



INTRODUCTION

Chapter - I



The Junagadh Agricultural University was established on 1st May, 2004 under Gujarat Agricultural Universities Act-2004. On completion of its fourteenth year, Annual Report is published with detailed information about its various activities and achievements.

1.1 Background

The Junagadh Agricultural University came into existence 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.

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 and Home Science, 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 and Director of Students' Welfare are officers of the University.

Hon'ble Governorshri of Gujarat acts as the Chancellor of the University. Shri Om Prakash Kohli, Hon'ble Governorshri of Gujarat was the Chancellor where as Dr. A.R. Pathak was the Vice Chancellor and Dr. A. M. Parakhia 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, Fisheries Science and Veterinary Science & Animal Husbandry, in which polytechnic diploma; UG and PG residential instruction programmes are covered. While the second consists of lower education, *i.e.*, diploma and certificate programmes like Agro-based I.T.I., Agriculture Diploma, Bakery Training, *Mali* Training and Extension Education Training.

During the period under report, 175 students at polytechnic diploma level, 430 students at UG level, 31 students Diploma to Degree level and 288 students at PG level were admitted in various polytechnics/ colleges situated at on/off campus of the University, *i.e.*, Polytechnic in Agriculture, Horticulture, Agro-Processing, Home Science, Agricultural Engineering, Animal Husbandry, College of Agriculture, College of Horticulture, College of Agricultural Engineering & Technology, College of Veterinary Science & Animal Husbandry and PG Institute of Agri-Business Management at Junagadh, College of Fisheries Science at Veraval and College of Agriculture at Amreli and College of Agriculture, Khapat (Porbandar). 131 students at diploma level, 329 students at UG level, 238 at Master level and 42 at Doctoral level have successfully completed their respective courses during the period under report.

The Thirteenth Annual Convocation was held at Junagadh on January 28, 2018. **Dr. Trilochan Mohapatra**, Secretary (DARE) & Director General ICAR, Govt. of India, New Delhi, was the chief guest. As many as 585 students were awarded Under Graduate and Post Graduate degrees by Hon'ble Governorshri of Gujarat and Chancellor of this university, Shree O.P. Kohli. For the academic year 2017-18, 8 Gold Medals, 48 Gold Plated Silver Medals and two 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, mark sheets and other examination relevant certificates.

1.5 Research

The 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 were carried out under the guidance of Director of Research & Dean, PG Studies.

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, 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, 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 variety, 46 farmers' recommendations and 41 scientific recommendations as well as 121 new technical programmes were finalised during the reporting year. It also resulted in emerging three new crop varieties for farmers. Besides this, seed production programmes were also taken up for different varieties of different crops. About 3305.74 qt nucleus/breeder seed, 3918.29 qt

truthful seed, 231.18 qt Foundation seed, 1530.90 qt Certified stage seed as well as 1,39,264 number of planting materials were produced. Besides, University also produced 179 tonnes of *Trichoderma*, 175 tonnes of *Beauveria*, 8000 liter of liquid biofertilizer, 61000 Pheromone trap for pink bollworm, 1.4 lakh lure and other biopesticides for farmers. During the year under report, total 17 new research projects were sanctioned by ICAR, Government of India, Government of Gujarat and other agencies.

1.6 Extension Education

Through the extension education activities, total 335 students have completed different certificate/diploma courses viz., Agricultural Diploma, Bakery Training, *Mali* Training and Agro-based ITI, Input dealers training, etc. The T & V system programmes were also held and about 559 extension workers have taken training in different 11 training programmes. Twenty seven other training programmes were also organised, in which 6345 farmers/beneficiaries participated. Through the Transfer of Technology (TOT) Centres, 125 on-campus and 131 off-campus training programmes were organized, wherein 9049 participants received training. Besides this, the TOT centres also regularly organised extension education activities like symposia, workshops, farmers' days, agricultural exhibitions, fairs, visual programmes, field visits, cattle camps, meetings etc. which benefitted 3,20,911 farmers. KVKs conducted 1017 FLDs on various crops in 474.6 ha. KVKs also guided farmers to solve their field level problems through personal visits by SMS. The feedback on farmers' problems were collected and sent to concerned scientists for formulation of research programme.

Through eight programmes arranged by Farm Advisory Scheme, total 3,67,464 participants were benefited. Under Centre of Communication (COC) scheme, 18 *Gram Kishan Samittees* (GKSs) were formulated and seven *Khedut Shibirs* were organised in which 229 farmers participated. Extension Education Centres benefitted 4,69,187 farmers by organising 197 extension programmes.



The efforts were made to create awareness among farmers/rural people about technological advancement through different media viz., TV, radio and publication of agricultural literature. During the report period, 21 TV programmes and 28 radio talks were given by scientists of the University. Besides these, 21 folders and five booklets were also published. University News Bulletin “*JAU News letter*” is being published regularly by the Directorate of Extension Education.

AGRISNET studio is established for the production of various multi media gadgets/ video CDs on modern agricultural technologies for farmers. During Krushi Mahotsav- 2017, video CD on Various agricultural technologies in Gujarati were prepared and distributed.

Community radio station (Junagadh Janvani) has facilitated with equipments for recording, editing and broadcasting facilities. During *Krushi Mahotsav-2017*, the University extended guidance to 1,08,724 farmers.

1.7 Students'Welfare

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. A total of 188 students by campus interview were selected for various jobs. Five Inter-collegiate sports and four cultural activities were organised by the University. Students also participated in Gujarat State Inter Agricultural University Cultural-Literacy Competition, Inter University National Debate Competition, All India Agricultural Universities Youth Festival and Basic Rock Climbing Course. Under NSS, 963 number of volunteers participated at university level programmes and 1668 number of volunteers participated in NSS Awareness-cum-celebration programme. Educational tours were

arranged for the students of Colleges of Agriculture, Agricultural Engineering & Technology and Fisheries Science. Various scholarships were availed for the students. University canteen and all hostels are provided with CCTV camera.

1.8 University Library & Information Technology

The University Library possesses around 53500 books, about 60 Indian as well as 17 foreign journals 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) is 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 200 to 250 users for about 12 hours per day. The book bank facility also exists for students; 40 more books were purchased of agricultural faculty for the book bank. Library subscribes 10 newspapers to acquaint users with daily news. University has created AC reading room with 150 capacity which is using kept open 8 am to 10 pm daily, used by the students extensively.

The university has equipped IT cell with highly qualified manpower and high end IT resources. IT resources and services provided by the University through IT Cell include 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, GeM has been delivered with technical support of National eGovernance Division (Ministry of Electronics and Information Technology) has developed GeM portal for procurement of both Products & Services. GeM is a short form of one stop Government e-Market

Place. Awareness training was organized by IT Cell in collaboration with CSPO, Industry and Mines Department, Government of Gujarat with the help of GeM officials.

JAU has total 355 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, 120 Mbps 1:1 ILL from BSNL and 70 Mbps 1:1 ILL from Ishan. JAU has also provided internet connectivity to its 16 sub centres through this internet bandwidth pool.

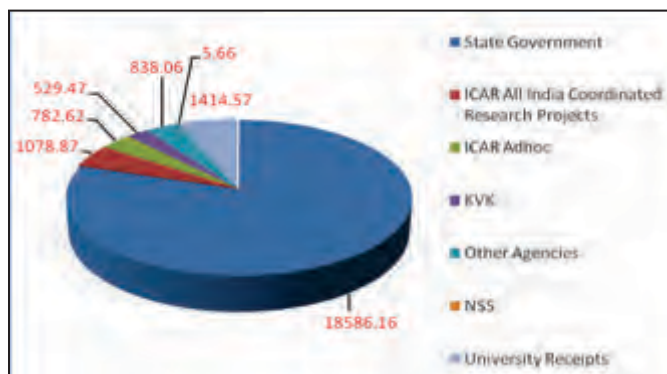
University Campus Network is extensive with more than 500 network points and over 40 wireless access points. Network Management Software is being used for continuous network monitoring and fault detection and its solutions. Moreover, more than 6000 mt. fibre cable is laid down to provide high speed network connectivity. IT cell has configured Fortigate900D firewall to provide more secure and incorporate more simultaneous users' access to JAU network. IT Cell has installed 400+ number of CCTV cameras with necessary network infrastructure in JAU campus to strengthen video surveillance in the University. 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 programme.

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 ₹ 9540.71 lakh under plan and ₹ 9045.45 lakh under non-plan.

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

■ Opening Balance as on 01.04.2017	2747.14
■ Grant Received during 2017-18	
• State Government	18586.16
• ICAR All India Coordinated Research Projects	1078.87
• ICAR (RAWE)	0.00
• ICAR Adhoc	782.62
• KVK	529.47
• Other Agencies	838.06
• N.S.S.	5.66
■ University Receipts	1414.57
Total	23329.81



Expenditure:	(₹ in Lakh)
• Education	10752.99
• Research	6868.20
• Extension Education	1348.11
• Administration	1049.98
• Civil works: Construction/ Maintenance	2020.51
Total	22039.82





The University is entrusted with the work of Internal Audit, Local Fund Audit and AG Audit. During the period under report, Local Fund, Junagadh has completed the audit work for the year 2015-16 and Accountant General for the financial year 2014-15 to 30/09/2017. Overall 83 and 240 audit paras were settled by AG audit and Local fund audit, respectively during period of report.

The internal audit was done by the help of internal staff available at the University. Moreover, different projects funded by various agencies viz., ICAR, Central Government and ICAR sponsored other agencies were also audited by Chartered Accountant and Audit Utilization Certificates were sent to the funding agencies for timely allocation of fund. Physical store verification was carried out by internal arrangement. During the period of the report, verification reports for various centres were submitted to the University.

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. Total 72

pensioners were retired during the year and the payment was made to the staff/officers for their retirement benefits. The amount of ₹ 19,14,93,215/- was paid to the employees for the cases comprised of 136 Part final withdrawal, 266 special advances and for ordinary advances. While ₹7,28,75,110/- was paid as final withdrawal to (80) and transfer (1) employees during current financial year. Thus, 483 University employees were benefited of P.F. worth Total ₹19,14,93,215/- in current financial year.

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. Total 11 civil works were completed with an outlay of ₹. 155.70 Lakhs, where as 18 civil works was on hand with an outlay of ₹. 979.06.

