

INTRODUCTION



Chapter - 1





The Junagadh Agricultural University was established on 1st May, 2004 under Gujarat Agricultural Universities (GAUs) Act-2004. On completion of its Twentieth year, Annual Report is published with detailed information about its various achievements and activities carried out during the year 2023-2024.

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 sub-centers at which, various plan schemes, non-plan schemes, AICRPs and external funded project are under operation.

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, Dean Faculty of Horticulture, Dean Faculty of Agricultural Engineering & Technology, Director of Extension Education, Registrar, Comptroller, Librarian, Director (Information Technology) and Director of Students' Welfare are officers of the University.

The Hon'ble Governor of Gujarat serves as the Chancellor of the University. During the reporting period, Shri Acharya Devvratji, Hon'ble Governor of Gujarat, held the position of Chancellor. Dr. V. P. Chovatia served as the Vice Chancellor. Dr. H. M.

Gajipara and Dr. R. B. Madariya were Directors of Research, while Dr. H. M. Gajipara and Dr. N. B. Jadav were Directors of Extension and Education. Dr. P. M. Chauhan served as the Registrar.

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 Post Graduate Institute of Agri Business Management, in which UG and PG residential instruction programs are covered. While the second consists of other education, *i.e.*, Diploma and Certificate programs like Polytechnic (Diploma), Agro-based I.T.I., Bakery Training, *Mali* Training and Extension Education Training.

During the period under report, 439 students at UG level, 52 students Diploma to Degree level, 202 students at Master & Ph.D. level and 227 students at polytechnic (diploma) level were admitted in various colleges/polytechnics situated 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 ASPEE College of Agriculture at Khapat (Porbandar). A total 173 students at diploma level, 399 students at UG level, 103 at Master level and 40 at Doctoral level have successfully completed their respective courses during the period under report.

The Nineteenth Annual Convocation was held at Junagadh on January 04, 2024. Shri Gajendra Singh, Sah Sangathan Mantri, Akhil Bhartiya Kisan Sangh was the Chief Guest. Hon'le Governor Shri of Gujarat and Chancellor of this University, Shree Acharya Devvratji, awarded total 628 Under Graduate and Post Graduate degrees (Table 3.7). For the academic year



2023-24, 8 Gold Medals, 56 Gold Plated Silver Medals and 1 Cash Prizes were awarded to students for their outstanding performance in education, achieving high percentage of marks and stood first on merit in various examinations and extracurricular activities.

The university has implemented online exam management system through JEMS (JAU Exam Management System). The software has been implemented for smoothening the examination and evaluation system as well as timely declaration of results, issuing of notifications, mark sheets, transcript and other examination relevant certificates.

1.5 Research

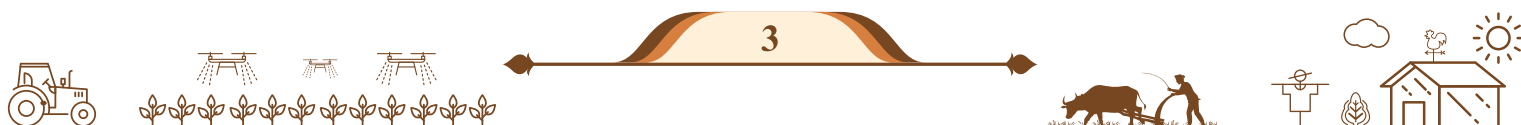
The Directorate of Research and Dean PG Studies is responsible for monitoring and supervision of various research projects, planning and implementation of research activities at different research stations as well as the PG research programmes and their evaluation. Junagadh Agricultural University has 24 research stations including multidisciplinary main research stations, sub centres on various crops and testing centres spread over North Saurashtra, South Saurashtra, Part of North-West and Part of Bhal & Coastal Agro-climatic Zones. The research at these stations are carried out in the field of Agriculture, Horticulture and Agricultural Engineering for catering the needs of farmers, artisans 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, Natural Farming, Horticulture, Agricultural Meteorology, Plant Physiology, Biochemistry, Biotechnology, Seed science and Technology, Social Sciences, Agricultural Engineering, etc. The efforts made by scientists of the University emerged with five new crop varieties, 35 farmers' recommendations and 27 scientific recommendations as well as 87 new technical programs were finalized during the year. Besides this, seed production programs were also taken up for different varieties of different crops. About 4,548 q nucleus/breeder seeds, 11,018 q truthful/ foundation/

certified stage seeds were produced. Besides, University also produced 55 q of bioagents - Trichoderma/ Beauveria/ Metarhizium, 2,133 liter of liquid biofertilizer, 25,784 Pheromone trap/lure, 31,529 fruit fly trap/lure and other biopesticides for farmers. During the year, about 22 new research projects were sanctioned by Government of Gujarat and other agencies. Total six patents and one design of developed technologies of the University were approved under IPR Act.

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. Wherein total 303 students participated in the different training programs. Total 92 Agro Input Dealers and 1,261 Fertilizer Dealers had completed their courses successfully. The T & V System training programs were held and 228 Extension Officers of State Department of Agriculture and Horticulture participated in different 5 training programs. 16 Khedut Shibirs were also organized in which 828 farmers / beneficiaries have participated. Through the transfer of technology (TOT) centers, 201 on-campus and 225 off-campus training programs were organized, wherein 19,749 participants were participated. Beside this, the TOT centers regularly organized extension education activities like workshops, farmers' days, agricultural exhibitions, field visits, cattle camps, farmer-scientist meetings, etc. which benefitted 1,87,141 farmers. KVKs conducted 1,235 FLDs on various crops in 474 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 total of four programs were organized under the Farm Advisory Scheme, benefiting 80,359 participants. Through the Centre of Communication Scheme, 12 Gram Kisan Samitis (GKSS) were formed, and two Khedut Shibirs were conducted with 71 farmers participating. Additionally, the Extension Education Centres organized 166 extension programs, benefiting





1,77,225 farmers.

The Farmer FIRST programme was implemented in four selected villages of Amreli district comprising of five interventions like IFS, NRM, Enterprise, Crop based and Livestock for dairy farmers. Thus, Farmer FIRST programme covered more than 2100 farmers and farm women for updating their knowledge by different extension activities.

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 literatures related to agriculture and allied fields. During the report period, 16 TV programs and 20 radio talks were given by scientists of the University. University News Bulletin "JAU News Letter" is being published quarterly by the Directorate of Extension Education. AGRISNET studio is established with objective to produce and disseminate agricultural technologies to farmers through electronic media/ format. Under LIFE (Live Interaction with Farmers' through Electronic media) two innovative programs started.

Two, LIVE YOUTUBE STREAMING were arranged, in which live program broadcast through JAU official YouTube channel. Reliance Foundation and ATMA project, Junagadh popularized these programs through their farmer related Whatsapp contacts.

The CRS broadcasts 4 hours program daily. It covers about 15 km area with a network of 55 villages and Junagadh city. To bring larger area under reach of broadcasting radio content, Android Based Mobile Application JAU iKrushi Sanhita launched in June 2021. Through audio streaming by this application, the content of Junagadh Janvani 91.2 MHz can be listened to whole world. There is big response to this App. AGRISNET studio established with objective to produce and disseminate agricultural technologies to farmers through electronic media/ format.

Ravi Krishi Mahotsav was organized by Government of Gujarat during 24th and 25th November, 2023 in all the talukas of Gujarat State. Agricultural

exhibitions, seminars and visits to model farms of Natural Farming were arranged during this programme. During this Ravi Krushi Mahotsav, 83 events were organized in 75 talukas of 10 districts of Saurashtra region. The JAU exhibited new technologies and improved practices about agriculture, horticulture, agricultural engineering and allied fields in the stalls of exhibitions in 75 talukas of Saurashtra region.

The scientists of Junagadh Agricultural University delivered lectured on "Importance of millets in food for health benefits" "Efficient use of inputs for reduction of farming costs and increase of organic carbon through organic farming", "Production of ethanol from agricultural crops" and "Improved technologies in horticulture crops" during the seminars. The Senior Agriculture Scientists were deputed as District Nodal Scientist in ten districts of Saurashtra region for coordinating the activities of JAU. During the Mahotsav, 250 Agricultural Scientists and other staff were deputed for seminars and agricultural exhibition activities. More than 66,000 farmers and farm women participated in 83 events in 10 districts of Saurashtra region.

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 programs, 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. Total 246 students were placed this year for various jobs, including both on-campus and off-campus placements. Further, 47 motivated students had also opted for self-employment. Under NSS, 1578 number (15.5 units) of volunteers participated at university level NSS camps and awareness-cum-celebration programs. Various scholarships like UG and PG fellowship, National Talent Scholarship, merit cum Means, Prime Minister Fellowship, SHODH fellowship, etc. were also provided to the students. Educational tours for students were also arranged like every year included visits of so many companies, organizations and institutes for their practical exposure. 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 4 constituent colleges and 3 polytechnics as well as research stations and extension education centers of Junagadh Agricultural University, Junagadh.

The University Library possesses around 58,712 books. These books are very valuable and helpful in studies, research and preparation for competitive examinations. It provides around 16,000 back volumes, 3,792 theses, 10 newspaper, and 900 e-books.

E-Library with 100 mbps LAN connectivity facilitates users to access online database like J-Gateplus (Complete) online which has full text journals. Commodities (CMIE) which as economical data. Our library has 990 e-books and this year we have subscribed 85 more e-books, Facility by ICAR for foreign Journals through Online Access of Journals through Consortium for e-Resources in Agriculture (CeRA) and KRISHIKOSH are available and CD-ROM databases like CAB, AGRICOLA, AGRIS. The University Library is fully automatized after the implementation of RFID system. Full time internet,

scanning and CD writing facilities are available for the students in the e-library 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. Students are provided with books of their concerned subject of their respective semesters through BOOK BANK facility, 33 more books were purchased of Agriculture Engineering faculty for the book bank. The Library runs through RFID with the software KOHA & LIBSYS.

The library renders its services to the users from 8:00 to 18:30 h. A separate Air Conditioned Reading Room is developed with the best facilities as well as good ventilation and aeration. This AC reading room accommodates approximately 100 students. The Reading Room remains open for its users from 8.00 to 23.00 hours on working days whereas 8.00 to 14.00 hours on holidays.

Junagadh Agricultural University (JAU) has established a dedicated Information Technology (IT) Cell to provide a wide range of IT resources and services to its students, faculty, research scientists, extension workers, and farmers. The IT Cell offers comprehensive support, including uninterrupted high-speed internet access across the main campus and sub-centres, email services, video conferencing, and various online platforms such as the JAU Exam Management System (JEMS), Online JAU Circulars, salary management, Mera Gaon Mera Gaurav, Online HRD/Tour program, Online PF management, student fee receipts, KVK Bill Management, CCTV surveillance, Wi-Fi access, Google apps, and Online Job application system.

JAU has a robust IT infrastructure with a more than 1 Gbps dedicated 1:1 Internet Lease Line (ILL) from multiple providers, including a notable 1000 Mbps 1:1 ILL via Railtel under the National Knowledge Network (NKN). This advanced connectivity supports



specialized applications, high-performance computing, e-libraries, virtual classrooms, and extensive databases. Additionally, the university is equipped with a 25 Mbps 1:1 ILL from BSNL.

The university's network is highly secure, featuring firewall protection, intrusion detection systems (IDS), analysers, and content filtering. With over 1,100 network points and 75+ wireless access points, JAU's campus network provides extensive coverage. Network Management Software ensures continuous monitoring and fault detection. The campus's high-speed connectivity is further supported by over 6,500 meters of fiber cable. Additionally, JAU is connected to the Gujarat State Wide Area Network (GSWAN) via optical fibre, facilitating online access to various government programs.

Furthermore, the university maintains a comprehensive surveillance system with over 800 CCTV cameras and a centralized monitoring system, while individual colleges and units have monitoring access to the cameras within their premises.

1.9 Finance and Accounts

The major sources of finance included the Government of Gujarat, Government of India, ICAR, and other agencies that provided grants through various schemes. During the reporting period, the State Government sanctioned ₹14,406.93 lakh under the non-plan budget and ₹6,922.74 lakh under the plan budget.

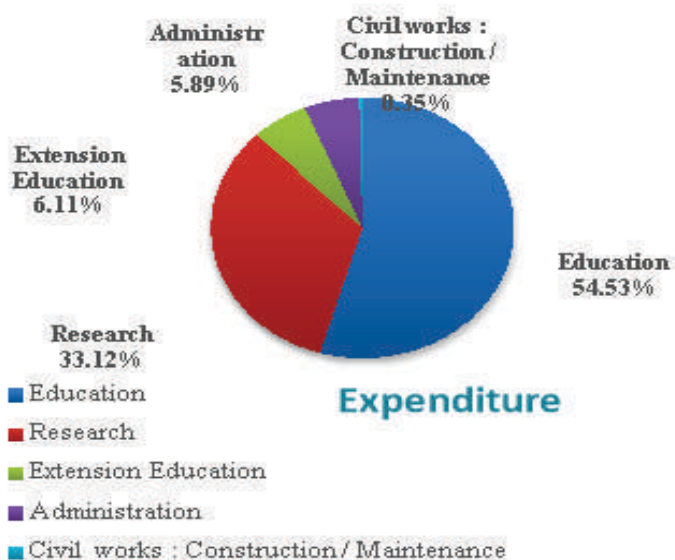
The financial sources, funds and budgets (in Lakh) Income:

Opening Balance as on 01.04.2023	9088.24
Grant Received during 2023-24	
State Government	21329.67
ICAR All India Coordinated Research Projects	3007.90
ICAR (RAW)	60.45
ICAR Adhoc	107.50

KVK	760.58
Other Agencies	725.78
N.S.S.	10.46
RKVY	99.75
University Receipts	3748.79
Total	29850.88
Expenditure	(in Lakh)
Education	14874.65
Research	9032.76
Extension Education	1667.59
Administration	1605.51
Civil works : Construction / Maintenance	94.90
Total	27275.42

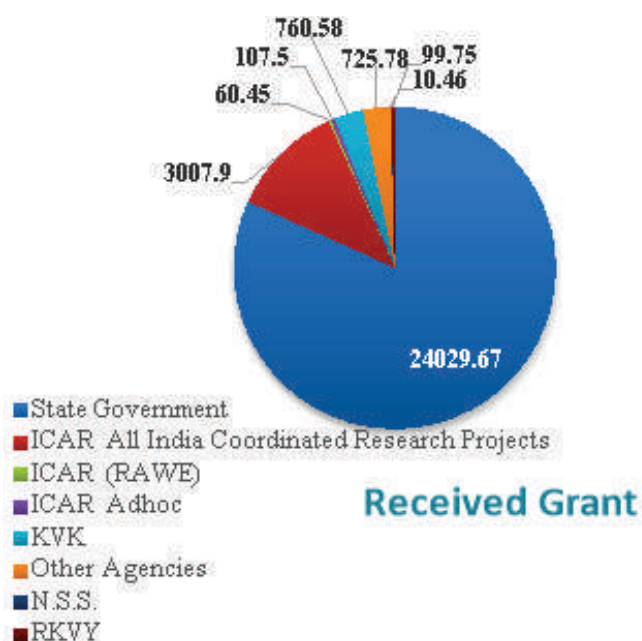
The University is entrusted with the work of Internal Audit, Local Fund Audit and AG Audit. The necessary Half Margin / Para were submitted duly to comply with the queries of the party and pursued as far as possible.

The pension cases on account of superannuating and voluntary retirement of the officers / employees from the University have been settled granting the pension / commuted pension and gratuity. Total 73 employees were retired during the



year and the payment was made to the staff / officers for their retirement benefits. The amount of 8.89.19.820/- was paid to the employees for the cases comprised of 46 Part final withdrawal and 71 special advances.

While 12,64,84,749/- was paid as final withdrawal to (68) and transfer (15) employees during current financial year. Total 200 JAU employees were get benefit of P.F. worth total 21,54,04,569/- 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 centers of the University. Total 3 civil works were completed with an outlay of 409.30 Lakhs, whereas 2 civil works are in progress with an outlay of Rs. 17.36 lakhs.



