

# INTRODUCTION



## Chapter - 1





The Junagadh Agricultural University was established on 1<sup>st</sup> May, 2004 under Gujarat Agricultural Universities (GAUs) Act-2004. On completion of its nineteenth year, Annual Report is published with detailed information about its various achievements and activities carried out during the year 2022-2023.

### 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-centre 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, Dean Faculty of Horticulture, Dean Faculty of Agricultural Engineering & Technology, Dean Faculty of Agri-Business Management, 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 and Dr. Narendra Kumar Gontia were the Vice Chancellor; Dr. H. M. Gajipara was the Director of Research & Director of Extension and Education; Dr. R. K. Mathukia, Dr. K. C. Patel, Dr. Kalpesh Kumar and Dr. P. M. Chauhan were 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, 441 students at UG level, 51 students Diploma to Degree level, 198 students at PG level and 200 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 College of Agriculture at Khapat (Porbandar). A total 202 students at diploma level, 434 students at UG level, 188 at Master level and 47 at Doctoral level have successfully completed their respective courses during the period under report.

The Eighteenth Annual Convocation was held at Junagadh on January 09, 2023. Shri Deepak P Shah, Chairman of SML Group of Companies was the chief guest. Hon'ble Governorshri of Gujarat and Chancellor of this University, Shree Acharya Devvrat, awarded as many as 578 Under Graduate and Post Graduate degrees (Table 3.7). For the academic year 2022-23, 8 Gold Medals, 53 Gold Plated Silver Medals and 1 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, 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, Natural 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 crop varieties, 36 farmers' recommendations and 26 scientific recommendations as well as 82 new technical programmes were finalised during the year. Besides this, seed production programmes were also taken up for different varieties of different crops. About 9734 q nucleus/breeder seeds, 4609 q truthful seeds, 205 q Foundation seed, 3526 q Certified stage seeds were produced. Besides, University also produced 23 q of *Trichoderma*, 61 q of *Beauveria*, 11 q *Metarhizium*, 2219 liter of liquid biofertilizer, 52235 Pheromone trap/lure, 36055 fruit fly trap/lure and other biopesticides for farmers. During the year, about 23 new research projects were sanctioned by 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. Wherein total 167 students participated in the different courses. Total 2285 Agro Input Dealers

and 957 Fertilizer Dealers had completed their courses successfully. The T & V System training programmes were held and about 197 Extension Officers of State Department of Agriculture and Horticulture participated in 06 different training programs. 12 Khedut Shibir were also organized in which 628 farmers / beneficiaries participated. Through the transfer of technology (TOT) centres, 212 on-campus and 233 off-campus training programmes were organized, wherein 18675 participants participated. Beside this, the TOT centres regularly organized extension education activities like workshops, farmers' day, agricultural exhibitions, field visits, cattle camps, Farmer scientist meetings etc. which benefitted 95875 farmers. KVKs conducted 1223 FLDs on various crops in 176.5 ha. KVKs guided farmers to solve their field level problem through personal visits and by SMS. The feedback on farmers' problems were collected and sent to concerned scientists for formulation of research programme.

Through 04 programme arranged by Farm Advisory Scheme 47563 participants were benefited. Under Centre of Communication Scheme, 11 Gram Kissan Samiti (GKSSs) were formulated and 03 Khedut Shibir were organised in which 98 farmers participated. The Extension Education Centres benefitted 99718 farmers by organising 87 extension programmes.

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 454 farm families and also 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 literature related to agriculture and allied fields. During the report period, 18 TV programme and 16 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.

LIVE YOUTUBE STREAMING, in which two live programs broadcasted through YouTube. Reliance Foundation and ATMA project, Junagadh popularized these programs through their farmer related WhatsApp contacts.

The CRS is transmitting FOUR hours program daily. It covers about 15 km area having 66 villages and Junagadh city. To bring larger area under reach of broadcasting radio content Through audio streaming by Android Based Mobile Application App, the content of Junagadh Janvani 91.2 MHz can be broadcasted all over the world. There is big response to this App. AGRISNET studio is established with objective to produce and disseminate agricultural technologies to farmers through electronic media/ format.

### 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. Total 254 students were placed this year for various jobs, including both on-campus and off-campus placements. Under NSS, 1530 number (15 units) of volunteers participated at university level NSS camps and awareness-cum-celebration programmes. 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 covered with CCTV camera.

### 1.8 University Library & Information Technology

The University Library acquaints services to the scholars, scientists and extension activists under 6 constituent colleges and 6 polytechnics as well as research stations and extension education centres of Junagadh Agricultural University, Junagadh.

The University Library possesses around 57900 books. These books are very valuable and helpful in studies, research and preparation for competitive examinations. It provides around 16000 back volumes, 3650 theses, 10 newspaper, 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 900 e-books and this year we have subscribed 75 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, 28 more books were purchased of Agriculture Engineering faculty for the book bank. The Library runs through RFID with the software KOHA & LIBSYS. Moreover JAU provides library facilities to students of Kamdhenu University, Junagadh.

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 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 bill management software, Online PF, Student Fees Receipt, KVK Bill Management, CCTV surveillance, Wi-Fi access, Google apps, Online Recruitment, etc.

JAU surges ahead with a robust 305 Mbps dedicated 1:1 Internet Lease Line (ILL) connection, sourced from diverse providers. This package features a notable 100 Mbps 1:1 ILL via Railtel under the National Knowledge Network (NKN), fuelling specialized applications, propelling high-performance computing, e-libraries, virtual classrooms, and expansive databases. Additionally, JAU has added 25 Mbps 1:1 ILL from BSNL.

The university has a highly secure network structure with Firewall, IDS, Analyzer, and content filtering. With 1000+ network points and 50+ wireless access points, the campus network offers extensive coverage. Continuous monitoring and fault detection are facilitated through Network Management Software. Over 6500 meters of fiber cable ensure high-speed connectivity. The university is additionally linked to the "Gujarat State Wide Area Network (GSWAN)" via optical fiber for online access to government programs.

The IT Cell has developed an online solution for registration and user management specifically for university purchases through the Government e-Marketplace (GeM).

University has a comprehensive surveillance setup comprising 750+ CCTV cameras and a centralized monitoring system. Additionally, individual Colleges/Units are granted monitoring privileges for the CCTV cameras within 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 Rs. 7003.41 lakh under plan and Rs. 16574.88 lakh under non-plan.

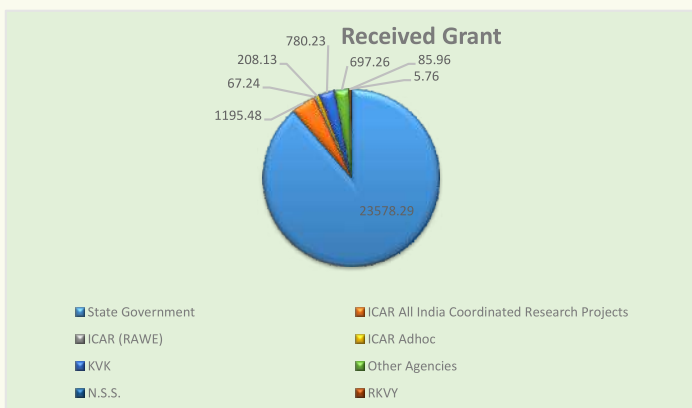
### The financial sources, Budget wise fund and expenditure (in Lakh) Income: (Year: 2022-23)

Particulars	Rs. in Lakh
Opening Balance as on 01.04.2022	7394.72
Grant Received during 2022-23	
State Government	23578.29
ICAR All India Coordinated Research Projects	1195.48
ICAR (RAWI)	67.24
ICAR Adhoc	208.13
KVK	780.23
Other Agencies	697.26
N.S.S.	5.76
RKVY	85.96
University Receipts	3028.24
<b>Total</b>	<b>29647.59</b>

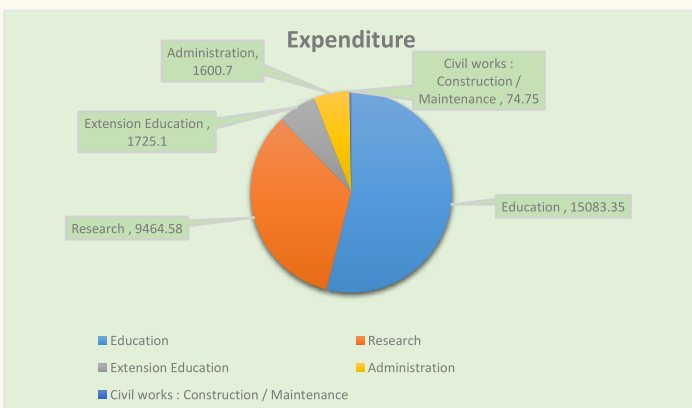
The University is entrusted with the work of Internal Audit, Local Fund Audit and AG Audit. The necessary Para/Half Margin were submitted duly to comply with the queries of the party and pursued as far as possible. Moreover, compliance with the Local fund 4 Audit paras & with A.G. Office 1 Audit paras settled during the year.

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 57 employees were retired during the year and the payment was made to the staff/officers for their retirement benefits. The amount of Rs. 9,31,89,377/- was paid to the employees for the cases comprised of 64 Part final withdrawal and 92 special advances. While Rs. 14,30,63,924/- was paid as final withdrawal to (62) and transfer (15) employees during current financial year. The 233 University employees were get benefit of P.F. worth Total Rs. 23,62,53,301/- in the financial year.





Expenditure	Rs. in Lakh
Education	15083.35
Research	9464.58
Extension Education	1725.10
Administration	1600.70
Civil works: Construction / Maintenance	74.75
<b>Total</b>	<b>27948.48</b>



### 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 Rs. 666.32 Lakhs, where as 6 civil works are in progress with an outlay of Rs. 630.75 lakhs.

