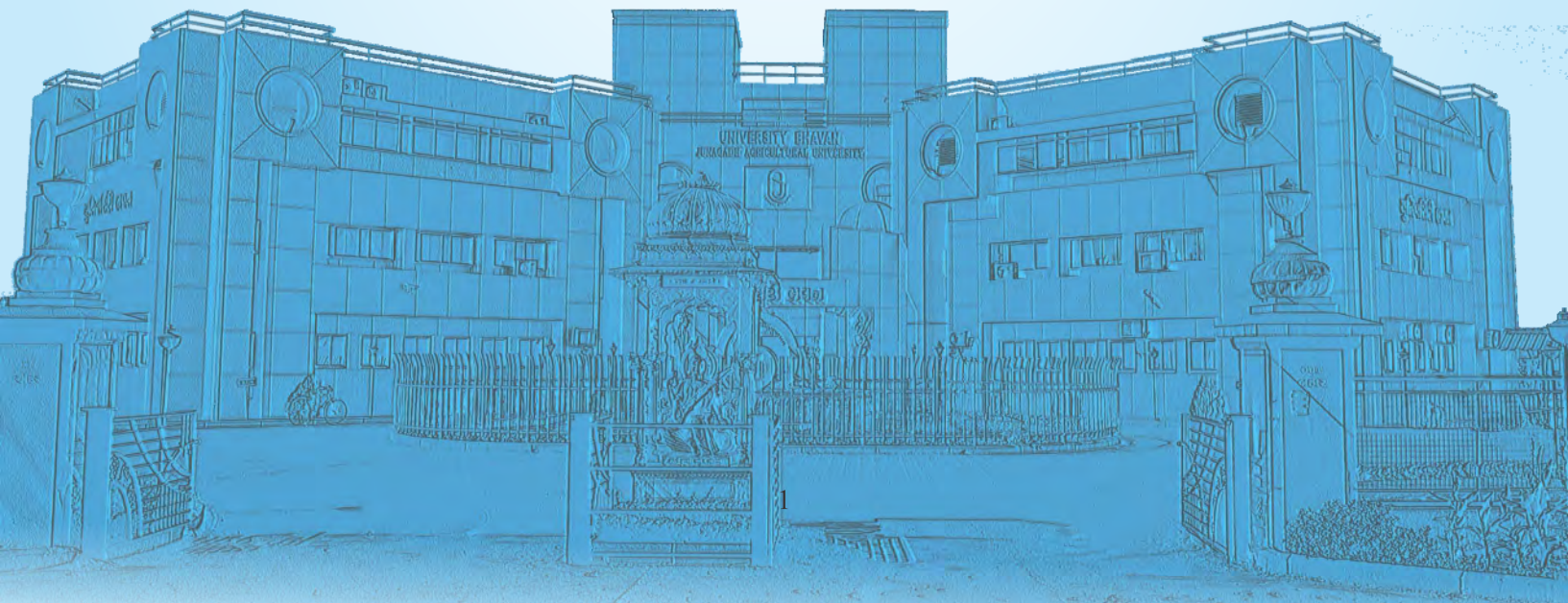




Chapter - I



INTRODUCTION



The Junagadh Agricultural University was established on 1st May, 2004 under Gujarat Agricultural Universities Act-2004. On completion of its sixteenth year, Annual Report is published with detailed information about its various achievements and activities carried out during the year 2019-2020.

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, 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 Governorshri of Gujarat acts as the Chancellor of the University. Shri Acharya Devvratji, Hon'ble Governorshri of Gujarat was the Chancellor whereas Dr. A.R. Pathak (till 06/10/2019) and Dr. V. P. Chovatia (from 07/10/2019) were the Vice Chancellor 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, Fisheries Science Veterinary Science & Animal Husbandry and PGIABM, in which polytechnic diploma; UG and PG residential instruction programmes are covered. While the second consists of lower education, i.e., certificate programmes like Agro-based I.T.I., Bakery Training, Mali Training and Extension Education Training.

During the period under report, 268 students at polytechnic diploma level, 571 students at UG level, 42 students Diploma to Degree level and 297 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, 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, College of Agriculture at Motabhandariya (Amreli) and Aspee College of Agriculture, Khapat (Porbandar). A total 141 students at diploma level, 417 students at UG level, 240 at Master level and 42 at Doctoral level have successfully completed their respective courses during the period under report.

The Fifteenth Annual Convocation was held at Junagadh on December 27, 2019. Dr. M. B. Chetti, Hon'ble Vice Chancellor, University of Agricultural Sciences, Dharwad (Karnataka) was the chief guest. Hon'ble Governorshri of Gujarat and Chancellor of this university, Shree Acharya Devvratji, awarded as many as 618 students Under Graduate and Post Graduate degrees. For the academic year 2019-20, 9 Gold Medals, 54 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, marksheets, transcript 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, 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 4 new varieties, 46 farmers' recommendations and 28 scientific recommendations as well as 79 new technical programmes were finalised during the reporting year. Besides this, seed production programmes were also taken up for different varieties of different crops. About 4787.18 qt nucleus/breeder seed, 2186.95 qt truthful seed, 307.70

qt Foundation seed, 4216.20 qt Certified stage seed as well as 174443 planting materials were produced. Besides, University also produced 215.39 tons of Trichoderma, 89.55 tons of Beauveria, 7580 liter of liquid biofertilizer, 59439 Pheromone trap for pink bollworm, 1.21 lakh lure and other biopesticides for farmers. During the year under report, total 23 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, a total 254 students have completed different certificate/ diploma courses viz., Bakery Training, Mali Training and Agro Based I.T.I. etc. A total of 444 Agro Input Dealers have completed their courses successfully. The T & V System training programmes were held and about 420 Extension Officers of State Department of Agriculture and Horticulture were participated in different 12 training programme. Ten other training programmes were also organized, in which 584 farmers / beneficiaries were participated. Through the transfer of technology (TOT) centres, 150 on-campus and 194 off-campus training programmes were organized, wherein 14,425 participants were participated. Beside this, the TOT centres regularly organized extension education activities like workshops, farmers' days, agricultural exhibitions, field visits, cattle camps, Farmers scientists meetings etc. which benefited 12,96,909 farmers. KVKs conducted 1514 FLDs on various crops in 491.2 ha. KVKs guided farmers to solve their field level problem through personal visits by Subject Matter Specialist. The feedback on farmers' problems were collected and sent to concerned scientists for formulation of research programme.

Through five programme arranged by Farm Advisory Scheme total 83,850 participants were benefited. Under Centre of Communication Scheme, 28 Gram Kissan Samiti (GKSSs) were formulated and 10 Khedut Shibirs were organised in which 584 farmers participated. The various Extension Education Centres benefited 1,30,583 farmers by organising 263

different extension programmes.

The Farmer FIRST programme is 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. For updating their knowledge, 34 on-campus training programmes, 23 field days and 21 meetings of farmers at their respective village were organized.

The efforts were made to create awareness among the farmers/ rural people about technological advancement thorough different media viz., TV, radio and publication of agricultural literature. During the report period, 26 TV programme and 19 radio talks were given by scientists of the University. Besides these, five booklets were published. University News Bulletin "JAU News Letter" is being published quarterly by the Directorate of Extension Education. AGRISNET studio was 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.

Junagadh Agricultural University celebrated the Kharif Krishi Mahotsav-2019 during 16-17 June, 2019 declared by Government of Gujarat. During the Krushi Mahotsav, Seminars and Exhibitions were organized in 72 Talukas of 9 District under jurisdiction of Junagadh Agricultural University on different subjects like Agriculture, Horticulture, Animal Husbandry and Fisheries. In addition, the information on various agricultural schemes of Government of Gujarat were delivered to the farmers. A total 9 Agricultural Scientists of Junagadh Agricultural University were assigned the duty of Nodal officers for the coordination of the Programmes. A total 216 scientists as well as officers were assigned duty to deliver the lectures in the

seminars and to provide information to the participants in the exhibitions. More than 64000 farmers, farm women, dairy farmers and other stakeholders were participated and accented latest information on different agricultural aspects. The Cattle Camps were also organized at different taluka places and more than 96000 animals got treated.

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. A total of 97 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 All Gujarat Inter Agricultural University Polytechnic Sports: 2019-20, Gujarat State Inter Agricultural University Cultural-Literacy Competition, Inter University National Debate Competition, All India Inter Agricultural Universities Sports Meet and Basic Rock Climbing Course. Under NSS, 1495 number of volunteers participated at university level NSS camps and 1783 number of volunteers participated in NSS Awareness-cum-celebration programme. Nine educational tours were arranged for the students of Colleges of Agriculture, Agricultural Engineering & Technology, Veterinary Science, Fisheries Science and various polytechnics. 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 acquaints services to the scholars, scientists and extension activists under 8 constituent colleges as well as research stations and extension education centres of Junagadh Agricultural University, Junagadh.

The University Library possesses around 54500 books, which includes 60 Indian as well as 14 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.

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 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, 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 260 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 and 135 Mbps 1:1 ILL from Ishan.

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.

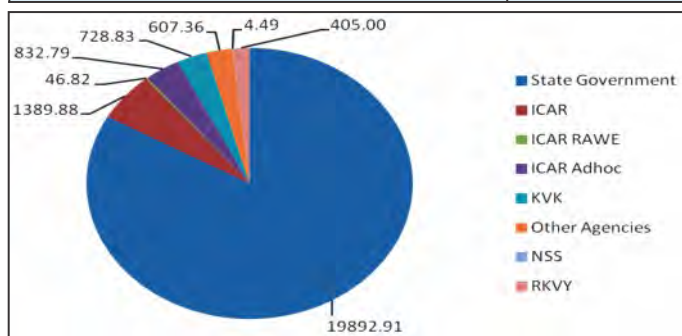
1.9 Finance and Accounts

Major sources of finance were Government of Gujarat, Government of India, ICAR and other agencies, which sanctioned grant through different

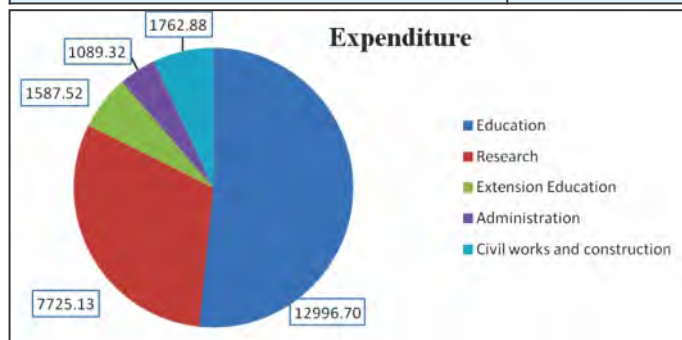


schemes. During the period under report, State Government sanctioned 8810.38 lakh under plan and

▪ Opening Balance as on 01.04.2019	8281.73
▪ Grant Received during 2019-20	
• State Government	19892.91
• ICAR All India Coordinated Research Projects	1389.88
• ICAR (RAWE)	46.82
• ICAR Adhoc	832.79
• KVK	728.83
• Other Agencies	607.36
• N.S.S.	4.49
• RKVY	405.00
▪ University Receipts	1677.14
Total	33866.95



Expenditure:	(₹ in Lakh)
• Education	1,29,96.70
• Research	7725.13
• Extension Education	1587.53
• Administration	1089.32
• Civil works: Construction/Maintenance	1762.89
Total	25161.57



11082.53 lakh under non-plan.

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

Income:

The University is entrusted with the work of Internal Audit, Local Fund Audit and AG Audit. During the report period 2019-2020, a subject specific compliance Audit for Five years 2014-15 to 2018-19 were carried out by the A. G. office Ahmedabad. A total 100 requisitions were submitted duly to comply with queries of the audit party which were pursued as far as possible on the spot. Thus at last 63 POM were given by the A. G. office Ahmedabad which were duly comply form the university. Besides this, action taken audit report for the year 2015-16 submitted in the Gujarat Legislative Assembly on 11th December 2019.

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 65 pensioners were retired during the year and the payment was made to the staff/officers for their retirement benefits. The amount of ₹ 18,14,93,358/- was paid to the employees for the cases comprised of 121 Part final withdrawal, 163 special advances and 1 for ordinary advances. While ₹ 6,49,98,358/- was paid as final withdrawal to (63) and transfer (2) employees during current financial year. Thus, as 356 University employees were get benifit of P.F. Worth a total ₹ 18,14,93,358/- in a 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. A total 10 civil works were completed with an outlay of 722.57 Lakhs, where as 6 civil works was on hand.