were completed with an outlay of 666.32 Lakhs, where as 6 civil works are in progress with an outlay of Rs. 630.75 lakhs.

